Transforming Environmental Education: Making the Renewal of the
Cultural and Environmental Commons the Focus
of Educational Reform

Revised Edition

By

C. A. Bowers

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Chapter One: Introduction
Educational reforms are being challenged as never before by social groups with competing economic and ideological interests. It should be no surprise that environmental education is increasingly at the center of these controversies, especially when the scientific underpinnings of environmental education include introducing students to the theory of evolution. With nearly fifty percent of adults in America, according to one recent survey, thinking that the theory of “intelligent design” should be taught alongside the theory of evolution, many biology teachers who also introduce environmental issues into their courses face even more controversy. In addition, there are other forces that contribute to the continued marginalization of environmental education. These include the increasing number of required professional courses in teacher education programs, the lack of environmental education professors in education departments who can promote the importance of environmental education as more than yet another elective course, a general fear of science which is being magnified by the near McCarthy-type atmosphere created by the proponents of “intelligent design,” and the long-standing tradition of viewing environmental education as the responsibility of the science teacher who often has other teaching responsibilities.

There is another reason for the marginalized status of environmental education that is often overlooked. And that is that the majority of the public still views the changes occurring in the environment as affecting other parts of the world, but unrelated to their own lives—that is, if they are even aware of global warming, the depletion of the world’s fisheries, the increasing shortage of potable water, and the loss of species and habitats. There is also a large segment of the American public that support politicians who favor free-markets, economic globalization, and who take pride in the fact that they do not read newspapers that are critical of the growing influence of corporations in shaping governmental policies—and it is these newspapers that are likely to publish articles on global warming and other environmental changes. Other Americans hold the assumption that the experts in the scientific and technology communities will overcome the disruptive affects of environmental changes. Their “science and technology will save us” attitude contributes to the malaise that characterizes the public’s attitude toward not allowing environmental concerns to interfere with their consumer-dependent lifestyle. The political reality is that if the general public, rather than a small minority, were to
make the self-renewing capacity of natural systems their main priority we would see pressure being brought on public schools and universities to make environmental education a central focus of the curriculum. This possibility is reduced by the cycle we seem unable to alter: namely that the marginalized status of environmental education in public schools and in universities contributes to the marginalized status if not outright denial in the consciousness of the public—even among the most highly educated segment of the public. This state of consciousness, in turn, ensures that there is little if any widespread public support for environmental education.

The often repeated complaint that the segregation of courses where environmental education is viewed as the exclusive responsibility of the biology teacher, or of a separate university department, may have its roots in a deeper linguistic problem. That is, “environment” is the key metaphor that frames the area of inquiry, with the result that what is outside of this frame becomes in most public schools and universities yet another area of silence. The environment metaphor also serves to designate which public school teacher and university professors have responsibility for environmental education—though some universities now have a faculty member or two in the areas of literature, history, sociology, economics, philosophy, and religion who are integrating environmental issues into their research and courses. But there are other problems with the environment metaphor.

The word “environment” has a history and thus carries forward over many generations the meaning derived from the analogy that prevailed over others that were perceived at that time as a less adequate way of understanding. In many of these historically rooted ways of understanding, the word environment was understood as needing to be brought under human control, as an economic resource to be exploited, as separate from culture, as an external phenomena that can be objectively observed and judged. More recently a small segment of the public now recognize it as fragile and capable of collapse, and as part of a moral and spiritual universe that places upon humans an ethic of self-limitation for the sake of other species and future human generations. This list of varied and conflicting meanings suggest yet another reason for the lack of consensus on the importance of environmental education. I think a strong case can be made that the way of thinking of the environment as separate from culture is the most
problematic, as it allows more exploitive ways of thinking of the environment to go unchallenged.

As public school and university professors continue to perpetuate the linguistic and thus conceptually-based separation of environment from culture, students not only have it reinforced in the classroom but also in their everyday interactions in the larger society. Indeed, thinking of the environment as something that is separate, external, and the object of individual observation is as pervasive in mainstream America as the equally misconceptualized use of the personal pronoun “I” – as in the way we often begin a verbal sentence with “I think”, “I see”, “I want” and so forth. This cultural pattern of thinking, which reinforces the misconception that separates the environment from the observer, makes the meaning of the environment as well as its value contingent upon the judgment of the individual who too often reproduces the misconceptions of earlier generations. Unfortunately, this pattern of thinking is reinforced in environmental curriculum materials, and by both school teachers and university professors.

The multiple ways of understanding the meaning of the environment, as well as the increasing politicization of the achievements of science, are likely to prevent the consensus that needs to be attained within different segments of society on the importance of understanding the nature of the environmental changes that the world is now undergoing. And without this understanding, the general public will continue to lack a reference point for assessing whether their ideas, values, and lifestyle are part of the problem, or part of the solution. A possible way out of this problem is to find a word or phrase that does not lend itself to the multiple and often conflicting ways of understanding what the “environment” stands for. A second goal would be to find the word or phrase that represents the many forms of interdependency that characterize the relationships between culture and the natural environment. The word that best achieves this goal is the “commons”, which allows for thinking about the interdependencies between different aspects of the commons when we use the phrases “cultural commons” and the “environmental commons”.

In spite of the difficulty of changing our guiding metaphors, a strong case can be made for dropping the phrase “environmental education,” and for beginning to use the phrase “commons education” – or “educating for the commons.” Not only does the
word “commons” overcome the conceptual separation of culture from environment, it also expresses the built-in tension between what is shared in common and the forces that are working to transform what remains of the non-monetized aspects of community relationships and activities into market opportunities. The use of the commons also reconnects education with the mainstream of human history. Even before the word came into existence humans understood that everyone in the community had equal access to animals, forests, streams, etc. as well the language, stories, expressive arts, and knowledge that was the basis for making and using different technologies. That is, access to what is now being referred to as the cultural and environmental commons had not been monetized. As the different belief systems of cultures developed, status systems emerged that excluded some groups from accessing the environmental commons as well as from the empowering and status conferring aspects of the cultural commons. Preventing some groups from becoming literate was an example of restricting access to the cultural commons.; and it had the effect of creating an under-class that could be exploited by the class that had full access to the full range of the cultural commons. And later still, private ownership further restricted access.

With the expansion of a money economy both the cultural and environmental commons became reduced—with the consequence that many cultural and environmental resources that previously were freely available to the members of the community (regulated in many instances by the group’s status system) now have to be paid for. Race, gender, inherited status, slaves, the poor and uneducated, and so forth, have historically influenced which aspects of the culture’s commons were freely available to all members of the community, and which were restricted. However, the critical distinction was and continues to be between what is shared in common and what has been enclosed—that is, what has become privately owned and integrated into a money economy that creates a new basis for exclusion and the poverty that follows.

Today, the process of enclosure is spreading without either moral or ideological constraints. Examples range from the transformation of the tradition of work as returned to viewing work as paid, from the difference between learning the intergenerational skills necessary to prepare a meal from locally grown vegetables to purchasing an industrially prepared meal, and from the difference between a mentoring relationship to paying
tuition or a fee in order to have access to a body of knowledge or a skill. Although some social groups still retain these traditions, the modern idea of development equates progress with bringing what remains of the cultural and environmental commons under the control of the market forces that have been made even more destructive by the expansion of global competition.

In order to understand the role that public schools and universities can play in restoring a better balance between what remains of the world’s diverse cultural and environmental commons and the colonizing nature of the industrial, consumer-centered lifestyle, we should undertake the broader challenge of educating for the cultural and environmental commons in place of the more narrowly focused environmental education. The phrase “environmental education” especially when approached from a scientific perspective, fails to take account of the interdependencies that exist between the local culture and local environment, as well as the ways in which the high-status forms of knowledge underlying mainstream Western culture continue to undermine the viability of both the cultural and environmental commons. Traditional approaches to environmental education focus on such important issues as forest ecology, preservation of wetlands, local plant and animal diversity, while the symbolic (that is, cultural) basis of environmentally destructive practices are largely ignored. This silence, which can partly be attributed to the limits of scientific knowledge, ensures that environmental problems with continue to proliferate. The major weakness of the traditional science approach to environmental education is that it does not address the systemic reasons that the rate of environmental degradation has reached a level that now exceeds what science and technology can reverse. Restoring habitats that allow some species to recover from the brink of extinction pales in significance when we consider the changes taking place in the chemistry of the world’s oceans and the rate of global warming. Because of the scale and rate of environmental changes there is a special need for the restoration of the environmental commons at all levels—and this includes strengthening the cultural practices and beliefs that have a smaller ecological footprint.

The phrase “educating for the cultural and environmental commons” is somewhat awkward, and it certainly exceeds what modern technology allows in terms of course abbreviations. However, as long as the shorter phrase of “commons education” is
understood as encompassing both the non-monetized aspects of the cultural and environmental commons, it should be used in place of environmental education.

An equally strong case can be made for substituting “commons education” for the phrase “liberal education.” If we take account of the deep cultural assumptions that are promoted in the various courses traditionally associated with a liberal education we find that they are many of the same assumptions that underlie the industrial, consumer-dependent culture that is exploiting the environment and undermining what remains of the cultural commons.

Critics of this generalization need to consider why the majority of professors in the liberal arts are still silent about the nature of the environmental crisis, and why the importance of maintaining the diversity of the world’s cultural commons either is viewed as left-wing extremism or entirely unrecognized. As I will discuss later, substituting “commons education” for “liberal education” shifts the focus from the simplistic yet ideologically driven Enlightenment idea of liberation from past ways of thinking as the primary goal of education to the idea of learning to discriminate between the forms of intergenerational knowledge that are ecologically sustainable and contribute to morally coherent communities, and the intergenerational knowledge (of which a liberal education is an example) that contributes to the colonization of other cultures and to the development of technologies and an economic system that are overshooting what the environment can sustain.

On a more strategic level, educating for the commons eliminates the current way in which non-science teachers and faculty can rationalize that their areas of academic competence are unrelated to global warming, and to the degradation of other vital environmental systems. To paraphrase an important insight of Gregory Bateson, a cultural mind-set cannot be separated from the patterns of social injustice, from the nature of the built environment, and from the pathogenic causing technologies that are introduced into the environment in the name of progress. When the main focus is on the changes occurring in the environmental commons, science teachers should also be able to help students understand how the enclosure of the cultural commons contributes to these changes. When the main focus is on the cultural commons, which would be the case with social science teachers and humanities professors, how changes in the cultural commons
influence the natural environment also need to be considered. In effect, educational reforms must overcome the artificial separations within the institutionalized bodies of knowledge that now contribute to the ignorance of so many graduates of public schools and universities about how their values and beliefs are contributing to the enclosure of the commons that leads to the poverty of others, to the degradation of the environment that they and future generations depend upon, and to the wars that are now deemed essential to ensuring our access to the resources that their wasteful lifestyle depends upon.

The commons, by its very nature, requires a radically different way of thinking from what now characterizes a modern form of consciousness. Indeed, it requires understanding aspects of culture that largely have been ignored because of the prejudices and silences reproduced in the language and thought processes we associate with being modern and progressive. In some areas of culture, the prejudices carried forward in the metaphorially-based language/thought process that each generation within the dominant culture is socialized to accept at a taken-for-granted level have become doubly destructive. In addition to the silences, the prejudices make certain ways of understanding appear reactionary and thus out-of-bounds for a socially responsible person. If teachers and professors are to provide an approach to commons education that helps to restore a sustainable balance between dependence upon the market and the non-monetized activities that make up the cultural commons, they need to rethink these prejudices as well as begin to consider what has been ignored because of the silences in their own education. The following chapters will also be used to explain how the many forms of enclosure of both the cultural and environmental commons can be introduced into the curriculum at both the public school and university level.

Chapter two provides an in-depth explanation of the nature of the cultural and environmental commons, as well as the many forms that enclosure now takes. As the ethnocentrism and other biases reinforced in public schools and universities have largely precluded studying the cultural and environmental commons as sites of resistance to the expansion of the market driven and consumer-dependent lifestyle, few people possess the conceptual understanding, and thus the language, that is necessary for making explicit either the commons they take-for-granted or the processes of enclosure that are generally represented as the latest expression of progress.
Chapter three provides an explanation of how classroom teachers and university professors can make explicit the cultural assumptions that lead to equating commons destructive innovations with progress. The chapter will also address how the language necessary for thinking about how the commons needs to be rescued from Enlightenment theorists who misunderstood the nature of traditions, conserving, and intergenerational knowledge. The chapter will be used to explain why these words need to be understood in more culturally grounded ways, and how the continued misrepresentation of what they stand for will prevent an awareness of how the revitalization of the commons contributes both to less poverty and to less environmentally destructive lives.

Chapter four will focus on how to introduce students to different aspects of the cultural commons. This requires identifying general categories of the cultural commons, such as food, technology, expressive arts, civil liberties, and traditions that can be referred to as the moral and spiritual commons. It also will explain how students at different levels in the educational process can be introduced to different aspects of the cultural commons, including the questions that need to be asked that will enable students to begin to recognize the commons in their own community. Developing the students' awareness of how they participate in the commons, and thus the communicative competence necessary for articulating the constructive and destructive aspects of the commons, also requires an awareness of how different forms of enclosure are occurring. Examples of how to enable students at different levels in the educational process to recognize the different forms of enclosure, as well as the justifying ideology, are also presented.

Chapter five provides an extended discussion of how different ideologies either marginalize or contribute to strengthening the commons. Like all forms of education that are inherently political, commons education will appear to some groups in the community as subversive of the American way of life. This charge will be made by market liberals who assume that every aspect of daily life can be turned into a niche market. They will recognize that commons-based educational reforms are intended to reduce dependence upon the money economy that is now, along with the environment, in crisis. The chapter provides suggestions for how teachers and professors can gain the support of the community by correctly identifying commons education as conserving the non-monetized
traditions in the area of food, civil liberties, craft knowledge, creative arts, and so forth. By avoiding the Orwellian language whereby extremist market liberals and Christian fundamentalists have been allowed to claim the label of conservative, commons educators will be viewed by many members of the community as raising the question of what needs to be conserved that strengthens community and reduces the adverse impact on natural systems—as well as questions about the real anti-democratic agenda of market liberal and Christian fundamentalists.

Chapter six examines why constructivist theories of learning are part of the modern-mind set that is both ethnocentric and assumes that progress should have no limitations. More specifically, it will explain why various constructivist theories of learning marginalize awareness of the commons, as well as the questions that students should be asked to consider about the different forms of enclosure and the ideology that justifies it. As commons education requires both an understanding of how most cultural patterns are learned at a taken-for-granted level of awareness, as well as the ability of students to base their reflections and insights on cultural patterns that have been made explicit, a different role for teachers will be introduced. That is, the role of the teacher/professor will be explained as that of mediating between different cultures—including the local culture of the commons and the industrial consumer dependent culture.

In effect, the collective message of the book is that the worldwide spread of poverty and the rate of global warming now make it imperative that educational reforms be directed toward strengthening the non-monetized aspects of the world’s diverse commons. These reforms should also be focused on developing the students’ communicative competence that is necessary for democratic decision making at the local level. Corporations and extremist market liberal and Christian fundamentalists have largely made a mockery of democracy of the national level. Unfortunately, they now posses the momentum that is carrying us further down the slippery slope leading to an authoritarian future that will be made even more extreme as the environmental crises leads to greater scarcity. Resistance to this trend can only come as people at the community level become serious about conserving the traditions that have contributed to socially just and mutually supportive alternatives to consumerism. The educational
challenge is to enable students to become aware of what needs to be conserved and what needs to be reformed or changed entirely.

**Chapter 2 Integrating Environmental Education into Commons Education**

The problem with a narrow view of environmental education, even one that encourages students to investigate the connections between how political decision-making at the community level affects changes in the viability of local habitats and that lead to solutions to such problems as municipal solid waste and air pollution, is that the dominant cultural ways of thinking remain unaddressed. Students in an environmental education class may learn how to monitor the local recycling program, the changes in the quality of local streams, and to map the green spaces in the community. At the same time they will be exposed to the cultural messages communicated through various media, by the super-sized houses that are being built in their community and by the super-sized SUVs that crowd their roads. They will have reinforced in a variety of ways the idea that personal success, along with obtaining a higher social status and the promise of happiness are achieved by living a consumer dependent lifestyle.

In spite of their good intentions, few environmental educators have the conceptual background necessary for helping students to understand the fundamental changes now taking place in American society. The reasons for why the hyper-consumerism is having such an adverse impact on the natural systems, which is not studied in most environmental education classes, is evidenced in the fact that the average of personal credit card debt is in the neighborhood of seven to eight thousand dollars, that lifetime employment is fast becoming a thing of the past as corporations shift more of their operations to low-wage regions of the world, and that what remains of the cultural and environmental commons are being rapidly incorporated into the industrial system—thus transforming what previously was freely available to members of the community into commodities and services that must now be purchased. In addition, the increasing loss of traditional governmental and corporate safety nets for the retired and the unemployed, along with the increasing cost of living associated with overshooting the availability of natural resources such as water and petroleum, are just a few of the problems that have their roots in the mismatch between the sustaining capacity of natural systems and the deep cultural assumptions that well-intentioned environmental education teachers are not addressing. In effect,
these cultural trends now require a more expanded approach to learning about the prospects of the cultural and natural environment.

Many environmental educators are limited by virtue of their own education to dealing with the symptoms and are unable to help students understand the multiple ways that the patterns of thinking and values that came into existence before there was an awareness of environmental limits are no longer ecologically viable. As mentioned earlier, the word environment is a metaphor that is too often associated with the plants, animals, oceans, streams, forests, weather patterns, and so forth. That the metaphor could be expanded to include both natural systems as well as cultural beliefs and practices is still too steep of a conceptual hill for most Americans, including environmental educators, to climb. When the analogs that are the basis of a conventional understanding of what a word means cannot be easily changed, then the next strategy is to change the metaphor—that is, to identify a different word (metaphor) that is more inclusive. As suggested in the earlier chapter, the use of “cultural and environmental commons” are words that bring into focus relationships, processes, and possibilities in ways that the word “environment” fails to do. And as we begin to understand just how complex these relationships, processes, and possibilities are we can then begin to see how the curriculum at both the public school and university levels can be changed in ways that move beyond critical analysis and short-term efforts to reverse environmental damage to helping students recognize the community-centered possibilities that represent alternatives to a consumer-dependent lifestyle.

The task here is to obtain an in depth understanding of what is meant by the cultural commons, including how the forces of modern industrial culture are enclosing both the cultural and environmental commons. With this understanding, it will be easier to recognize the educational reforms that will enable students to understand how revitalizing the cultural commons is an alternative to the further globalization of the industrial culture that continues to create the illusion of progress and plenitude while forcing more people into a state of poverty and hopelessness. As it is easy to think of the commons in such general terms that what the metaphor refers to loses its potential explanatory power, I will provide a general definition—which will then serve as a basis for identifying the many examples of the cultural commons, as well as the many ways in which the process of enclosure is occurring. The commons, even when the word is used in an inclusive way that includes both the cultural and environmental commons, refers to what is shared by members of the local community largely outside the framework of a money
economy. As mentioned before, different cultures may have developed traditions that limit who has free access and use of different aspects of the cultural and environmental commons. This aspect of the commons— that is, who has the free use and who is restricted— should be an important part of the curriculum. Helping students understand that the prejudices and narratives that legitimate the privileged status of some individuals and groups are also part of the commons of some cultures will help them to avoid romanticizing the commons. This is the area of inquiry that can most effectively be addressed by classroom teachers and professors who possess a non-science background. For now, however, it is important to specify the general characteristics of the commons.

The key characteristics of the cultural and environmental commons include the practice of local decision making, which in many cultures takes the form of local democracy. This approach to the politics of the local cultural and environmental commons requires a strong sense of accountability to the other members of the community. In addition, there is the accountability that comes from having to live with the disruptive effects of actions that degrade the natural commons. Unlike when decisions are made within the factory that is located upstream from the community, where the consequences of having to drink the contaminated water are not shared by the people who made the decision to release the toxic industrial waste into the river, people who rely upon the environmental commons for food, water, and other materials have to live with the consequences of their actions. Who makes the decisions about the use of the cultural and environmental commons, and who has to live with the consequences, become especially important to understanding the fundamental changes that result from the enclosure of the commons.

Other key characteristics include the following: what constitutes the cultural and environmental commons will vary from culture to culture and from bioregion to bioregion. Secondly, the cultural and environmental commons are, for the most part, not privately owned. Equally important is that access is not dependent upon a monetized relationship. Although in modern cultures, where there are few aspects of the cultural commons that at some point do not require the use of materials, technologies, products, skills that have been purchased, the overriding point is that the examples of the cultural commons that will shortly be given reduce the dependency upon what has to be purchased while, at the same time, place greater emphasis on the
development of personal skills, interdependent relationships, and the non-monetized aspects of experience.

The enclosure of the cultural and environmental commons occurs when privatization takes place—which may be the result of a social status system, and an ideology that makes private ownership a public virtue. Enclosure may also involve the transformation of what previously was produced by hand or the outcome of some form of creative activity into a manufactured commodity or product that has to be purchased. The monetizing and privatizing of the cultural commons may be influenced by a credentialing system that limits who has the right to practice certain skills and to provide expert advice to others—for a fee. The current extension of the patent system is an example of how an ideology, in this case market liberalism, can further undermine the commons by extending private ownership and the logic of the market to include what individuals write and create. Legally, if a person wants to use what now falls under patent law, such as taking a picture of another person’s art or quoting their writing, they may be forced to pay a fee. In the West, the trend is for enclosure to take the form of private ownership by individuals or corporations where they are increasingly less accountable to the members of the community who are affected by their decisions. This trend is also being extended to the patenting of indigenous knowledge of the medicinal characteristics of plants.

Enclosure may take other forms that go largely unrecognized by the members of the community until it is too late to resist. It may take the form of certain words and ways of thinking disappearing under the pressure of new words and ways of thinking that are considered to be more current and fashionable. For example, the influence of computer mediated thinking and communicating has led to the loss of certain words such as wisdom and knowledge—which have been replaced by data and information (which have entirely different meanings). The increasing widespread idea that individuals own ideas and artistic creations, even what they put up on the Internet, has contributed to further marginalizing the language (words and concepts) that are necessary to talking and thinking about the commons. New technologies, which are given legitimacy by the myth of progress, have led to the enclosure of a wide range of practices, forms of knowledge, and relationships that were previously part of the cultural commons. For example, mentoring relationships and other face-to-face ways of sharing knowledge and skills are being increasingly replaced by the information presented in the printed word appearing on the computer screen or modeled on videos and DVDs. Ideologies also have different impacts on which
aspects of a culture’s commons will be transformed into a niche market or lost entirely as a result of developments in other cultures where new technologies are being developed. The main distinguishing feature is that the cultural and environmental commons are largely free of monetized forms of dependency while what has been enclosed, particularly in the West and in cultures influenced by the Western approach to development, involve dependency upon a money economy—and thus access to paid work that is rapidly disappearing under the pressure of automation, outsourcing, and downsizing.

The distinction between the commons and the process of enclosure needs to be understood in ways that reflect common sense—rather than as conceptual abstractions that present clear distinctions that are divorced from everyday realities. That is, certain modern forms of the environmental commons include national parks, forests and range land controlled by the federal and state governments, municipal water systems, and public highways. In most cases, access to these commons is freely available to the public, and are monetized to the extent that revenues have to be raised for maintenance of the service. The current efforts by market liberal members of Congress to allow individuals and corporations to purchase public lands represents the process of enclosure, and stands in marked contrast to the environmental commons that are controlled by governmental bodies that are still responsive, even if slowly, to public opinion. Just as in other relationships and activities within the cultural commons, such as a mentoring relationship and using carpentry skills to help a neighbor, there may be a limited involvement in the money economy; but it is not the main characteristic. The forms of enclosure that will be the focus here are driven by the desire to make a profit, to expand markets, and to create more dependency upon what is manufactured or presented as the service of an expert. To make this point in another way, the market-driven forms of enclosure, where profits are the primary concern, are based on a mind-set that views all traditions of community self-sufficiency and local democracy as obstacles that must be overturned. The authority that the World Trade Organization has for overturning legislation at the state or federal level that would restrict the activities of corporations is a prime example of enclosure.

The metaphor of the commons is important for a number of reasons that go beyond the obvious reference to what is shared in common. One of the most important is that it has a built in critique of what threatens the basis of community—namely, the process of enclosure, with its emphasis on privatization and profits. There is another characteristic of the cultural and
environmental commons that makes protecting the cultural and environmental commons from the profit-driven forms of enclosure extremely difficult. For example, if the language necessary for identifying and understanding the community strengthening relationships has been marginalized, and even represented as reactionary by self-identified “progressive” individuals who identify either with market-liberals or with the social justice liberals who share many of the cultural assumptions that lead to promoting the further expansion of the industrial, consumer-dependent culture, it then becomes extremely difficult to introduce the marginalized or missing vocabulary into the curriculum of the public schools and universities. The current misuse of our two most prominent political metaphors, “liberalism” and “conservatism,” further complicates attempts to identify what needs to be conserved in this era of ecological limits.

Educational reforms that attempt to make the cultural and environmental commons a central focus of the public school and university curricula face a particularly difficult challenge. The difficulty is partly related to the lack of the vocabulary and theoretical frameworks necessary for making explicit the long-term implications of revitalizing the cultural and environmental commons. It is also related to the largely taken-for-granted way in which people participate in the patterns and traditions of the cultural commons. In sharing a meal prepared by grandparents or in engaging in a conversation with members of the community, important knowledge is passed from generation to generation that contributes to self-sufficiency and mutual reliance. It may take the form of learning whether the length of the local growing season is adequate for planting a particular variety of tomato, the rules and moral norms that govern participation in a game of chess, how wood from a particular tree will resist pests and how it should be attached to a building in a way that reduces the damaging effects of rain, where to site a new house in order to be protected from the summer heat, and so forth. These forms of knowledge are passed along in conversations that may be sources of pleasure and intellectual stimulation. However, they may become lost under the pressure of enclosure that requires a different form of learning, behaviors, and social relationships. For example, when I purchased a prefabricated set of cabinets for my garage, I had to read the instructions, and to purchase several new tools in order to assemble the unit. The social relationships were limited to interacting with the clerk at the local hardware store. On the other hand if I had taken the time to build it myself, I might have asked my neighbor about whether using a mortise and tenon was the best approach to constructing the drawers. This conversation would have strengthened our social bonds—and the sense that the
neighbor could come to me about solving a problem that he might have. In this example, which could be multiplied many times over, behaviors and expectations dictated by the market involved learning to become dependent upon what the market makes available (and requires) rather then developing the skills and mutual support systems within the community that reduce the need to participate in a money economy.

The special challenge facing educational reformers is how to introduce students to the background concepts and vocabulary that will enable them to make explicit the patterns of the cultural and environmental commons that are not recognized because of their taken-for-granted status, and that do not have the high-status visibility that results from media advertising. There is also the special challenge that goes beyond that of helping the students to recognize the non-monetized relationships and activities that are part of their daily experience; and that is to become aware of what is being lost when different aspects of the cultural commons they experience at a taken-for-granted level become enclosed. The many ways in which the daily cycle of work and consumerism promotes a high-pressure and fast-paced lifestyle too often leads to viewing new consumer products as yet another example of how the market adds to the conveniences of everyday life. Thus, the packaged and chemically engineered breakfast cereal and the industrial packaged lunch that the child takes to school, as well as the iPod and the video games that are a constant source of entertainment, are seen as conveniences and increasingly as necessities--and thus are yet another expression of technological and market-driven progress. Seldom recognized are the relationships, development of personal skills, and the formation of an identity and sense of self-worth that comes from participating in an intergenerationally connected community that is being lost as a result of basing more of daily experience on what has to be purchased,

In effect, one of the most challenging tasks that educators at all levels face is in encouraging students to recognize how the enclosure of what remains of the cultural and environmental commons they still unconsciously rely upon is driving them into a double bind where both the increasing failures of the market system and the loss of the knowledge and skills that accompany the further enclosure of the commons will create forms of dependency that can no longer be met, and which then leads to increased levels of poverty and helplessness. The poor diets, sedentary lifestyle, and increased reliance upon drugs, are now creating a double bind as people are losing their health benefits and are facing greater unemployment due to changes in the global economy. Both the poor diet as well the lack of awareness of physical activities might
have been avoided by participating in the activities that strengthen the mutual support systems of the cultural commons. Ironically, a consumer-dependent existence reinforces a more solitary existence where the television too often becomes the main source of social life outside of the work environment and the encounters with the sales clerk. This solitary existence, in turn, reduces the opportunity to learn how to use the collective knowledge of the community in growing vegetables and in preparing healthy meals, in learning about the activities in the community that are a source of physical exercise—such as helping others who need house repairs, participating in community gardening projects, helping to restore degraded habitats, taking walks with others, participating in local arts programs, and so forth.

Education that contributes both to a sustainable cultural and environmental commons involves going against the grain in how most students have being conditioned to think. The double bind that needs to be addressed in commons education can be seen in how many people already living in poverty continue to rely upon expensive industrially prepared food rather than utilizing the less expensive and more nutritious basic ingredients. The passing on of intergenerational knowledge of recipes that rely upon the use of fresh vegetables from the garden or from the community garden, as well as inexpensive sources of protein, may have been a casualty of an intergenerational condition of poverty and racism. This lack of knowledge of how to rely upon the combination of local sources of food and the intergenerational knowledge that developed prior to the mass commercialization of food is yet another expression of enclosure.

In order to avoid the misconception that any discussion of the commons represents an example of romantic thinking about the need to return to a pre-industrial past, it is necessary to identify contemporary examples of how different forms of enclosure undermine relationships, skills, and intergenerational knowledge that are still part of life in the world’s diverse communities. The focus here will be on clarifying how the process of enclosure (monetizing and privatizing) undermines the mutual support and self-sufficiency of individuals—and thus of the community. It needs to be kept in mind that these examples should not be generalized to all cultures. Differences in cultural ways of thinking and in status systems may lead to different forms of enclosure. At the same time, when the process of enclosure is a result of the expansion of the West’s industrial/market system, such as occurs when American corporations set up their factories in non-Western countries, the intergenerational knowledge of how to live less money-dependent lives is being lost. Young workers who are required to live in factory dorms and work
10 to 12 hours a day, six days a week, are largely cut-off from the intergenerational knowledge of their communities. A different form of enclosure can be seen in the displacement of the narratives that were the source of the environmental ethic and character/identity formation of Western Apache youth by the increased reliance on television and electronic games. Another example of enclosure, which is becoming more widespread, is the way in which the Mexican compesinos have been displaced from their traditional plots of land and from the intergenerational knowledge that was the basis of a subsistence life (forcing them into the poverty of an urban existence) by the adoption of economic policies dictated by NAFTA. Other forms of enclosure could be easily cited.

In the urban and rural areas of North America, which vary widely in geography and local culture, there are several examples that highlight how the process of enclosure has a ripple effect that spreads through community relationships and results in limiting the development of different individual competencies. The process of enclosure generally has more than one consequence in terms of loss—which means it seldom leads to creating a single form of dependency. Rather, its impact spreads throughout the community in multiple ways that often go unnoticed—partly because the widely held myth of progress leads to focusing attention on current and anticipated changes and partly because the accumulated effect of becoming less self-sufficient and thus more dependent upon a money economy does not really hit home until the credit cards have been maxed-out and bankruptcy has to be declared. The focus here will be on clarifying the ripple effect that contributes to the dependency of the individual on further consumerism, and the loss of mutual support and interactions that are essential to the patterns of reciprocity within communities.

Perhaps the examples that will be most easily recognized within different cultures is what happens when the complex set of traditions that underlie the growing and preparation of local foods are replaced by becoming dependent upon the industrially prepared foods found in supermarkets and fast-food restaurants. Meals prepared from locally grown vegetables and animals requires participating in a complex ecology of human and environmental relationships that does not exist when meals are prepared by low-paid workers on the assembly line in a McDonald’s or the ingredients are purchased from a supermarket. As we consider three different possibilities (and in reality there is often a mix of all three) we can see the degree of enclosure (that is the degree of dependence) connected with all three. The person who finds a fast food
restaurant convenient in terms of saving time and eliminating potentially complicated social relationships exchanges money earned generally at a job that offers little opportunity for personal development for the equally sterile social experience of eating alone and watching others consume the same chemically altered food. What is being enclosed (and in this case limited in terms of development) can be seen when a comparison is made with the person whose meals are part of a complex set of interdependent social relations and which lead to meals that are nutritious and a source of enjoyment—perhaps even aesthetically pleasing. The social relationships go well beyond the hurried clerk in the fast food restaurant to include interactions with the local farmers who are selling their produce at the market where friends and neighbors are likely to be encountered.

Other relationships include the members of the family and friends that participate in interesting conversations while sharing the meal; and if not interesting conversations, at least an opportunity for sharing the daily experiences with others. The recipes as well as the skill necessary for bringing all the elements of the meal to the table in their traditional order involves learning from the older members of the family or from friends who share what they learned from their own culinary mistakes. What are the right ingredients for a light pie crust? How long are different forms of rice to be left in a boiling state? What other foods and fruits complement a curry dish? What vegetables need to be included to ensure a healthy diet, and what combinations are good sources of protein? The knowledge necessary for a home-prepared meal expands as changes in the seasons occur and different combinations of food become available. And then there is the knowledge of where different wild fruits can be found as well as who grows the best cultivated varieties. What recipe works best for preserving cherries for the long winter months? Which farmers grow organic vegetables and chemically-free meat, and how does buying locally provide them with financial support? When one is dependent upon industrially prepared meals, there is no need to learn about any of the above—which then leads to being increasingly dependent upon chemically engineered foods that contribute to the excessive intake of salt and sugar, as well as the other chemicals that are intended to make the food look more inviting—and to extend its shelf-life.

There is another difference between what is becoming known as the “slow food” movement and the industrially prepared meals that has to do with acquiring a different form of knowledge that leads to acting in a more ecologically responsible way. The fast food chains, as
well as most of the foods purchased in the supermarkets, are part of the industrial approach to agriculture that is dependent upon the use of pesticides and fertilizers that damage the soil, including the local aquifers and nearby streams. In effect, purchasing the canned fruit grown by giant agri-businesses in California, the strawberries flown in from Mexico during the winter months, the breakfast cereals made from genetically altered corn, and the chickens that are processed by migrant workers who are subjected to dangerous working conditions, and so forth, involves a different form of responsibility. The acquiring, preparation, and sharing of food within the local, intergenerationally connected community builds trust and a personal sense of moral reciprocity by all the participants. By way of contrast, the consumer of industrially prepared and processed food is highly unlikely to take responsibility for how it degrades the environment, and for how the laborers are exploited in terms of low wages and exposure to dangerous chemicals. In reducing the human relationship to that of a consumer encountering a check-out clerk, the likelihood that the complex set of relationships and forms of interdependencies that enable the individual to meet the need for a healthy diet and stimulating social relationships will be further reduced. It’s much less time consuming just to go to a fast food outlet or to the grocery store—which in turn leaves more time to watch television and to engage in more shopping.

The point that Robert Putnam makes in Making Democracy Work (1993) is that the face-to-face encounters with other members of the community who are dealing with different economic and social challenges, who have different ways of thinking, and who have different lifestyles, are essential to a political process that takes the interests of a diverse community into account. What is seldom recognized is how the cultural commons is diminished when the production and sharing of food becomes reduced to monetized relationships. The increasing social isolation that comes with an increase in monetized relationships may be experienced by the individual as simply another characteristic of living in a modern society that seems to fit the other individually-centered experiences that accompany the use of computers, iPods, television, video games, and the chief mode of transportation—the ubiquitous car.

We find similar patterns when considering examples of how the increasing dependence upon the industrial-based production and consumerism impacts the cultural and environmental commons. One of the more important ones that justifies expanding beyond the traditional approaches of environmental education is the way in which the sense of personal responsibility is radically diminished. In effect, dependence upon monetized relationships reduces the individual’s
sense of moral responsibility—transforming a sense of responsibility that takes account of the local producers in the community, as well as for the impact on the local natural systems, to a instrumental quest for what meets the individual’s immediate need. In purchasing bottled water, the focus of responsibility is highly personal. Few of the progressive-minded individuals who are seemingly always in possession of bottled water give any thought to where the water comes from, and to whether the corporations that produced it are exploiting (enclosing) the aquifer or stream from which it is taken.

Similarly, as the increased reliance upon computer mediated thought and communication becomes more widespread, there are few individuals who think of the impact of the technology upon the cultural commons—or of the impact on the environmental commons when the computer becomes obsolete and is discarded along with all the toxic materials that went into its manufacture. Again, responsibility for the cultural commons is largely reduced to the instrumental and subjectively determined needs of the individual. The enclosure of the airwaves by media corporations has led to a similar state of individual indifference for how the airwaves have been taken over for commercial purposes. A strong case can be made that the role that the media corporations now plays in the enclosure of the cultural commons contributes to the widespread acceptance on the part of the general public that making a profit is what is important. How this impacts the mutual support systems of the cultural and environmental commons is often not even considered. At the same time the business bias of most media outlets makes it possible for a large segment of the population to restrict their reading and viewing to those media outlets that reinforce their ideological orientation—which primarily is focused on governmental policies that promote the further expansion of markets. I shall later consider how the market-liberal and fundamentalist Christian inspired ideologies have an adverse impact on the cultural and environmental commons. For now it is important to highlight several other examples of enclosure that have largely gone unnoticed by educators at all levels, as well as by the general public.

The study that reported sometime ago about the ability of youth to identify the logos of many corporations while being unable to identify the names of local plants brings out yet another aspect of enclosure that has resulted from the increasingly dominant role that the industrial, consumer-oriented culture plays in shaping relationships and ways of thinking in society. The logos are part of the visual language system that corporations, and the media that promotes their interests, use to promote what they want to become the taken-for-granted way of thinking and
communicating. In addition to the logos, corporations and the market-liberal ideology they promote reinforce the deeper cultural assumptions that were discussed earlier: the idea that a state of constant change represents a linear form of progress (thus eliminating the need to think about the importance of what aspects of the cultural and environmental commons are being undermined); the idea that individuals are the basic social unit (thus that they have no responsible to the larger commons but only to meeting their immediate interests); the idea that this is a human-centered world (thus reducing the environment to that of an exploitable resource); the idea that a market and technologically-based culture represents the highest stage of development (thus leading to the idea that this form of culture should be imposed, in the name of democracy, upon the world’s other cultures).

What is important about this limited vocabulary, and the deep cultural assumptions that are the basis of the interpretative frameworks that provide the conceptual and moral coherence to the use of this vocabulary, is that it excludes for the majority of the American people the vocabulary that enables them to be aware of the aspects of the cultural and environmental commons they still unconsciously depend upon. To make the point more directly, the language and the deep cultural assumptions that support the cultural forces that are further enclosing the commons also marginalize the vocabulary and concepts that are necessary for articulating why the commons are vital to the present and future prospects of humanity—and to sustaining the natural systems we depend upon. To cite examples mentioned earlier, in order to think about the importance of what is being lost as more aspects of daily life are integrated in the market system it is important to have a complex understanding of the nature of traditions, to have a more explicit awareness of the traditions and ways of thinking that contribute to an interdependent community, and to be able to recognize how the different forms of intergenerational knowledge and mutual support systems provide alternatives to being dependent upon monetized approaches to meeting daily needs. The vocabulary and concepts that are missing in the media, in what is learned in our educational institutions, and in most everyday conversations, include such words and phrases as the “commons,” “ecojustice” “intergenerational knowledge,” “moral reciprocity,” “community self-sufficiency,” “responsibility for future generations,” “conserving the moral and institutional foundations of local democracy,” “diversity of the world’s cultural and environmental commons.”

Ironically, the vocabulary that serves the interests of the industrial culture that can only expand as a specific form of individual subjectivity is formed by the media and our educational
institutions is the vocabulary of both market and social-justice liberalism. This vocabulary includes “progress,” “freedom,” “emancipation,” “individualism,” “democracy” (which is to be based on the Western form of individualism), “critical reflection” (which is to lead to change), “overcoming oppression” (which is assumed to be both intergenerational knowledge as well as forms of social injustice), and, more recently, “globalization.” The market-liberals think of globalization in terms of integrating all of the world’s culture into the Western model of free markets that works to the advantage of the transnational corporations. The social justice liberals also think of globalization, but as transforming the world’s cultures in ways that fit their understanding of a progressive, individually-centered, change-oriented, and equal-opportunity centered lifestyle that they are striving to attain in the West. Equal opportunity is understood by most social justice liberals as occurring in employment, as consumers, and as participating in the political process—all of which are largely controlled by the market-liberals who are bent on expanding economic opportunities by further enclosing what remains of the commons.

The increasing dominance of a consumer-dependent lifestyle for Americans who have not already fallen into poverty, along with the failure of the educational institutions to help students understand the importance of the cultural and environmental commons to living less money-dependent lifestyles, have resulted in reducing resistance to the further monetization and privatization of both the cultural and environmental commons. The enclosure of the language that supports the renewal of the cultural commons, of the privacy that has been enclosed by the use of computers by corporations and by government, of the airwaves by media corporations, of the expressive arts and craft knowledge by automation and the selling of super stars, of healing practices by the health care industry (including the pharmaceutical companies that create images of diseases in order to market their new drugs), are now accepted by the majority of the public as the latest expressions of progress. Silence has displaced most substantive expressions of resistance—that is, resistance that is based on an understanding that local democracy, informed about the mutual support systems and intergenerational alternatives to a money-dependent existence, is necessary to strengthening the local economy—which may become more oriented toward barter relationships, including the exchange of services and skills. The point that has been demonstrated as some members of the middle class have dropped out of the market dominated culture in order to pursue what is referred to as voluntary simplicity is that involvement in mutual
support activities within the community improves the quality of life. This, in turn, makes dependence on the need for a high salary and the consumerism it leads to appear less satisfying.

As I have raised the question of why there is so little resistance to the enclosure of the cultural and environmental commons, such as the loss of privacy, the monetization of health care and entertainment, the displacement of craft knowledge and skill by automation and outsourcing, the industrialization of our food supply, and so forth, it is also necessary to ask why there has been so little resistance to the market-liberal policies of President George W. Bush’s administration, and to the increasing influence that such international organizations as the World Trade Organization have over local, state, and national policy decisions. The WTO is the most powerful organization bent on overturning local barriers to the further expansion of the market system—and to destroying what remains of the cultural and environmental commons. A corporation can take its complaint against local and federal laws that are designed to protect local interests that range from protecting the environment to protecting the health of the community, and which the corporation views as restricting its right to set up operations and make a profit, to the decision-making body of the WTO. The decision, which generally reflects the market-liberal idea that there should be no limitations on the expansion of the free-enterprise system and thus to the further enclosure of the commons, may involve such huge penalties that the corporation either is allowed to go ahead or it receives as compensation the profits it claims it would have made.

Aside from a small group of environmentalists and people concerned with the anti-democratic and community destructive implications of this world-governing body, the general public (including educators at all levels) has remained passive. Their silence about this fundamental transfer of economic and political power to the WTO, which represents the interests of transnational corporations and such special interest groups as the International Chamber of Commerce Association, is yet another instance of the public’s failure to protect the commons that they and future generations depend upon.

Given the increasing rate of destruction of the cultural and environmental commons in America, even as members of local communities find personal meaning and mutual support in keeping alive a wide range of the traditions of the cultural commons, the question that arises is: “How can public school teachers and university professors help to halt the further enclosure of the cultural and environmental commons by what is learned in the classroom?” To ask the question in a way that brings the traditional idea of environmental education back into the discussion: How
can formal education help students recognize how the revitalization of the cultural commons is vital to strengthening the self-renewing capacity of the natural systems that have been the traditional focus of environmental education classes?” More specifically, “What reforms are needed at both the public school and university level that will contribute to the communicative competence needed for conserving the cultural and environmental commons.” We shall now turn to the task of explaining how it can be done in spite of the historical and ideological forces that are working against it.

Chapter 3: Teaching Sustainable Cultural Assumptions

The science-dominated approaches to environmental education are gradually being transformed in ways that introduce students to such issues as how local community politics are related to environmental issues. This is a positive step, but it still leaves students uninformed about the nature of the cultural commons—and how they are being further enclosed. In a few elementary and middle schools students are introduced to what is now called “slow food”. That is, they are learning to care for vegetable gardens, to prepare meals that utilize the vegetables from the school gardens, and to share the food with the needy in the community. In other middle and high schools spread throughout the country, and located mostly in rural areas, students are learning environmental stewardship through involvement in community-centered environmental problem solving. Students are working with other members of the community in addressing such issues as restoring the local watershed, promoting more ecologically sound approaches to waste disposal, mapping the green areas of the community, and so forth. In effect, what is called “place-based learning” involves students in the participatory decision-making process that was envisioned by John Dewey where the separation between democratic problem solving in the community and what was learned in the classroom would disappear. At the university level, while environmental education (which does not go by that name) is most widespread in the various sciences. Faculty in other disciplines are beginning to address environmental issues, with most universities now having a faculty member or two in such areas as literature, philosophy, history, economics, sociology, anthropology, religious studies and even in professional schools such as business, who make environmental issues the main focus of their teaching and writing.
Two observations need to be kept in mind when considering the extent that public schools and universities have become centers of ecologically sustainable learning and living. The first is that environmentally oriented classroom teachers and university professors are still a distinct minority within their public school and academic department (with the exception of a few universities where environmental issues are the main focus of the department). The second observation is that these positive and well-intentioned approaches to learning about environmental issues are generally not based on a careful examination of the largely taken-for-granted cultural assumptions that are also shared by the industrial culture. The result is that students are left with a double-bind way of thinking: they are able to identify some areas of ecologically problematic ways of thinking but are unable to recognize that sustainable alternatives cannot be based on the liberal assumptions about the progressive nature of change, the autonomous individual, and the ethnocentrism that has been a hallmark of both market and social justice liberalism. As the problem of double bind thinking is so difficult to recognize by people who are caught in its matrix, the following examples may be helpful.

The basic issue is whether the language of liberalism carries forward the prejudices (the conceptual and moral pre-dispositions) that not only make it difficult to think and communicate about the cultural commons—but is in itself an anti-commons language. In *The Rights of Nature* (1989), the environmental historian Roderick F. Nash ignored the evidence of how liberal assumptions were relied upon to give conceptual and moral legitimacy to the Industrial Revolution when making the following claim—which most environmentalists today fail to question. According to Nash,

The alleged subversiveness of environmental ethics should be tempered with the recognition that its goal is the implementation of liberal values as old as the republic. This may not make modern environmentalism less radical, but it does place it more squarely in the mainstream of American liberalism, which, after all, has had its revolutionary moments. P. 12

More recently, George Lakoff, a linguist and author of the best selling book, *Don’t Think of an Elephant: Know Your Values and Frame the Debate* (2004), argues that environmentalists are in the progressive tradition of thinking. My extended critique of Lakoff’s misconceptions, which can be found in the Afterword of this book, is based on his lack of knowledge of the history of conservative thinking that can be traced back to Edmund Burke and to such...
contemporary environmental conservative thinkers as Wendell Berry and Vandana Shiva. It is also clear that he lacks knowledge of liberal theorists such as John Locke, Adam Smith, and John Stuart Mill. Like Nash, Lakoff engages in double bind thinking when he suggests that environmentalists should identify with progressive values. For him, “progressive” represents the opposite of the conservatism that he mis-identifies with Adam Smith and the CATO Institute. Another philosopher who has written on the metaphorical basis of thinking responded to my criticism of Lakoff by suggesting that “progressive environmentalism” does not involve conceptual confusion. The larger point here, the one that is especially relevant to understanding the mixed messages communicated in public schools and universities, is that basing the study of environmental/cultural issues on a taken-for-granted liberal conceptual framework is one of the primary reasons that so little attention is given to learning about the nature and importance of the world’s diverse cultural commons—and the ways in which modern science, technology, and “progressive” and “liberal” ways of thinking have contributed to the enclosure of the commons.

Commons education needs to be a major focus of attention at both the public school and university levels. This suggestion may sound absurd to the majority of educators who have not even heard of the commons, or whose knowledge is limited to the ethnocentric-based misrepresentations found in Garrett Hardin’s “The Tragedy of the Commons.” In order for commons education to avoid the problem of double bind thinking that promotes the cultural assumptions that underlie the West’s industrial/consumer dependent culture that is now being aggressively globalized, it will be necessary to help students recognize the differences between ecologically sustainable and unsustainable assumptions. This may appear as an impossible task, but when students begin to understand how language carries forward over many generations the taken-for-granted assumptions of earlier times, such as patriarchy and anthropocentrism, they may then be more receptive to adopting the language that best describes the relationships, interdependencies, and activities within their communities that are marginalized by the market and social justice language learned in public schools and universities. An example of how a privileged vocabulary marginalizes a person’s actual experience to the point where it is largely repressed can be seen in how the word “literacy” has become the taken-for-granted standard of achievement in the early grades—and how this has made examining the differences between the spoken and written word irrelevant in the student’s education. The complex ways in which face-to-face communication strengthens the commons are ignored in favor of a decontextualized form
of communication and thinking that, while having other advantages, contributes to undermining the commons.

**How to Help Students Understand the Cultural Assumptions that Contribute to the Enclosure of the Cultural and Environmental Commons**

The task of identifying and examining the cultural assumptions that lead to the behaviors, practices, and values that strengthen the commons is made especially difficult by the way in which the ecologically destructive cultural assumptions are so much a part of the taken-for-granted character of everyday life. It is not just a problem of what the individual takes for granted; rather, the cultural assumptions that need to be made explicit and examined in terms of their contribution to a sustainable future are reinforced through the many languaging systems that make up the culture—the media, the built environment—including the layout of social space, the display of over-abundance in supermarkets, the continual change in fashions, the many ways in which technologies are represented as expressions of progress, and so forth. What needs to be made explicit is the way in which the patterns of thinking reproduced in the metaphorical language that people rely upon in communicating with others, and that the government and corporate interests increasingly equate with patriotism, misrepresents the complexity of the individual’s actual experience.

This distinction between ways of thinking, including the role of language as well as the relationships and interdependencies of actual experience, suggests what needs to be the focus of attention at all levels of the educational process. How people have often repressed their own feelings, insights, and embodied knowledge in order to live a life that is dictated by the abstract images conveyed in the language that is taken-for-granted by the dominant society can be seen in the way many women, in the past, avoided expressing their abilities as painters, scientists, engineers, construction workers, theologians, and so forth. These abilities did not fit with the image of what a “woman” was supposed to be. Children who are encouraged to live by the language that foregrounds the importance of winning and competing may, in many instances, feel more true to themselves when interacting with friends or parents in situations that are totally removed from the field of competition. There are many other examples of how language, including such words as individualism, progress, emancipation, and so forth, have corresponded poorly with the individual’s desire for relationships, for experiencing traditions that are a source
of meaning and connectedness, and for identifying personal interests with the more family and community-centered activities.

Public schools and universities need to help students become aware of how abstract words, based on cultural assumptions that have been taken-for-granted over hundreds and even thousands of years, can limit their awareness of the activities and relationships that sustain the cultural commons. The challenge is really no different than what was undertaken by the feminist movement. Hopefully, it will not take the hundreds of years of struggle women experienced before the language becomes more aligned with people’s potential for living rich symbolic lives that depend less upon consumerism. Given the rate and scale at which the enclosure of the cultural and environmental commons is taking place, the spread of global poverty, and rate of decline in the viability of natural systems that follows from the spread of the industrial/consumer lifestyle, we don’t have hundreds of years to reverse the pathway we are now on. In what follows I will suggest ways in which the dominant metaphors that support the enclosure of the commons can become part of the school and university curricula. It is hoped that the limited treatment given here will not be interpreted as exhaustive of what can be examined in the classroom and local community.

The taken-for-granted assumption that change is the expression of progress. In the early grades the teacher needs to monitor the ways in which change is equated with progress in curriculum materials, classroom discussions, and in the various electronic media that students interact with—including both educational software programs and commercials on television. Corporations are now engaged in a massive effort to sell products to young children that range from cereals to clothes to games. Every possible desire or need of a child has been researched for its potential as an exploitable market; and when manufacturers come up with a new product for which there is not yet a market they spend hundreds of millions of dollars to create one. This process of capturing children as life-long customers represents yet another example of enclosure. What is being enclosed is the child’s imagination, the values that derive from engaging in non-consumer related activities, and the child’s ability to form friendships and a self-identity connected with participating with others in games and stories that have been handed down over generations.

Corporate efforts to limit the development of the child’s imagination, skills, and relationships to what can be supplied by the new electronic toy or device also encloses
(marginalizes) the child’s awareness of intergenerational traditions. The dominant cultural message that is essential to creating the need for the latest computer game, cell phone, cereal, and children’s fashions is that change is the most fundamental and desirable characteristic of life. This part of the cultural message that underlies the enclosure of the child’s world diverts awareness from the network of traditions that are re-enacted and given individualized expression in daily life. And in not being aware of traditions because of the cultural orientation toward continual change and even more progress, it becomes increasingly difficult for students to recognize later in life which traditions need to be renewed and which traditions need to be modified or abandoned entirely.

The tension between lived traditions and the constant indoctrination by the promoters of consumerism can be the focus of classroom discussions in the earliest grades. As the students progress through school, the range of issues can be examined in greater depth—including controversial issues. For example, in the early grades, the nature of traditions can be introduced by simply naming them as traditions: rules that govern different games, writing from left to write in English speaking cultures, patterns that govern different types of performances that young students engage in (such as the structure of a story), patterns of meta-communication—including the rules that govern the distinction between private and public spaces. The student’s experience with a technology, such as communicating with others through a computer, can become the basis of a discussion of what traditions become irrelevant to computer-mediated communication. For example, young students are capable of considering what patterns of meta-communication (facial expression, tone of voice, bodily gestures, etc.) are eliminated when communicating through a computer.

Students can also be encouraged to consider the difference between family or community-based narratives and the experience of reading a narrative on a computer screen. Both involve embodied experiences that differ widely, and both can be discussed as examples of what is being enclosed by the computers, cell phones, video games, and other electronic toys that foster a sense of social isolation (or connectedness with people in cyberspace that may misrepresent who they really are). The differences between an industrial and a home prepared meal, buying food at the supermarket and growing it in one’s own garden, getting together for a game of baseball with friends in an open field and playing in the game that replicates the professional and highly commercialized sport, can all become the focus of discussions of whether change is always
progressive in nature. The teacher thus needs to give names to the relationships, skills, dependencies, embodied experiences that are part of the student’s participation in the cultural commons—and that often go unnoticed because no one has provided the language necessary for making them explicit.

As students move further along in their development, the cultural assumption that equates change with progress can be examined in ways that take account of social justice and environmental issues. These include considering the impact of a new technology, idea, and consumer trend on human health, as well as on environmental systems. A good place to start is examining the benefits as well as the losses connected with the use of computers in a variety of cultural contexts. In the middle grades it should be possible to consider the ways in which computers contribute to the enclosure of different aspects of the cultural commons, such as the privacy of the individual, the loss of craft knowledge as the workplace becomes more automated, the loss of ceremonies that are part of a culture’s traditions. And the gains in the areas of health care, maintaining contact with friends and family in distant places, modeling changes in the environment, organizing complex processes such as controlling the flight of aircraft, and so forth, also need to be considered. A topic worth exploring is whether students experience computers as making the knowledge and stories of their parents and grandparents appear as increasingly irrelevant. The point is not to take the easy route of thinking of a technology or other innovation as the latest expression of progress, but to encourage students to develop the habit of reflecting on what are the genuine gains from living less money dependent and thus more self-sufficient lives, as well as reflecting upon who benefits from the innovation and how does the innovation impact the health of the ecosystems.

At the high school and university levels, the historical perspective on when and how the assumption that equates change with a linear form of progress can be introduced, along with a consideration of other cultural assumptions and innovations that further strengthened its acceptance as a taken-for-granted way of thinking. How has the printing press and literacy contributed to the enclosure of the cultural commons? At the high school level, reading Chinua Achebe’s Things Fall Apart will open up a whole range of issues and questions. At the university level reading Walter Ong’s Orality and Literacy: The Technologizing of the Word as well as Eric Havelock’s The Muse Learns to Write will provide insights into an otherwise taken-for-granted assumption that without literacy democracy and social progress would be impossible. How has
the idea of progress influenced American foreign policy, including how the Western model of development, including the promotion of literacy, been promoted in other countries? Has the assumption about progress contributed to the ethnocentrism that is so widespread in the business world, Western churches and educational institutions? What connections, if any, exist between the assumption about progress and the social Darwinism of the last century—and it current revival in recent years? Has the word “progress” served as the talisman for the pharmaceutical and auto industries? Did the cultural assumption that equates innovation and change with progress contribute to the long tradition of scientists ignoring the unintended consequences that resulted from introducing thousands of synthetic chemicals into the environment? And how has the idea of progress influenced the arts, including architecture? Which ideologies have gained legitimacy by promising that they would lead to progress in achieving social justice, and have they succeeded at the cost of further enclosing the cultural and environmental commons? The World Trade Organization is a prime example of an international organization that is promoted on the basis that its enforcement of free trade agreements will enable the peoples of the world to progress economically and thus to achieve a higher material standard of living. Has this been the case, or has it given special advantages to the already rich and powerful countries and corporations? As the cultural assumption that change is inherently progressive in nature has influenced such fields as economics, political theory, literature, philosophy, history, and professional fields of study, there are many sources that can be drawn upon in deepening and broadening the students’ understanding of how the myth of progressive change has affected both the cultural and environmental commons.

It would be interesting to survey the number of environmental educators who engage students in discussions of how science has depended in the past on the assumption that innovations and thus change, particularly changes introduced through scientific discoveries, lead to progress. A corresponding question is: How many environmental educators, even those responsible for the training of public school teachers, introduce their students to what is now being called the “precautionary principle”? And how many have the background to bring the cultural issues mentioned above to the attention of their students?

The individual is the basic social unit, and source of ideas and values. This cultural assumption has a wide range of implications that contribute to undermining the cultural and environmental commons—while at the same time serving as part of the conceptual and moral
framework that contributes to the expansion of the West’s industrial/consumer oriented culture. As this assumption is not likely to be critically examined in most homes, churches, or by those who control the content of the media, it falls to educators as a special challenge. It’s a special challenge by virtue of the fact that most public school teachers and university professors across the disciplines were socialized to accept this assumption as one of the bedrocks of their belief system. In effect, it has had the same status as the oxygen that they breathe—inevitable, taken-for-granted, and functional in that it enables individuals to fit in with the other members of their ethnocentric-oriented culture. The challenge is to identify the conceptual entry points for helping students to understand how, in being nested in the languaging processes and patterns of their culture which are nested in the ecosystems that sustain life, they reproduce in their own lives the cultural patterns that have been handed down over many generations. Clarifying the social justice and ecologically damaging consequences of this assumption is necessary if a more relational and interdependent way of thinking of individualism is to emerge.

The starting place is to make explicit the many ways in which the assumption about individual autonomy, including the rights and responsibilities assumed to be inherent in being a self-directing individual. An examination of the assumption that individuals are originators of ideas and values could start with how students use the personal pronoun which reflects the cultural assumption about the “unique” perspective and interests of the individual, as in “I see”, “I think”, “I want”, and so forth. As the autonomy of individual perspective and wants is part of the earliest phase of socialization, this assumption can be brought to the attention of students in the early grades. The starting point would be to ask why so many of their supposedly individualistic expressions and wants are shared by others. It should also be possible to point out how the language they all use reinforces the idea of having an individually unique perspective, idea, value, and so forth.

As part of the discussion of shared beliefs, values, and vocabulary, it is important to introduce the idea of the cultural and environmental commons, including such concrete examples of what has not been monetized, such as stories, games, knowledge and skills of parents that the students rely upon. In terms of the environmental commons, students in the early grades should be able to understand that the animals and plants that are encountered in nearby fields, water from the local well or municipal water system, the air they breathe, the soil that is used for gardens and play fields, etc., are examples of the environmental commons. By introducing the idea of
cultural and environmental commons, using the distinction between what is freely available to members of the community as well as what is part of a money economy and thus available only to those who can afford it, the student will have the initial conceptual basis for recognizing that their understanding of being an individual has to be placed in the context of interdependent relationships within the cultural and environmental commons that they rely upon. This understanding is profoundly different from the indoctrination that now characterizes the constructivist approaches to learning now being promoted in schools where students are told that they are authors of their own knowledge and values—and that the authority of their subjective judgments and wants is the reason they have the right to change the endings of stories, as is found in some educational software.

At later stages in the educational process, the assumption about individual autonomy and authorship of ideas and values should be examined in light of how it is reinforced at all levels, such as in having to footnote the source of ideas that do not originate with the student and in assigning grades for individual achievement. This emphasis on individual authorship marginalizes awareness of the cultural sources of intelligence, which also includes marginalizing awareness of how the misconceptions of earlier generations that became encoded in the metaphorical language that both students and faculty take for granted. An example of how the language carries forward the misconceptions of the past and contributes to highly acclaimed individuals making misleading statements is E. O. Wilson’s reference to the brain as a machine and a potential problem that can be re-engineered. In order for students to understand how widely the assumption about individual autonomy has influenced the traditions of the culture, they should consider its influence on how property rights (including the patenting of creative works) are understood, the importance of individualism to our legal system, as well as to the democratic process. At this stage, it should be possible to begin examining more closely how the idea of individualism has contributed to the exploitation of the environmental commons, and to the breakdown in intergenerational memory. For example, how has the idea of individualism, when framed in terms of the authority of subjective judgment and values, led to the loss of intergenerational memory of craft knowledge—including the traditional rights gained through collective action in paid employment situations? How has it led to the loss of intergenerational knowledge of narratives, of how to adapt the meeting of human needs to the cycles of renewal in the local ecosystems, and so forth? On the other hand, the case can be made that the loss of
intergenerational memory can lead to freeing the younger generation from the prejudices and sources of injustice carried on for generations. The losses and gains need be assessed within different cultural contexts, rather than viewing intergenerational knowledge in categorical terms.

At the high school and university levels, the way in which other cultures understand the nature of the individual (if they even have the word) can be examined as to how their view of the individual as affected the cultural and environmental commons they depend upon. In examining the assumption within the context of the dominant Western culture, it is important to consider the earliest influences as well as the transformations in how the idea of being an individual was understood at different points in Western history. Does the idea of being an individual have its roots in the early Judeo-Christian tradition of thinking that each individual has a soul and is accountable in the eyes of God (which is in-itself an interesting cultural way of thinking)? How have Western philosophers contributed to the idea of individual autonomy? How did the emergence of a print-oriented culture and thus literacy reinforce the idea—and how did the artists of the late Middle Ages influence the idea of individual perspective and later the nature of individual creativity? How has the development of different ideologies—classical liberalism that began with John Locke and Adam Smith, conservatism in the Edmund Burke/Wendell Berry tradition, libertarianism, and Marxism influenced the dominant way of thinking about individualism? What is the form of individualism that contributes to the continued expansion of the industrial/consumer culture? Has the reliance on and the special privileging of print contributed to an abstract way of thinking that has contributed to the marginalization of being aware of context and thus of place? How has the assumption about being an autonomous individual influenced various ideologies, such as market and social justice liberalism? Each ideology leads to a different understanding of the sources of poverty and the role of government in addressing it. How can the idea of individual autonomy be reconciled with the need to pass laws that limit the right of the individual to exploit the environment? How will the revitalization of the cultural commons contribute to the development of individual talents and mutually supportive relationships that are now limited to the degree that the individual becomes dependent upon meeting personal needs through consumerism? Is the autonomous individual an adequate economic unit when paid employment, as well as health and retirement benefits, become reduced because of automation and outsourcing—or do we now need to think of the shared resources of
the community (including the intergenerational knowledge that contributes to greater self-sufficiency) as the basic non-monetized economic unit?

Again, one of the primary concerns of commons education should be the examination of the way in which the assumption about a society of autonomous individuals has led to cultural practices that have degraded natural systems to the point where their recovery in time to sustain future generations is now in doubt. The range of issues and questions that need to be part of the student’s education requires that classroom teachers and university faculty from a variety of disciplines take responsibility for ensuring that commons education provides a more accurate understanding of how the culture developed in ways that are overshooting the life sustaining capacity of natural systems. They also need to bring the perspective and insights of their field of study to the discussion of the marginalized traditions that need to be renewed in order to reduce the dependence on consumerism and the form of subjectivity that accepts the reduction of daily life to what can be monetized.

This is a human-centered and Darwinian world: which reduces the environment to a resource while making it the primary agent in selecting the better adapted cultural memes. Many of the taken for granted patriarchal patterns of thinking made it difficult to be aware of the problem of gender bias. The interpretative framework (taken-for-granted cultural assumption) that is now used to represent humans and their cultural achievements as governed natural selection adds to the difficulty of recognizing that the continued exploitation of the environment puts our collective future at risk. At first glance it would seem that interpreting the destruction of the cultural and environmental commons from a Darwinian perspective would help strengthen the argument that I am making here. However, this is not the case. Close examination of how the theory of natural selection is being used to explain which cultures are better adapted reveals that the scientists who are making these claims are unaware of the cultural assumptions that lead them to represent the cultures of the West as better adapted in meeting the test of Darwinian fitness.

There are two basic ways of thinking that need to be examined: that the environment is a resource for people to use, and that the way people use the environment reflects their culture’s stage of evolutionary development—with our own being the most advanced in the process of cultural evolution. As teachers and students in the early grades begin to give attention to the many ways in which the idea of the autonomous individual can be more accurately understood as always being in a context involving relationships with others and with the natural systems, they
are laying the basis in thinking and in their embodied knowledge that they are not separate from the environment. The current spectator relationship with the environment, in effect, needs to be replaced with the ever present awareness that acting on the environment leads to changes that may have detrimental consequences. The early miners, loggers, and others in the extraction occupations operated on the assumption that the environment was an endlessly exploitable resource. Their education did not introduce the idea that they needed to consider the long-term consequences of putting toxic materials in streams, clear cutting centuries old forests, and in seeking new technologies that would enlarge their catch of fish. Many of the students’ parents demonstrate this same mentality when they drive the inefficient and polluting SUVs, and engage in hyper-consumerism. Given how widespread this exploitive form of consciousness is, taking up this topic in the early grades has to be done with intelligence and a sense of balance, rather than with an ideological sense of mission.

A non-controversial starting place would be to have the students study how introducing a change into the environment leads to changes in the behavior of the other participants in the system. This might involve observing how changes in sunlight leads to changes in the behavior of the plant, or how the onset of darkness leads bats to begin their nightly search for insects. Observing these phenomena in their natural setting is profoundly different from classroom experiments that reinforce the immorality of a human-centered world. There are many possibilities for directing students’ attention to how changes have a ripple affect on the other behaviors within the ecosystem of which they are participants. Perhaps it’s a matter of observing changes in the behavior of fish as the temperature in the stream or lake undergoes change. Or the focus can be on how the behavior of students change when a teacher or another adult enters the room—or a new student joins the class. The idea that needs to be discussed, and that students need to observe in social and natural environments, is how an action (behavior) affects the action (behavior) of the other participants—which may be the actions of humans on the participants in an ecological system. Having students observe this process as different messages are communicated through body language would help to foster understanding that humans, contrary to the idea of the individual as an independent actor, are always participants in a larger social and natural ecology. Another challenge is to get students to recognize whether the changes they introduce into social and natural systems are constructive in terms of strengthening
relationships—and, finally, to learn to anticipate when their behaviors will have short-term or long-term destructive consequences.

Getting across the idea that we cannot act on a supposed external world and be indifferent to the consequences for others as well as ourselves becomes more complicated as students develop in age and experience. In the middle grades, the historical origins of the idea that the environment is an exploitable resource, or in the best sense, that humans are stewards of the earth, can be introduced. This might lead to examining the source of this idea in the different interpretations of the Book of Genesis, as well as how human/nature relationships are represented in the mythopoetic narratives of other cultures. The teacher has to be very careful to point out that some religious leaders are now attempting to emphasize the idea of stewardship—and to avoid leaving students with the idea that they can borrow the creation stories of other cultures. As language carries forward ways of thinking from the past that are now being re-thought, the teacher can have the students explore the many ways in which the vocabulary used to explain human/nature relationships has changed—including the language used by religious and business spokespersons, and in everyday conversations. Does the metaphor of “resources” now appear as frequently as in the past, and what do corporations mean when they identify their products with “sustainability”? It might also be a useful learning situation if students were invited to think about how the use of the personal pronoun “I” creates a separation between the individual and the supposed external world—and if there are alternatives to the use of this personal pronoun.

As students move to the later stages in high school and university issues relating to how the idea of exploiting the environment was given moral, even spiritual, legitimacy by certain traditions within Christianity can be introduced. In addition, the connections between capitalism, as well as other ideologies such as Marxism, and the exploitation of the environment as a natural resource can be explored. At this level the Social Darwinian tradition of thinking of cultures as evolving in a linear path that moves from primitive to civilized and industrially developed needs to be introduced. There are two key concepts that need to be explored: namely, that the less evolved cultures (also known as undeveloped and thus backward) need to be Westernized if their members are to achieve the highest expression of human ingenuity and material well being. This widely held idea, which is expressed in the oft-repeated statement that we cannot learn from these non-Western indigenous cultures, has led to foreign policies that promoted the industrial approach to exploiting the natural environment. This, in turn, is related to the current efforts to enclose
(monetize) the cultural commons of cultures that have developed in ways that have kept market activity from becoming the dominant focus of everyday life. The continued presence of Social Darwinian thinking, which is reinforced in our educational institutions and in our foreign policies, has served to justifying ignoring what we can learn from the more ecologically-centered cultures of the world.

The second idea that needs to be examined is the way in which current interpretations (indeed, extrapolations) of the theory of evolution now represent cultures that are the greatest exploiters of the world’s natural systems as better adapted and thus more likely to be selected for survival than cultures that have not developed the technologies that are the basis of our consumer-dependent culture. This extension of the explanatory power of the theory of evolution is based on the acceptance and promotion within certain segments of the scientific community that “memes” are to culture what ‘genes’ are to biological systems—and that both are subject to nature’s process of selection that ensures that the better adapted pass their memes and genes on to future generations. A discussion of this idea can then lead to a discussion of the Janus nature of science; that is, how it enables us develop strategies for reducing the adverse effects of technology—as well as how it continues to contribute to the further expansion of the industrial culture that exploits the environment.

There is also the need to examine how the theory of evolution is now being turned into an ideology that justifies market-liberal policies, including how large scale producers and mega-stores are to be understood as more efficient and thus better adapted than the economic practices that are scaled to the needs of local communities. Whether the promoters of this interpretation of evolution are unconsciously integrating into their understanding of evolution their culture’s assumption about the progressive nature of change, and that cultural development “evolves” in a straight line whereby “primitive cultures,” over time, will become like the most “evolved cultures,” also needs to be discussed. One of the insights into how natural selection works in the biological realm is that it leads to diversity of species, while the cultural extrapolations based on the theory of memes have led scientists such as E. O. Wilson, Gregory Stock, and Ray Kurzweil to claim that Western culture will be the only one selected for survival. This conclusion, dressed in scientific language, should lead, in turn, to a discussion of when science becomes transformed into scientism—including what students need to learn in order to be able to distinguish between the two. How to engage students in a discussion of this issue will be dealt with in a later chapter.
Language is a conduit in a sender/receiver process of communication—and words have a universal meaning. As long as this myth goes unchallenged, our efforts to revitalize the commons in different regions of the world, as well as our efforts to understand the conceptual and moral sources of our deepening crises, will continue to be undermined. Thinking of language as a conduit through which ideas, data, and other symbolic representations are passed is reinforced throughout our educational system—from the first grade through most graduate school courses. It is essential to the equally widespread belief in the objective status of ideas and data—another myth that frees people from having to address issues of cultural differences in ways of knowing, as well as the inherently political nature of both the spoken and written word. At the micro political level, words function as an action upon an action; that is, their use affects the behavior and thinking of the other. This may lead to constructive outcomes, but it can also lead to a variety of responses, such as defensiveness, increased self-doubt, actions that are socially and environmentally destructive, and further self-deception. As an example of the latter, when words carry forward earlier misconceptions, which can be seen in how the people working today to dismantle our democratic institutions are referred to as “conservatives,” and the Europeans who were invading the already inhabited “new” world were referred to as “pioneers,” they become powerful sources of political control. The use of words that reproduced gender and racial biases from the past effected both the behavior and self-image of women and members of non-white minority groups. While other examples can easily be cited, it is necessary to point out that the idea that words represent an objective reality, and thus have meanings that are universally shared, serves to give legitimacy to the process of cultural colonization that is now accelerating—thanks to the ability of elites to use computers to monitor and affect changes near instantaneously on a global scale.

Equally important is the way in which the conduit view of language makes it difficult to think about the nature and importance of the cultural commons. The conduit view of language marginalizes an awareness of how words, as metaphors, reproduce the key image or pattern of thinking of the earlier analogy that prevailed over other analogies (yet another example of the political nature of language). Nash’s selection of the liberal tradition of thinking as the analog for understanding how to situate environmentalists within competing ideological traditions was as problematic as Lakoff’s current effort to represent the ideas Wendell Berry and Aldo Leopold as “progressive environmentalists.” These examples highlight how the metaphorical nature of
words, when encoding earlier culturally-based misconceptions, reproduces these misconceptions when people ignore that words (metaphors) have a history and who rely instead upon the myth that words convey an objective truth or state of affairs.

The many ways in which the misconceptions carried forward in our more explicitly political language need to be continually discussed at all levels of the educational process if we are to make real gains in achieving a sustainable world. So the question is: at what level, and how can students be introduced to a more complex understanding of how the metaphorical nature of language reproduces earlier forms cultural intelligence (and unintelligence) that then become the taken-for-granted basis of addressing today’s environmental problems? Again, Bateson’s insights should be taken seriously. The metaphorical nature of language, as he observed in several of his writings, influences thinking and thus what we are aware of in the same way a map influences what aspects of the territory we will pay attention to. If the map does not indicate the location of the geological fault lines, and the location of the habitats of animals on the verge of extinction, those aspects of the territory will go unnoticed. It works the same way with the metaphorical nature of words, and the root metaphors that shape our thinking in ways that even the most educated are generally unaware of. To make Bateson’s point in a different way, the metaphorical nature of language both illuminates and hides. What language enables us to be explicitly aware of is not an objective state of affairs, but is interpreted and thus understood in ways that are largely dictated by the taken-for-granted root metaphors and the image words that encode an earlier analogy that prevailed over other possible analogies. There are many examples of important thinkers who relied upon the root metaphor of a machine to move beyond what they thought were the misconceptions of the past. For example, the seventeenth century thinker, Thomas Hobbes explained the body in the following way: “For what is the heart, but a spring; the nerves, but so many strings, and the joints, but so many wheels, giving motion to the whole body.” Richard Dawkins, writing today on the nature of the selfish gene describes the purpose of the human body in the following way: “But another general quality of successful genes will have is a tendency to postpone the death of their survival machines until after reproduction.” “Survival machines” is his metaphor for a human being. The question that
is seldom asked is what is hidden or marginalized when a root metaphor such as mechanism used as the basis for understanding?

Over a hundred years ago, Friedrich Nietzsche noted that it is impossible to understand the new on its own terms. We rely, as he pointed out, on the already familiar as a basis of understanding what is new. Thus, the familiar provides the conceptual starting point for understanding what the new is like. As he put it, there are no facts, only interpretations that are based on taken-for-granted assumptions that we are seldom aware of. In effect, Nietzsche was giving us an explanation of the process of analogic thinking where the new is initially understood “as like” what we are already familiar with. Nietzsche went on to explain how psychological forces influence our interpretations—what he referred to as our drives, “our for and against” (which are also influenced by our taken-for-granted assumptions). The most important point is that teachers and professors at all levels of the educational process are introducing students to new concepts, words, models of thinking, experiences, and so forth. In order to help students understand the new they are introduced to analogies; that is, words that encode already understood analogies. Thus, students learned that computers process information “as like” the human brain, which can best described as “artificial intelligence.” Now, the human brain is being explained as like a computer. In a curriculum unit that introduced students to the nature of a resource, the explanation began by identifying the various forms of natural resources that are considered useful in an economic sense (what the students could easily understand), and then went on to explain that family and friends were also resources—that is, to be valued for their usefulness. The analogy thus framed family and friends as being like a natural resource that has economic value. In another curriculum unit, students were introduced to the concept of a “silva forest” and the analogy that was used to help students connect the new with what they were already familiar with was a vegetable garden which involved planting new crops and harvesting them after a certain period of time. The analogy of forests being like a garden reinforced the assumption of an anthropocentric world (that is humans are in control), and an industrial way of thinking of forest as a renewable product. What was put out of focus (marginalized) is the forest’s role as a habitat for a large number of species that will be wiped out when the forest is clear cut in the way that a vegetable garden is harvested—to stay with the analogy. The reliance on metaphorical thinking can be seen in the graduate level textbook on the future of capitalism,
which explained how ideologies are like the earth’s tectonic plates that release vast amount of
pressure, and in the process cause changes in the earth’s formation.

As in the above examples of analogic thinking where there are similarities that provide the
initial scaffolding for understanding what is new, the differences often are far greater than the
similarities—and if the teacher fails to explain that what is being introduced as an initial
explanation is an “as if” way of thinking and that the differences may be far more important than
the similarities, the student may be left with a basic misunderstanding. Silva forests are more
complex in terms of contributing to a sustainable future than the students relationship with a
vegetable garden, the nature of friends and family are grossly misunderstood if they are reduced
to a economic or instrumental resources that meet the individual’s needs, and unlike ideologies
which change through a political process the movement of tectonic plates are not subject to
political manipulation—or to any other form of politics. These examples show why classroom
teachers and university professors need to be aware of the metaphorical thinking that is relied
upon in introducing new ideas and ways of thinking, as well as whether the root metaphors and
the analogies consistent with the root metaphors reinforce ecologically destructive patterns of
thinking and behaviors.

Given the inescapable use of metaphorical thinking in the educational process, and the real
possibility that classroom teachers and university professors may not be aware of how root
metaphors frame what is being presented to students as facts and an objective account of some
aspect of reality, the challenge of helping students recognize when language marginalizes an
awareness of their dependency upon the cultural and environmental commons becomes even
greater. I want to emphasize that in order for students to acquire the words and interpretative
frameworks necessary for understanding how they participate in both the processes of enclosure
and in revitalizing the commons they will need to be introduced to the nature of metaphorical
thinking. More specifically, they need to be able to recognize the root metaphors, processes of
analogic thinking, and the image words (iconic metaphor) that reinforce a taken-for-granted
acceptance of the industrial, consumer dependent culture—along with the way in which this
culture equates progress with the further enclosure of the commons. Earlier the chief root
metaphors that underlie and give legitimacy to the further expansion of the industrial culture were
identified. To reiterate, they include change as progress, individualism, anthropocentrism (or
human-centered view of the environment), evolution (as a way of interpreting cultural
development), mechanism, economism (reducing everything to an economic value and relationship). They provide the most basic interpretative frameworks that lead to accepting the domestic and foreign policies of the market liberals that view what remains of the commons as potential markets—even as scientists are warning us about the imminent dangers of global warming.

When and where do teachers begin to introduce students to recognizing that language is not a conduit through which they pass their ideas to others—and that “objective” facts and knowledge shared between individuals and between generation is dependent upon this conduit view of language? It is possible in the early grades to introduce the idea that the new is understood in terms of the already familiar—and that this process is going on every time the teacher says “this is like….” . When the comparison is made, the teacher needs to point out that this is a process of analogic thinking—and that metaphors can take the form of ideas, clothes, buildings, design of cars, and so forth. Student, at least by the third grade, are capable of recognizing the many expressions of “as if” thinking that are part of classroom discussions. Having students write down the examples they recognize over a certain time period would engage their attention. Identifying the use of metaphors by students in their conversations, in what they hear on television, and video games would also help them to become sensitive to how widespread the use of metaphorical thinking is.

These examples, as the students move further through the grades, can be the basis of classroom discussions of how the process of analogic thinking, as well as the image words that result, may lead to misunderstandings and to areas of silence where aspects of experience go unnamed and thus unrecognized. For example, in the early grades “community” was explained in a textbook through the use of pictures and simple descriptions of where people live, work, and play—in cities, suburbs, and in rural areas. But the examples, “think of this as like”, did not include the plants and animals that should also be understood as part of the “community.” It is also possible to ask students what such words as “pests” and “weeds” mean to them; that is, what do they identify as examples of each metaphor? This could be followed up by inviting a scientist to present examples of what the uninformed student might categorize as a pest interacts within the local ecosystem in ways that are beneficial to the entire system. The same can be done with the way in which the word “weed” is used to refer to plants that are viewed as not being usefulness to humans. A scientist or an elder from a nearby indigenous culture should be invited to identify
different plants that, out of ignorance, are considered to be weeds, and to explain the medicinal properties they have, how they stabilize the soil, provide protection for birds and insects that contribute to the regeneration of other plants and animals in the ecosystem. The scientists and elder will also be able to help students recognize when plants are given a name that carries no negative connotations may be invasive in ways that take over the entire local system. The misunderstanding connected with how plants and animals in the past have been named continues to create monumental problems for environmentalists. Students continually need to have reinforced the understanding that words both illuminate and hide, and what they hide (make it difficult to be aware of) is often a result of the misconceptions of earlier generations that failed to question the language they were given.

By the middle grades, and certainly by high school, it should be possible to explain how the process of analogic thinking is framed by the taken-for-granted root metaphors that serve as interpretative frameworks. Some students will already be aware of historically derived interpretative frameworks such as patriarchy and anthropocentrism, but it is unlikely that these interpretative frameworks have been described as root metaphors. Students may not have encountered a formal explanation of how root metaphors influence ways of thinking, values, built environments, environmental practices, and so forth, over hundreds of years. At this level, students should be encouraged to consider how root metaphors such as mechanism influence a wide range of cultural practices. That is, how mechanism as a taken-for-granted interpretive framework has influenced architecture, agriculture, various areas in the sciences, medicine, politics, and even education. The scope of influence can easily be introduced by identifying a root metaphor that the students may already have encountered under a different label—such as sexism or gender bias. Examining the widespread influence of patriarchy, including its cultural origins, provides a model for examining other root metaphors such as individualism, progress, and so forth—including how they are essential for the development and spread of the industrial culture. Also, at this level students are capable of learning how words take on different meanings when there is a shift in root metaphors. For example, when the environment was understood as a natural resource and as something that needed to be brought under human control, the word “wild” was associated with danger, what was out of control, and what had to be brought into the industrial systems of production. When the root metaphor of ecology becomes the taken-for-granted interpretive framework, the word “wild” takes on an entirely different meaning. That is,
it is then understood as pristine, as a self-regenerating ecosystem, and the opposite of what has been economically exploited.

At this level, students are capable of understanding how words encode and carry forward the way of thinking (form of intelligence and unintelligence) of earlier generations—as well as how words (as metaphors) reproduce specific cultural ways of thinking. The word used to refer to the indigenous cultures of the Americas, that is “Indian”, encodes Christopher Columbus’ misconceptions about where he had landed. His goal was to reach India, and in landing and encountering people with darker skins, he gave them the name of the people where he thought he had landed. This was an example of “as like” thinking that has been carried forward over many generations, and is yet another example of the long-term importance of how words illuminate and hide. In this example, what was hidden and, over time, and politically marginalized, were the names that the various indigenous groups used to identify themselves.

Another example of how words carry forward the perspective of a culture that engaged in colonizing other cultures is “Middle East” and “Far East.” As a resident on the west coast of the United States, when I travel to the Far East (for example, Hong Kong), I am actually going west. East for me would be to travel to London. The “Far East” encodes the British colonial way of understanding themselves as at the geographical and political center of the world—which is reflected in the words Near, Middle, and Far East. Similarly, referring to Australia as “down-under” reproduces the British way of understanding themselves as the central reference point. These examples should lead to a discussion of how the names not only reflect a process of metaphorical thinking, but also reproduce the political and economic interests of the group that controlled which metaphors prevailed. When metaphors are understood by students as encoding the misconceptions of earlier generations and of colonial powers they will be more alert to how language contributes to cultural domination. Understanding examples of this process, such as how the Western metaphors of “development” and “progress” legitimates economic colonization, is especially important to understanding how the metaphors that encode the values and assumptions of the industrial culture are contributing to the enclosure of the language essential to sustaining the cultural commons.

In spite of the fact that public school teachers cannot avoid using metaphors, as well as the fact that they mediate between different ways of thinking, the reality is that few teachers have the most elementary understanding of how language carries forward earlier patterns of
metaphorical thinking. Thus the need for university professors to provide an overview of key understandings about how the metaphorical nature of language carries forward the culturally specific assumptions and conceptual templates or models of earlier generations. After providing examples of different root metaphors (e.g., progress, individualism, mechanism, evolution, patriarchy, etc.) as well as iconic or image metaphors (data, tradition, creativity, pioneer, freedom, environment, intelligence, etc.) it should be possible to make the connections between metaphorical thinking and the body of knowledge in the different disciplines. There are many ways in which these connections can be made. For example, examining the root metaphors that underlie different ideologies, such as market-liberalism, social justice-liberalism, Libertarianism, Marxism, and conservatism, would be especially useful for later discussions of the nature and importance of conserving the diversity of the world’s cultural and environmental commons. Each of the ideologies led to different interpretations of human/nature relationships, with the differences largely dependent upon the language privileged by the ideology.

Each discipline—psychology, sociology, history, economic, philosophy, and so forth—is based on root metaphors, and students should be encouraged to examine how different root metaphors held at an earlier time within the discipline led to genuine insights and useful knowledge, and when they led to destructive consequences. For example, what were the prevailing assumptions that led to measuring intelligence, and what assumptions were taken-for-granted in the field of urban planning when whole communities were displaced in favor of freeways and high-rise buildings? What root metaphors are still taken-for-granted in the fields of economics and philosophy, and how have these assumptions prevented highly educated people from recognizing that exploiting the environment as an economic resource should not be equated with progress. John Dewey, for example, argued for the further development of an industrial form of culture and the imposition of his one-true approach to knowledge on other cultures. Neither he nor most of his followers recognized what was problematic about the culturally specific assumptions that were the basis of his ideas. And why has it taken economists so long to recognize that their principal assumptions about supply and demand are based on a highly reductionist way of thinking that fails to take account of the economic behavior of cultures that attempt to live in greater balance with the ecosystems they depend upon? What are the current root metaphors that underlie brain research, the efforts to genetically engineer plants so that they
are resistant to pesticides, and the thinking of environmentalists who consider themselves in the liberal tradition of thinking?

The challenge is to encourage students to take seriously the importance of thinking about which root metaphors are more supportive of cultural practices that have a smaller ecological footprint, and thus contribute to a more sustainable future. For example, does “ecology” when used as a root metaphor marginalize the nature of differences in natural and cultural systems? Or does it foreground the importance of diversity in cultures and natural systems. And how can the root metaphor of individualism be changed so that the analogs highlight the different forms of dependency and intergenerational responsibility. The root metaphor of progress also needs to be reconstituted by being connected to an understanding of how an ecosystem renews itself—including the role of culture in this process. Too often the popular use of “progress” obscures the destructive effect of technological innovations, ideas, and governmental policies. There is a need to give serious thought to how the root metaphor of mechanism is central to the process of incorporating more aspects of the cultural and environmental commons into the industrial systems of production and consumption—as well as when the mechanistic model of thinking makes a genuine, non-ecologically destructive contribution.

In effect, at the university level the focus should be on helping students understand how the root metaphors that came into being prior to an awareness of ecological limits continue to frame the thinking of experts who are beginning to address environmental issues in a variety of fields. The most difficult part of this challenge will be to help students to recognize the metaphors that contribute to a less consumer dependent lifestyle—and to strengthening the cultural commons. This will be especially difficult for professors who were educated to think of themselves as liberal and progressive activists, and who accepted without question how such metaphors as tradition, conservative, indigenous knowledge, and ecology reproduced the misconceptions of their professors. Professors who think that they are on the cutting edge of social justice and emancipated thinking need to ask why so many of their students end up supporting market-liberal politicians that are engaged in globalizing the industrial, consumer form of culture that is increasing the rate of environmental degradation—and why so many of their graduates think in terms of universalizing the values and assumptions that have proven so environmentally destructive.
Chapter 4 The Classroom Practice of Commons Education

Just as helping students to recognize that ecologically problematic cultural assumptions should be part of classroom discussions, learning about the cultural and environmental commons should also be an integral part of every area of the curriculum. Little will be gained in terms of educational reforms that contribute to reversing the cultural trend-line of degrading the self-renewing capacity of natural systems if learning about the cultural and environmental commons is treated as a separate subject. By integrating different aspects of the cultural and environmental commons into other subject areas, and by keeping in focus the different ways in which the commons are the basis of a less money-dependent and less environmentally destructive lifestyle, subjects that many students now find irrelevant will have greater personal meaning—and will even be understood as sources of empowerment. Keeping in focus the many ways in which both the cultural and environmental commons are being brought into the industrial system of production and consumption will also help students recognize that their silence or focus only on personal self-interest may have political implications that may later contribute to a life of poverty. If this sounds too alarmist, consider how few people were aware of the political decisions that led to the foreign outsourcing of local jobs or the local impact of automation.

Before identifying the aspects of the cultural and environmental commons that need to be given special attention, several points need to be reiterated. The first is that learning about the cultural and environmental commons is, unlike many areas of the curriculum, based on making explicit the actual cultural activities and patterns, as well as environmental conditions that are part of the students’ too often unexamined experience. That is, learning about the cultural and environmental commons is not an ideologically-driven representation of a new form of society, such as Dewey’s vision of societies around the world adopting the scientific method of problem solving as the one-true approach to knowledge. Nor is it based on the culturally uninformed romantic idea that all forms of social injustice will become a thing of the past if students are allowed to construct their own knowledge of the world. The cultural and environmental commons that should be the focus of learning, including being subjected to critical reflection about what needs to be changed and what needs to be intergenerationally
renewed, are part of people’s everyday experiences. It also needs to be recognized that the nature of the commons will differ from culture to culture, and from bioregion to bioregion. Given that this focus on actual cultural practices and environmental conditions, which goes against the grain of high-status forms of knowledge where the emphasis is too often on context-free generalizations and abstract (that is, print-based) descriptions, classroom teachers and university professors need to be especially mindful about not allowing their own ethnocentrism to get in the way of recognizing differences in cultural and environmental contexts. This more phenomenological approach will be a safeguard against universal prescriptions.

The other point that needs to be kept in mind is that modern forms of enclosure are increasingly dependent upon creating a rootless form of individual subjectivity where memory and long-term perspective are overwhelmed by the steady stream of consumer fads. Many youth are now filling evangelical and fundamentalist Christian churches that combine the emotional release of a rock concert with the ontological certainties that come from declaring Jesus as their personal savior. Their rootlessness has simply taken on a different form of expression. That is, their subjective search for identity and instant gratification further marginalizes the collective memory of the history of struggle for social justice and a democratic society. In place of memory of the social justice achievements that must be carried forward and further expanded, the merging of consumer and religious fundamentalism orientates youth toward a future where all believers will be saved, regardless of whether they are good environmental citizens or not. In effect, the dominance of what the future holds, as well as the literal interpretations of the Bible about the fate of those who have not declared Jesus as their personal savior, creates special challenges for getting students to take seriously the historical perspective that is necessary in order to understand the many traditions that enabled people to live less money dependent lives, and to recognize the degree to which the self-renewing capacity of natural systems are being undermined.

There are aspects of the cultural and environmental commons that continue to survive because the consumer-oriented culture has not been entirely successful in overwhelming the still ethnically-rooted cultures that exist on the fringes of the dominant culture. Moreover, the dominant culture has not been entirely successful in replacing the need of some youth and adults to develop their own interests and talents in more
intergenerationally-centered activities. But the efforts of the promoters of a consumer-dependent lifestyle continue unrelenting. Nearly every activity—from playing cards, dancing, cooking, sex, gardening, reading, house repair, hiking, bird watching, conversations, physical exercise, education, to healing nearly all manner of psychological and physical problems, have been turned into exploitable markets—with the latest being the placing of television style advertising on the screens of cell phones and movies. An even more egregious example of the total lack of moral limits of what can be exploited as a new market is the example of a corporation named Team Baby Entertainment which develops DVDs that highlight college athletic teams. The market for these DVDs is the pre-school population, and the hook is that in addition to being exposed to the culture of university football the children are encouraged to count and spell. The company lists 20 DVDs, with “Baby Irish” (University of Notre Dame) and “Baby Longhorn” (University of Texas) being among the top sellers. These and thousands of similar examples of turning every aspect of the cultural and environmental commons, and every age group, into an exploitable market indicate just how dominant market liberalism has become—and just how difficult it will be to put the country on a sustainable pathway.

There are signs of hope. While market liberal politicians and corporations big and small continue their assault on what remains of the cultural and environmental commons, a minority of youth and adults continue to find meaning as well as development of personal talents in face-to-face relationships—with mentors in the arts, healing practices, gardening, environmental restoration projects, and so forth. Another positive sign is the growing interest among some members of the middle class in cutting back or dropping out entirely from their previously chosen career path that held out the promise of life at the upper level of the consumer pyramid in order to live less hurried and less externally controlled lifestyles. This small trend of adopting a life of voluntary simplicity is now being strengthened by what can be called the lifestyle of involuntary simplicity as automation, outsourcing of jobs (even for white-collar workers), and corporate decision makers abandon what remains of older notions of a social contract that provided for retirement benefits in exchange for a life of work and loyalty to the corporation.

The cycle of working in order to consume is now beginning to be replaced by a new cycle where growing unemployment and the loss of retirement and health benefits will lead to
less consumerism. Even though market-liberals and fundamentalist Christians promote the idea that poverty reflects personal weaknesses, along with the re-emergence of the Social Darwinian idea that the poorly adapted genes of individuals as well as the memes of businesses, will lead to their extinction, there is still the existential question of how to sustain daily existence when sources of money begin to fail. The dominant ideologies, in effect, can no longer be relied upon to use the instruments of government to distribute wealth in a more socially just manner, nor can government be seen as safeguarding local communities from the destructive impact of international corporations that exploit the local environmental commons and local economies. Without a knowledge of the nature of the local cultural and environmental commons, and thus of how to re-orient daily life toward what is a more sustainable existence, people faced with a life of involuntary simplicity will spend more hours in front of the television, playing computer games, and experiencing various forms of depression—which will continue to pour money into the coffers of the medical and pharmaceutical industries. Involuntary simplicity, in effect, is too often a life of poverty that goes beyond the lack of the material basis of existence. That is, their poverty includes not knowing how to participate in the activities of the cultural commons that would develop their personal talents and lead to the understanding that the more enduring form of wealth is in mutually supportive relationships. This form of wealth cannot be outsourced!

The following are possibilities for curriculum reform that will provide students the language for making explicit the various expressions of the cultural and environmental commons that still exist in their communities—as well as the knowledge of why the diversity of the world’s cultural and environmental commons needs to be sustained. The following curriculum proposals address what needs to be learned in a post-industrial world—one in which the market and its underlying technologies are viewed as supporting the commons rather than as further enclosing them. An example of how modern technologies can support the cultural commons without further degrading the environmental commons is the introduction of solar powered LED lamps that are replacing kerosene lamps in rural India. The micro-banks that support local producers and markets, as well as a wide range of energy efficient technologies, are other examples that point the way to understanding that post-industrial cultures will need to shift from an emphasis on profits and the autonomous individual required by a market-oriented culture to cultures that are more intergenerationally connected and thus
more aware of their responsibility for not undermining the mutual support systems that future generations will need to rely upon. The following discussion of curriculum reforms is also based on the recognition that fostering an understanding of cultural and natural systems as interdependent ecologies will not likely be taken on as a responsibility of churches, most families, businesses, or the media—which leaves formal education as the one possibility that might rise to the challenge, as it did after long delays in addressing the deep cultural assumption of a male dominated culture.

**Themes and Issues in a Cultural Commons Curriculum**

Initially, many classroom teachers and university professors may have difficulty identifying the different expressions of the cultural commons that need to be brought to the attention of students. In not being able to easily recognize the cultural commons they will have difficulty engaging students in discussions of the many forms of enclosure. Even the professors who have made the criticism of capitalism a central focus seem unable to recognize the commons as an “on-the-ground” alternative. This initial lack of awareness and only marginal interest is likely to replicate how educators initially responded to the efforts of feminists who were critical of those aspects of the cultural commons based on cultural assumptions that privileged men over women. What we can learn from that centuries-long inability to recognize unjust taken-for-granted cultural patterns is that the process of naming is the first step in transforming consciousness from a condition of existence based formulaic beliefs and practices to becoming explicitly aware—and to critical reflection. If classroom teachers and university professors take seriously the impact of our hyper-consumer culture on the viability of natural systems (and this is a big if), and if they recognize the current rate of dependence upon consumerism, they will find that the easiest way of identifying the cultural commons that are being targeted as new niche markets is to look at the number of magazines used to advertise how different commons activities can be upgraded through the purchase of new products.

The preparation of food, which varies from culture to culture, is represented in a variety of magazines as being elevated in social status by acquiring the latest appliances, cooking utensils, and following the most exotic recipes. Outdoor activities ranging from gardening, fishing, hiking, bird watching, camping, tennis, as well as other sports, are targeted markets of magazines that reinforce the message that purchasing the latest products will increase
performance and communicate to others one’s higher social status. Woodworking, house repairs, quilt making, weaving, healing practices, and so on, also have their own magazines filled with advertisements. Even extremist groups are targeted by magazines that promote the latest in lethal weapons, camouflage gear, and hate literature. Indeed, it seems there is nothing in our culture that cannot be turned into a new market opportunity. I am not suggesting that this is the only or even the best starting point for identifying the activities within the community that are part of the cultural commons. Even if this is not the starting point, it would still be useful at some point to introduce students to the activities that are part of the local cultural commons, and to compare the values promoted in these activities with what is being promoted in these special market magazines.

The following is intended as a partial list of the activities and interests that represent the cultural commons in different regions of the country. Because of the diversity of bioregions and ethnic cultures, it is impossible to provide a complete list. Even if the website were to contain such a list, it would still not be the best way to introduce the students to the possibilities of a less consumer existence. If the current educational problem of presenting students with abstract knowledge that appears to them as irrelevant to their lives is to be avoided, then the introduction to the local commons should not begin with an abstract list. Rather, the introduction should be based on a more ethnographic approach that will bring the students into face-to-face relationships with the different mentors and other people engaged in cultural commons activities. This involves going into the community, as well as bringing people into the classroom, with the purpose enabling students to hear personal stories of how interests and talents were discovered, how they were dependent upon intergenerational knowledge shared by mentors, how their activities give them a sense of community, and how they are dealing with the market forces that are attempting to enclose the intergenerational continuities by substituting consumer products for the development of personal skills and interests.

The key point is that the discussions by different members of the community, as well as their activities that help to renew the cultural commons, should not involve reading textbooks or relying upon computer websites—as both have a limited usefulness. Learning from people who are participants, and who have a clear understanding about the differences between consumerism and community self-reliance, will help the students to think more deeply about
what areas of the cultural commons are most relevant to their own talents, interests, and need for supportive relationships. This more ethnographic, face-to-face approach to learning can only take students so far in understanding the cultural forces that have contributed to the widespread ignorance of the commons, and that are promoting their further enclosure. Students also need to learn about how various groups beyond their local communities, both in the past and currently, have promoted in the name of progress and other higher values the enclosure of the world’s diverse cultural and environmental commons. The students also need to confront the double bind that is inherent in the Western approach to progress where the further enclosure of the cultural and environmental commons is equated with achieving greater progress.

Depending upon the students’ maturity, the initial step in introducing them to the cultural commons is to provide a brief explanation of the difference between money-dependent activities and those that are less or entirely free of a monetized relationship. This basic difference needs to be connected with activities and relationships that are part of the students’ daily experience. This initial vocabulary, where the words “commons” and “market” (that is, what has to be purchased or paid for), contains the fundamental tension that needs to be explored further as the students move through the educational process. This limited vocabulary, in effect, provides the initial understanding of what separates the activities and relationships that strengthen the commons from the many ways in which the student is dependent upon the market—with some forms of dependency being valid while most others create artificial dependencies that limit the students’ personal development and connectedness with community. In both commons and market-dependent relationships, there are key features of the students’ experience that need to be made explicit. This can be achieved by providing the verbal space that will enable students to articulate the following: the sense of meaning they experience in both commons and market-dominated activities and relationships, their feeling of dependency or development of personal skill and talents, and how commons-based experiences differ from market-dominated experiences in terms of their impact on natural systems. Consider the ecological impact of their activities should become second nature, and thus begin to replace the cultural myth that humans can survive the destruction of the environment they depend upon by further technological developments.
Skeptics who doubt that young students can understand how language illuminates and hides the cultural patterns that need to be made explicit need to consider how many teachers in the early grades provided an equally limited yet powerful vocabulary for identifying the gender based relationships, activities, and social roles that had been ignored for hundreds of years. To reiterate a key point, it’s at the later stages of the educational process that the cultural differences in the nature of the cultural commons can be introduced, as well as the economic, ideological, and scientific/technological forces that are enclosing the commons. Support from members of the community needs to be gained before the forces that are enclosing the commons become the focus of the classroom discussions. What many educational reformers do not understand is that they need to establish that they are helping to conserve intergenerational traditions that strengthen community and that help to ensure the prospects of future generations. This will help to counter the faux conservatives critics who are actually in the market-liberal tradition that is committed to expanding markets by further exploiting both the cultural and environmental commons.

Here is an initial list of activities and interdependent relationships that fit the definition of the cultural commons, as well as a brief description of how they are being enclosed—that is, how they are being integrated into a money-dependent economy. The list, which should be expanded or revised in terms of the local culture, might be especially useful for teachers who, having introduced students to the nature of racial and gender prejudice, take on the task of introducing students to the even more daunting challenge we now face in pursuing community-centered alternatives to an economic system that is ecologically unsustainable. All of the suggestions for incorporating learning about the commons and the processes of enclosure are dependent upon introducing students to an ethnographic approach as the starting point in the process of inquiry. The emphasis of this approach on the description of experiences that previously went largely unnamed and thus not thought about, and can later move to the more theory-based examination of ideologies and economic practices—as well as examining why highly educated people continue to promote in the name of progress and freedom the practices that are degrading the environment.

Food

If teachers go to the website of Slow Food USA or the website of the Center for Ecoliteracy, they will find a number of helpful resources for introducing students to a deeper
understanding of the issues that are already being contested in public schools across the country. That is, whether industrially prepared foods, which have already influenced most students’ eating habits by the time they enter the first grades, should be allowed in schools. Depending upon the students’ maturity and background knowledge, other issues need to become part of the discussion of the various cultural traditions in the students’ community, such as the growing, preparation, and sharing of food—including how these traditions differ from the more individualized experience of eating at an industrialized fast-food outlet. The Slow Food website is especially useful for providing a larger cultural context for discussing the difference between intergenerational and industrial approaches to the growing, preparation and sharing of food—as well as how industrial approaches are enclosing this important part of the cultural commons.

The larger cultural context includes how the characteristics of the bioregion in which the student’s community is situated have influenced what have become the traditional foods of a cultural group—including their knowledge of where and in which season the sources of food are grown or found. The early methods of preservation as well as knowledge of how to prepare food in ways that reduced risks to health and to ensure a balanced diet also need to be compared with the industrial, chemically dependent, and now genetically engineered approaches to agriculture. Learning about different cultural contexts will foreground other aspects of the cultural commons, such as the ceremonies connected with the planting and harvest, as well as narratives that carry forward family and community memories of mistakes in exploiting or acting out of ignorance of natural systems. Narratives still passed along within the students’ community, which among many cultures were often sources of wisdom as to how to live in ecological balance, need to be discussed. The absence of these narratives within the student’s family and community is an important entry point for a discussion of how industrialized approaches to food contribute to the enclosure of this aspect of the cultural commons—thus, adding further to the students’ dependence upon a consumer relationship with food.

At a later stage in the student’s education there needs to be a discussion of the history of the industrialization of food, including developments in technologies, scientific discoveries, marketing strategies, and the legitimating ideology that promotes industrially prepared food as healthier than the culturally diverse food that had been refined over generations of living
within the limits of the bioregion. This complex and diverse set of traditions is also part of the cultural commons that are now under threat by market liberals who are attempting to globalize what food should taste like, with its excessive reliance on salt, sugar, and other artificial chemicals. As the differences are examined between intergenerationally influenced and industrial approaches to food (probably at the high school and university level), students also need to consider how each approach relates to the issues of community self-reliance, how the monetizing of food contributes to the spread of poverty both here and abroad, and the impact on natural systems of transporting food over thousands of miles. A point that needs to be considered is the role that science, technology, and ideology play in further enclosing the ethnic traditions of growing and preparing food, and how the genetic engineering of seeds is contributing to the loss of diversity of native foods in different regions of the world. There is also the question of how industrial foods are contributing to health problems that did not exist when cultures relied on local sources of food. For example, in the 1930’s the diet of the Tohono O’odham (who live on a reservation near Tucson) relied heavily upon the locally grown tepary bean, and no one in the tribe had heard of diabetes. As the members of the tribe became more dependent on processed food, diabetes became a major problem that now affects nearly fifty percent of the adult population. Obesity is now being discussed as a problem that arises in different parts of the world where young people are increasingly eating fast food.

An activity that would help ground the discussion of the differences between traditional and industrially processed foods would be to have students investigate the variety of foods relied upon by indigenous cultures that lived in the bioregion before they were displaced by Anglo and Euro-Americans. This discussion needs to highlight how the variety of foods developed by indigenous cultures enriched the diet of the Europeans as well as the range of food that we now take-for-granted in America. Another activity would be to identify the varieties of fruit trees that the settlers planted when they established their farms and planted their gardens—and to compare the varieties that existed then with what exists today. Another activity would be to check out the list of 700 endangered American foods on the website of Renewing America’s Food Traditions, and to investigate which foods on the list still exist in their bioregion. Relying more on individual and community gardens, as well as traditional sources of food that are raised by different ethnic groups, will become increasingly important
as the post-industrial culture adapts to a less money-dependent and less environmentally destructive lifestyle.

**Creative Arts**

An individual who sat in on my talk on how market liberal politicians are undermining the cultural commons while at the same time privatizing poverty sent me an email that described how a group of local musicians were an example of a commons approach to one of the arts—in this case the playing of traditional Irish music. As he explained, “People who wish to play Irish music can come to the jam session and play whatever notes they can. Hopefully, someone at the session will give them an occasional pointer. In a kind of musical gift economy, no money exchanges hands for instruction.” The generosity he described is often present in relationships where intergenerational skills are being passed on to the next generation—but found less often in monetized relationships.

A survey of the other arts in the community can begin by identifying the mentors and groups that promote various forms of artistic expression that are only minimally dependent upon the money economy. Who are the women and men in the community who have developed their talents as musicians, potters, weavers, dancers, actors, poets, painters, and sculptors? To what extent has their development depended upon being mentored—often in situations similar to the description of learning from others performing traditional Irish music? And how many local artists who have been mentored are willing to mentor others? What is the difference between paying a fee to mentors who are not totally independent of the money economy and purchasing a ticket to watch a play or another form of artistic performance? Young students can be introduced to this aspect of the cultural commons by inviting various artists to give demonstrations for the class as well as to guide students in their first efforts to express themselves through an artistic medium. This can lead to a discussion of how they were attracted to being a potter, painter, actor, and so forth. It would also be useful to have the artists talk about what they think their contribution is to the community—as well as how being part of a community of artists is different from being an individual consumer of the arts. These early discussions, which may be elementary and general, nevertheless provide students with what may be their first encounter with a different vocabulary than what they encounter through the media. It is the vocabulary of the artist that will enable them to be a more discriminating observers of the difference between the arts that
represent personal talent and aesthetic judgment that strengthen community ties, and the arts that are used to promote products and to differentiate social status between groups.

As the students progress to the point where they begin to grapple with how this aspect of the cultural commons differs from the arts that are now being used, along with sex, to promote consumerism, it would be useful for them to be encouraged to think about the difference between folk art (including what has been integrated into built environments and local festivals) and the high-status art that is promoted through various media and by experts that make public judgments about the difference between significant and insignificant art. Again, if students are encouraged to connect their classroom discussions to what they have observed in their communities, distinctions will begin to emerge that will be important to them as individuals.

Still later in their learning about this aspect of the cultural commons, they should be introduced to the role that the arts play in ecologically-centered indigenous cultures. This would involve learning how ceremonies in many cultures involve participation of the entire community—in the performance of the dance, music, dress, and so forth. For example, it would be useful for students to consider the cultural importance of how these participatory arts give individuals the opportunity for self-expression, carry forward in highly symbolic form the collective memory of the community, as well as provide for an atmosphere of thanksgiving for nature’s bounty (such as the rain ceremonies of the Hopi, and the dances that celebrate the renewal of other members of the human/Nature community). Considering how other non-consumer oriented cultures use the arts to transform the everyday experiences in ways that connect the members of the community to a more intergenerationally connected symbolic world will provide a basis for thinking about what is being reinforced in the different artistic performances in the student’s culture.

At the high school and university level, students should begin to think about the social messages that are implicit in films, television programs, video games. How do these hidden messages influence individual consciousness and thus expectations in daily life? Do they promote consumerism, the quest to be glamorous, the need to surround oneself with the consumer products that communicate success and achievement of higher social status? How do the industrial uses of the arts contribute to the silences that lead so many adults to be unaware of the various arts that are part of the cultural commons—and do not require a huge
income to participate in? There is also a need to begin thinking about how different ideologies influence what constitutes good art—as well as its social purpose. There is also a connection between how non-Western cultures use the arts as part of daily life, including their role in the local economy. An important question is what happens to these artists when their communities become increasingly dependent upon tourism in order to participate more fully in a money-dependent economy?

**Ceremonies and Narratives**

Ceremonies and narratives are an important part of the cultural commons, and in many cultures they play an important role in the intergenerational renewal of the culture’s environmental ethic. The values and ways of thinking they carry forward differ from culture to culture. They may carry forward the environmental wisdom accumulated over generations of learning from the life-cycles that characterize the bioregion they depend upon, and they may carry forward the moral values that are to govern both relationships with strangers and with members of the community. As recent history reminds us, ceremonies and narratives may also reinforce the idea of racial superiority, the national sense of how wrongs can be reversed by conquering other countries, and the vision of an imperialistic future.

The differences in the values reinforced by cultural ceremonies and narratives can be seen in how some indigenous cultures of the Pacific Northwest, as well as the Ainu (the indigenous people of Japan) understood the spiritual significance of the salmon, and how the return of the salmon in the rivers would be celebrated for providing moral guidance for how humans should live in the world. In these cultures, the appearance of the first salmon would lead to days of ceremony, including feasting and dancing. As no salmon were caught during these days, a large number of salmon were able to navigate their way to their traditional spawning grounds. In effect, not only did the ceremony renew moral/spiritual connections between the practices of the cultural and environmental commons, it also ensured the continuation of the cycle of life that the salmon and people shared together. The ceremonies and narratives in such cultures as Nazi Germany and the American Ku Kluk Klan represent how the pathologies of the human mind are also constituted, renewed and passed on to future generations. As Alasdair MacIntyre pointed out in *After Virtue* (1981) narratives connect the individual to the culture’s memory in ways that influence both the values that the individual holds but also the individual’s moral reference points for establishing a self-identity.
As is the case with most aspects of the cultural commons, it is necessary to begin with identifying the various ceremonies and narratives that are central to the various groups in the students’ community. In certain instances it may be wise to raise the more controversial issues later in the students’ education. It needs to be emphasized that recognizing the different traditions of ceremonies and narratives establishes a basis of community support for when the controversial issues become part of class discussions. The starting place for students in the early grades, however, is with introducing them to different traditions of narrative that some students will have already encountered in a more surface way in children’s literature books. These would include the classic narratives that go back to the early Greeks, the Norse and Germanic tribes, and the narratives of indigenous cultures in North America. The forms of narrative can be discussed, as well as the moral messages they were intended to convey. The similarities and differences between these traditions and the modern narratives that the students are likely to have encountered in animated film can also be discussed. What students are learning is that narratives are part of the cultural memory, that they represent earlier ways of thinking and that they played an important role in the education of the young before the time of literacy, and that they are the source of human experience that are often used as metaphors for understanding today’s world.

It is possible in the early grades to have students collect information on the different ceremonies taking place in the community, and to identify the cultural group that sponsors them. This survey of ceremonies and sponsoring groups brings out yet another tradition that promotes community solidarity and memory. In later grades questions relating to these community ceremonies can be raised. For example: What is the cultural origin of the ceremony, and what was its original purpose-- to celebrate a victory, the harvest that warded off starvation, some major cultural achievement or discovery, the end of foreign occupation, etc.? How has the ceremony, which has its roots in the distant past of another country, undergone changes in the American context? Does the ceremony in the American context retain cultural traditions that no longer exist in the country of origin--that is, has it become a communal form of nostalgia and a romanticizing of the past? There are other questions that need to be explored, such as whether the ceremony helps to retain the silences about the injustices carried out by the people whose achievements are the focus of the ceremony? The centennial celebration of the pioneers that made the Oregon Trail an indelible part of the
history of the American West, and the recent celebration, with all of its regional ceremonies, of the Lewis and Clark expedition, are prime examples. From the Anglo/European perspective what is being celebrated is the successful completion of their journey, but from the indigenous perspective what is being celebrated is their displacement from their traditional homelands. It is this part of the story that is largely ignored. As the expression of a collective memory of the cultural commons, it’s necessary that the students recognize the expressions of courage, self-sacrifice, and mutual support—as well as the wrongs done to others.

The ways in which the ceremonies and narratives are enclosed by market forces also need to be examined before students graduate from or drop out of high school. Enclosure may take the form of a ceremony being taken over by military or corporate interests, and by being turned into a marketing opportunity by local businesses. There are other narratives that have been repressed by corporate interests, such as the stories of the labor movement, and anti-war movements. The narratives about the civil rights and feminist movements are still a vital part of the cultural commons in many communities. There are forms of narrative that are particularly prone to being turned into a commodity—first as a movie and then as a wide range of gadgets, toys, clothes with movie derived logos, and so forth. Enclosure may also result from other cultural pressures, such as the targeting of youth as consumers engaged in the constant struggle to own and display the latest trend dictated by peer pressure. This emphasis on youth as the most receptive market for the latest technological innovation further alienates them from having an interest in the narrative and ceremonial traditions of their parents and grandparents. In effect, the rate of technological change, particularly in areas where the microchip is the basis of the technology, undermines different areas of the cultural commons—with hardly anyone under the age of thirty recognizing the loss, much less its significance. The illusion of being an autonomous individual, which characterizes so much of the culture of youth, serves the interests of market forces. This is further reinforced by the widely held idea promoted in teacher education programs that students should construct their own knowledge and determine their own values.

Another question that needs to be explored by students before they leave the classroom— with its potential for a wide ranging examination of cultural practices that might not be tolerated in other social settings. The question is: What are the narratives and ceremonies that embody the experiences of the current generation that merit passing on to future generations?
That is, what is the story line of their generation that might be relevant to future generations of youth that will be facing the more constricted choices caused by a degraded environment and a post-industrial culture? And a second question is: what skills and wisdom would they like to become mentors of?

At the university level, the Enlightenment tradition of ideas have marginalized and in many instances denigrated the positive role that ceremonies and narratives play in carrying forward the collective memories of how to live in morally coherent relationships with others. The sources of these ideas that have helped to create the distinction between high- and low-status knowledge can be traced to the earliest Western philosophers, as well as to the political and economic theorists who articulated the importance of eliminating all moral barriers to the expansion of free markets. It needs to be considered how these traditions of thinking led to the pattern of dichotomous categories where rationality, in its contemporary scientific and critical modes of expression, is upheld as justifying the dismissal of other cultural ways of knowing, particularly those represented in ceremonies and narratives, as sources of superstition and ignorance. Some of these cultural ceremonies and narratives, as mentioned earlier, were indeed destructive, based on prejudices, and privileged the economic interests of local elites. The blanket treatment of all forms of knowledge that are carried forward in ceremonies and narratives as sources of ignorance has led to the failure to assess their worth in terms of the contribution they have made in enabling different cultures to live within the limits of their bioregion and to sustain a process of democratic decision making about which traditions are essential to living less money-dependent lives.

Students need to think about the moral and ecological criteria that are to be used in judging the ceremonies and narratives that are part of their own cultural and environmental commons, as well as how the ceremonies and narratives of other cultures contribute to less environmentally and colonizing patterns of existence. A strong case can be made that the deep cultural assumptions underlying the traditions of Western philosophy, including political and economic theory, have the same messianic (colonizing) tendencies that are found in Christianity. Is the Armageddon that many Americans anticipate based on a narrative that enables people to live in less environmentally destructive and money dependent ways? Are the narratives of current scientists who are predicting that we are entering a post-biological phase of evolution, where humans will be replaced by computer networks, to be taken seriously as
more people sink into poverty and a state of hopelessness? What is the significance for our
cultural commons of the ceremonies that mark the remembrance of Martin Luther King, Jr.’s
achievements and vision? My concern is that there are few opportunities in a university
education where these specific questions can be considered from an historical and cross
cultural perspective.

**Moral and Spiritual Commons**

This is an aspect of the cultural commons that is more often practiced in daily life, than
understood—except when the moral norms are ignored or deliberately violated. It is also an
aspect of the cultural commons that may not be shared by all the members of the community
because of ethnic and religious differences. Some groups may have a complex and shared
spiritual commons—music, traditions of dealing with various forms of oppression,
understanding of what is sacred (including places), ceremonies that celebrate special events in
the life of the group, and the personal inspiration derived from a tradition of hope and working
for social and ecojustice. Others may be marginalized in the larger community’s
understanding of who is to be included in the moral commons. Basically, the moral commons,
which may differ from culture to culture, involves the shared expectations of moral
reciprocity—that is, relationships that are mutually supportive, based on trust, and are non-
exploitive. The relationships that Martin Buber referred to in terms of I-Thou would be part of
the moral commons—and, in terms of his interpretation, it can also be understood as one of the
forms that the spiritual commons may take. Examples of enclosure (that is, turning the moral
commons into an exploitive relationship that may lead to monetary benefits) include
transforming the I-Thou relationship into an I-It relationship where the Other becomes useful
in terms of meeting pre-conceived expectations, or a personal need. Other examples include
the moral norms that prevent exchanging information about someone else’s personal life into
data that can then be sold to various segments of the market culture. It also includes being
honest, mutually supportive, and reliable reciprocal relationships.

As these aspects of the moral and spiritual commons differ widely among members of
the community, with certain moral values shared more than others, it is important for people to
be explicitly aware of them. Most of the moral commons, as well as the spiritual commons
that are shared by different groups, are part of the taken-for-granted cultural patterns—and thus
are difficult to be aware of. Thus, the need to name these patterns, and to help students
Incorporating a discussion of the spiritual commons into the curriculum, which should be delayed until the later grades, is relatively easy in that it involves students learning how different religious and spiritual traditions understand the commons—such as special and highly symbolic days and events that transform the members of the group from the routines of daily life to an awareness of being connected to a broader and more elevated purpose. Learning about the differences in the spiritual commons involves learning from representatives of various religious traditions about what they regard as sacred and what they understand to be included in the spiritual commons. It would also involve learning how the members of the different religious traditions think about the ways in which their traditions are being enclosed. For teachers and professors who share the late Francis Crick’s skepticism about the non-measurability of spirituality, I suggest that they read Rabbi Michael Lerner’s *The Left Hand of God* (2005) for one of the deeper understandings of the connections between spirituality and the values that sustain the cultural and environmental commons. A starting place for acquiring the background knowledge for helping students to understand how other religious traditions understand the commons is *World Views and Ecology: Religion, Philosophy, and the Environment* (1994), edited by Mary Evelyn Tucker and John Grim. Any discussion of how different religions understand the moral and spiritual commons should also involve learning how they reconcile the adoption of market values and practices with their core religious beliefs.

Learning about the moral commons, which should start in the early grades, begins with not only naming the patterns of moral reciprocity in different social and environmental contexts but also participating in discussions of personal experiences that arise when different norms that are usually taken-for-granted are ignored or deliberately violated. The challenge will be to identify the different situations in which the moral norms govern the relationship and activity—which may range from the moral commons that are an aspect of an athletic event, an artistic performance, a conversation, the encounter with a strangers, the person that has been victimized—and the victimizer, the young and old, and the treatment of animals.

Documenting the many expressions of when the moral commons is being kept alive, and even expanded, should include considering the many cultural forces that are undermining the moral commons—and even the spiritual commons. This may lead to considering the many
ways in which the consumer culture, with its emphasis on individualism, progress, and instant gratification, contributes to the enclosing of the moral commons. The enclosure may take the form of indifference toward mutually supportive relationships, communicating contempt for what is regarded as a constraint on individual freedom or the imposition of an unwanted sense of moral certainty upon others. The pressures and cultural assumptions that underlie “road rage” would be a good place to start when helping students understand the cultural roots of a growing disregard for sustaining the moral commons. The excessive claims of scientists who have strayed onto the slippery slope of scientism needs to be examined as a threat to the moral commons—and this area of inquiry should consider the nature of the moral commons that would be the outcome of taking seriously that natural selection determines which expression of moral reciprocity is the better adapted. To put this another way, this would involve considering the moral implications of assuming that nature selects the better adapted behaviors (that is, memes).

**Landscapes**

This word is used to refer to many aspects of the cultural and environmental commons. While the word has a specific meaning for artists, it can be more accurately understood as the patterns of cultural and natural phenomena that we encounter with all our senses. That is, sight, sound, smell, and touch. Thus, the landscapes we move through are experienced as multi-dimensional; they are even part of our memories and stories. Other words often used to refer to different aspects of landscapes include “habitat,” “place,” “nature,” “scenery,” and “built environments.” Each of these words indicates a particular perspective and tradition that foregrounds what is relevant while putting out of focus other features of the landscape—which is always local in that it is an inextricable part of what humans’ experience.

The multiple ways in which landscapes are enclosed by different cultural values and ways of knowing make them an important part of commons education—especially if students are to acquire the vocabulary that will enable them to articulate their concerns about the different ways in which landscapes are being transformed by market forces.

In the broadest sense, landscapes include the fields, streams, grasses, trees, mountains, and sky—as well as the built environment of fences, roads, buildings, planted fields, and so forth. Streets lined with in-your-face bill boards and the mixing of architectural styles are also
examples of landscapes, as are the rows of nearly identical houses and the lone farm house whose starkness is not softened by flowers, shrubs, and trees.

Rural and urban landscapes possess the combined elements of culture and nature—with their respective forms of enclosure having a direct impact on human experience. Farmers who want to squeeze the maximum profit from the land too often eliminate the vegetation along the sides of their fields, and in the process eliminate the habitat needed for birds, field animals, and other species that make up the local food web. The use of seeds that have been genetically altered to resist herbicides such as Roundup also alter the landscape in multiple ways that affect our experience of the fields as part of the landscape. Its destructive impact on the web of life, which goes deep into the soil, is what should be recognized. Unfortunately when the uniformly planted fields appear free of “weeds” there is little interest in thinking about the true environmental legacy of Roundup. Urban landscapes are also affected by the beliefs and values that have their roots deep in the dominant culture. The urban landscapes may communicate that consumerism is the dominant activity and the basis of human relationships, and they may also be read as the expression of a culture that values the new over the old—which is too often the conscious intent of the architects and business owners. In both rural and urban landscapes, there are constant visual reminders of the power of modern technologies that are imposed on what was a natural landscape.

The complex nature of landscapes, particularly how nature and culture merge together in daily experience, is touched on in only the most superficial way in most environmental education classes. The changes in local habitats, the sources of pollution in nearby streams and lakes, and the strategies for restoring degraded environments such as wetlands which are the main foci, seldom touch on the nature of the cultural commons. The students are given only half of the vocabulary that is needed to address the systemic sources of the deepening environmental crisis. The silences result in a limited ability to exercise communicative competence, especially when the promoters of a further expansion of the industrial, consumer-oriented culture justify new forms of enclosure by invoking the god words of “progress,” “freedom,” “patriotism,” and “innovation.”

A number of characteristics of rural and urban landscapes can be introduced in the early grades. These characteristics include what has not been fundamentally altered by cultural practices. What has been altered are often examples of enclosure of the natural environment.
Drawing upon the students’ experience in different landscapes, such as shopping malls and parking lots, forests, open fields, street corners, etc., can provide the contexts for discussing how different forms of enclosure can be detected through the student experiences of smells, sights, sounds, and tastes. Getting students to pay attention to their own senses in these different landscapes, and to name what they are aware of, is the first step in making them more aware of their surroundings. At this level of education, students might keep a record of the different animals, birds, and insects they encounter in these different settings. What is important is for them to become aware of the environments they inhabit and thus how different environments (high-rise buildings and streets filled with cars, open fields, parks, rows of suburban houses, back-ally dumpsters, etc.) influence which animals and birds will likely be found—and how different environments influence human activity and relationships.

As students move into the middle and upper grades it should be possible to introduce how different cultural ways of knowing have influenced the human impact on the landscape. Where were the trails of the indigenous cultures, and how do they differ from the modern system of roads and freeways? What cultural assumptions and values account for these differences? How does the modern approach to agriculture differ from how indigenous cultures met their need for food, medicine, and other daily necessities? Perhaps more important would be to have students investigate how modern agriculture, including corporate approaches to agriculture, have contributed to the disappearance of native grasses and other plants. How the use of chemicals have reduced the number of pollinator insects would also be important to investigate.

Other aspects of local landscapes that have been shaped by Western assumptions include how painters have represented landscapes at different times in American history, the source of ideas that led to imposing on the landscape the rectangular grids that are so visible from the airplanes as one crosses the country; the ways in which architects and builders often ignore using local materials and designing buildings that fit the local context; the influence of different religions and ideologies on conserving landscapes or exploiting them for economic purposes. This latter theme needs to be refined so that the question becomes: How do different religions, including non-Western religions, represent humankind’s responsibility toward the environment? And a further refinement about the relation of ideologies and landscapes leads to asking: Do ideologies such as market liberalism, social justice liberalism, Marxism, libertarianism, socialism, conservativism (in the tradition of Edmund Burke and Wendell Berry)
provide clear moral guidance on what are appropriate and inappropriate ways of relating to the land?

The many ways in which landscapes are enclosed (monetized and privatized) would include examining how they are represented in the media (including the movies and television commercials, the Western tradition of an individual perspective and how this reinforces the experience of being an independent observer of the landscape, the way in which the vocabulary as well as the technologies of the industrial, consumer-oriented culture enclose both the vocabulary necessary for naming and thus recognizing the non-monetized value of local landscapes as well as how technologies such as iPods, laptop computers, and video systems now built into cars reduce awareness of the landscapes their users are moving through. These technologies not only insulate their users from the sounds and smells, but also from the plants, animals and other aspects of the visual landscape. What their attention is focused on are the media products of the consumer culture—which are the result of other forms of enclosure of the cultural commons.

**Built Environments and Craft Knowledge**

The design, use of materials, and craftsmanship in most of the world’s cultures have been dependent upon the intergenerational knowledge that is passed along and added to as each generation introduces its own improvements and modifications. That is, the knowledge basic to vernacular approaches to built environments, such as buildings and the layout of social space for different kinds of human activity, was part of the cultural commons. The design and aesthetic embellishments often were an expression of the culture’s religious cosmovision—which reflected the culture’s deepest origins in the past, and which provided the moral guidelines for living in the cultural and environmental commons.

The modern industrial approach to the design and construction of built environments is profoundly different from the vernacular approaches that were less influenced by monetized relationships. In the modern industrial approach the design team, sources of technologies and building materials, and paid workers often have little or no connection with the local culture. In recent years there has been a reaction to the industrial design and use of building materials, with more attention now being given to local context, achieving greater energy efficiencies, and the use of local building materials. One example of this shift can be seen in what Sim Van Der Ryn and
Stuart Cowen advocate in their book, *Ecological Design* (1996). The five principles of design include the following:

**First Principle: Solutions Grow From Place**
Ecological design begins with the intimate knowledge of a particular place. Therefore, it is small-scale and direct, responsive to both local conditions and local people. If we are sensitive to the nuances of place, we can inhabit without destroying.

**Second Principle: Ecological Accounting Informs Design**
Trace the environmental impacts of existing or proposed designs. Use this information to determine the most ecologically sound design possibility.

**Third Principle: Design With Nature**
By working with living processes, we respect the needs of all species while meeting our own. Engaging in processes that regenerate rather than deplete, we become more alive.

**Fourth Principle: Everyone is a Designer**
Listen to every voice in the design process. No one is participant only or designer only: Everyone is a participant-designer. Honor the special knowledge that each person brings. As people work together to heal their places, they also heal themselves.

**Fifth Principle: Make Nature Visible**
De-natured environments ignore our need and our potential for learning. Making natural cycles and processes visible brings the designed environment back to life. Effective design helps inform us of our place within nature.

The fourth principle, “Everyone is a Designer,” needs to be qualified in order to take account of the way in which many people raised in an industrial, consumer-oriented culture bring this form of consciousness to how they think about design and to their aesthetic judgments. In reducing people to a wage earner and a consumer, many individuals have become rootless and thus short term inhabitants of place. The result is that their knowledge and commitment to place (in the way Van Der Ryn and Cowan are using the word) is likely to be superficial, leaving them thinking of place as where they live in relationship to schools, freeways, and mega-stores. When rootless individuals have more money or access to credit cards than knowledge of the local cultural and environmental commons, their sense of good design will more likely reproduce the garish mix of houses and commercial buildings that are often better suited for other climates and cultural traditions.
There are many ways of introducing students to the differences between local knowledge of sustainable built environments that has been accumulated over generations of living in a bioregion, and the knowledge that leads to buildings that reflect the assumptions of the industrial culture. Observing, thinking, and discussing the differences help to develop the vocabulary and awareness necessary for participating in democratic decision making about what is being lost as a result of the further expansion of the market culture.

Like the encounters with other areas of the cultural and environmental commons, developing the concepts that highlight relationships, the vocabulary that fosters awareness of what was previously unrecognized and thus unspoken, as well as introducing students to the differences between a knowledge of a craft and the industrial mode of production can begin in the early grades. Students can discuss the difference between their own experience of assembling something that has been industrially produced and the experience of a craft person such as a weaver or potter whom they have observed and listened to.

This is also the starting point for learning about the different mentors in the community, including the extent that the mentors rely upon a knowledge of local materials, the intergenerational traditions they learned from, and their way of understanding of how traditions of creativity, from jazz to folk music, are both sources of empowerment and individual expression. It should also be possible to introduce in an elementary way the complex nature of context such as weather patterns, physical nature of the environment, the plants and animals, and the traditions of adopting the design and placement of building to the local setting. This can be introduced by showing pictures of rural houses in Japan, of the dwellings that the Dogans have adapted to fit the region of Mali that they have inhabited for generations, and of modern buildings where the temperatures require the use of air conditioning (which can be compared with the approaches to cooling living spaces in the vernacular designed buildings). Through the use of photographs, the differences in aesthetic judgment that lead to the interior spaces and furnishings of a Japanese rural dwelling (including the aesthetic nature of their tools) and the rooms and furnishings of a typical American house can be discussed. Young students are capable of observing and articulating what they see as the differences, and even to begin discussing the differences in cultural values and approaches to individual development.

As students move into the middle grades, it should be possible to begin examining the ecological consequences of relying upon modern, industrially dictated design principles and use
of materials that do not take account of the characteristics of the local environment or the
traditions of the local culture. The high-rise glass encased buildings, such as the ones built in the
new capital of Brazil, in Malaysia, and other regions of the world, require vast amounts of energy
to cool them. Students need to consider where the energy comes from, and what impact the dams
have on local ecosystems—including the local people. As these people are displaced by the
damming of the local river, where are they displaced, and does their loss of knowledge of how to
live in communities that are largely outside of the money economy lead to their further
impoverishment? The discussion can be made relevant by asking students to compare the
differences in how people interact when shopping in a mega-store such as Wal-Mart with
shopping in small shops along the main street in their local community. In discussing the
connections between built environments, spaces in which people interact, and the strengthening or
the loss of a sense of community, they are learning to think relationally—which means how the
participants in cultural and natural ecologies interact in supportive and destructive ways.

At the university level, students should learn about the impact of different ideologies,
including religions, on the local traditions of design and craft knowledge. Which ideologies still
promote the industrial system of design and production that continue to marginalize the ability of
craft persons to make a living in the local economy? Which ideologies are sensitive to cultural
differences in knowledge systems, and which promote the importance of conserving the world’s
linguistic diversity? This is an especially important concern as many of these languages encode
knowledge of how to live within the limits of the local ecosystems (which have been tested over
many generations). This knowledge has influenced the nature of the local built environments
which, in turn, have influenced the culture’s impact on the landscape. In some instances, there is
evidence that humans have been living in the same bioregion for hundreds of years without
fundamentally altering the capacity of local ecosystems to renew themselves.

The history of ideas that relate to different aspects of built environments as well as the
importance of crafts need to be part of the university curriculum. These histories should be
approached from the perspective of different cultures. The one theme that connects them is the
rise and spread of the West’s industrial, market-oriented form of consciousness, and how this
form of consciousness continues to undermine the diversity of the cultural and environmental
commons. As this theme is brought into focus in these histories, the question that should be
raised is: What role have Western universities played in the ongoing process of cultural colonization that we now refer to as globalization?

If teachers feel themselves lacking the knowledge necessary for introducing these and other aspects of the cultural and environmental commons, they can invite speakers such as architects, landscape architects, and urban planners who have different ways of thinking about built environments. They can also invite trades people to discuss their understanding of building materials, the difference between the form of work dictated by an assembly process and a craft such as woodworking, and the traditions they rely upon in framing, wiring, and installing the plumbing system in a house--and how they understand their responsibility. Out of these presentations will come the questions and the issues that should be of central concern to the students who view themselves as future practitioners of these arts and skills.

Technology

All cultures rely upon technologies. As Jacques Ellul points out in The Technological Society (1964), there are fundamental differences between the technologies of modern Western cultures and those of non-Western cultures. One of the basic differences is that many non-Western technologies do not undermine the local cultural and environmental commons in the way that many modern Western technologies are designed to do. This difference can be accounted for by the fact that the modernizing technologies of the West are increasingly relied upon as the engine for expanding the economy. While many of these Western technologies have made important contributions to the quality of everyday life in both the West and non-Western countries, some technologies, such as computers, electricity, print, the internal combustion engine, and so forth, have a Janus nature in that they contribute both to the vitality of the local cultural commons while at the same time strengthening the economic forces that are enclosing them.

Historically, public schools and universities have provided the conceptual basis for developing new technologies, including more ecologically sustainable technologies. Unfortunately, there are few classroom teachers or university professors who encourage students to think about the cultural transforming nature of different technologies, how they impact the local commons in different cultures, and how they contribute to the West’s market liberal goal of economic globalization. The result is that most students graduate from public schools and universities with the mistaken idea that new technologies are both the expression of progress and
are, at the same time, a culturally neutral tool. This taken-for-granted way of thinking about technology effectively depoliticizes for the vast majority of people the different uses of technology, as well as the all important question of who benefits from their adoption. Introducing students to thinking about different aspects of the cultural commons (i.e., food, arts, narratives, landscapes, built environments, and so forth) that were discussed earlier will inevitably involve bringing up issues that surround the impact of different technologies. However, if technology is not given special attention, students may get the idea that technology is inherently progressive in nature and thus beyond the need for questioning.

Starting in the early grades, several areas of misunderstanding about the nature of technology need to be addressed directly by raising questions that can be answered as students reflect on their own experiences. Asking students to reflect on their own personal experience with interacting with various technologies is yet another example of students learning to give words to what is too often part of the taken-for-granted background experience. A widely held view is that technologies, such as the cell phone and the computer, are sources of empowerment and convenience. In order to bring out how different technologies mediate human experience (that is, both facilitate and reduce or even eliminate aspects of human experience) students should be asked which aspects of experience are facilitated by different technologies—such as how a cell phone enables them to communicate by voice and now to send pictures. The other question that reflecting upon their own experience will help to illuminate is What cannot be communicated that is part of face-to-face communication? That is, can the non-verbal patterns of communication that influence how relationships are to be understood, as well as the importance of social context be communicated through a computer?. As many of these patterns of non-verbal communication are taken-for-granted by students, the teacher may need to name the different patterns and perhaps even to point out the cultural differences. The question of what other aspects of the cultural commons cannot be stored and communicated through a computer can also be addressed at this level. It is vitally important that students understand the differences between the oral traditions of the cultural commons and what can be stored in and retrieved from a computer.

Another feature of some technologies can be introduced in the early grades, but deserve to be considered in more depth at later stages in the educational process. That is, some technologies alienate people from one another, while other technologies enable people to develop their personal interests and talents. Both assembly line approaches to production, as well as the
increasing automation of work, alienate workers from exercising personal judgment and from mastering a craft. An assembly line can be simulated in the early grades in a way where students are responsible for only one segment of the production process. Following this experience, they can be asked to discuss how this affects their relationships with others as well as their sense of responsibility for aesthetic judgment and quality of workmanship that goes into the production process. The assembly line could be set up in terms of preparing a meal, or painting a picture where each student is responsible for using a specific color.

A third feature of technology that can be introduced in the early grades is the way in which some technologies enable people to exercise control over others. The advertising on cereal boxes can be discussed as an example of a non-mechanical technology that influences what children will want to eat for breakfast, and how the images on the box and the use of sugar and other chemicals may lead to rejecting the breakfast based on the intergenerational knowledge of the parents or grandparents (which is an example of the cultural commons). Comparing the technologies that are the basis of “fast food” available in the school cafeteria and at the local McDonalds with the technologies associated with the slow food experience (local gardens, meals prepared by and shared with parents, ethnic tastes, and so forth) will also help students in the early grades to be aware that different technologies are not a neutral tool—and that they may limit important aspects of experience.

As students move into the higher grades the issue of whether new technologies are always the expression of progress needs to be examined. This question should lead to an exploration of the political, economic, and ecological impact of different technologies. Again, the discussion needs to be framed in a way that enables students to assess different ways of thinking about technologies that they have experienced in daily life. These discussions may range from how automation, and the ability to locate the technology in a low-wage region of the world, reduce the need for the parents’ knowledge and skills, to how other technologies reduce the need for physically demanding labor that have no redeeming qualities. It might also include a discussion of the forms of knowledge that are made irrelevant when the farmer purchases genetically engineered seeds, and how the use of the iPod reduces important dimensions of the bodily experiences that are part of being aware of the sights, sounds, and smells of the local environment. There are other questions about how different technologies affect interpersonal relationships, where one stands in the social status systems, who benefits and who loses in the use
of different technologies, and how different technologies have influenced the use of language and patterns of thinking.

At the university level, the history of ideas that led to marginalizing technology as an important part of cultural studies needs to be given a central place in the students’ education. Students need to learn about the differences between the technologies of cultures that have developed in ways that are more centered on living within the limits and possibilities of their bioregion, and the technologies that facilitate the process of colonization and have contributed to massive and possibly irreversible changes in the Earth’s ecosystems. How the development and use of different technologies have been influenced by a culture’s mythopoetic narratives and, in the West, by different religious beliefs and ideologies also needs to be studied. As modern science has become increasingly a source of new technologies that lead to new markets that further enclose the commons, students need to learn to distinguish between science and scientism, and how the latter leads to the development of technologies and markets that are both ecologically, politically, and morally problematic. The current efforts to explain how cultures are subject to the same process of natural selection that operates in the biological world would be just one example of the growing influence of scientism. Efforts to provide a scientific explanation of consciousness and to develop drugs or to locate the genes that affect both consciousness and memory are other examples that easily come to mind. The proposal to create a “gene-rich” line of humans who will perform the intellectually challenging tasks of society, while the “naturals” will be responsible for the hard work, is yet another example of scientism. As science now has such a direct impact on many aspects of cultural life, the question of what are the limits of scientific knowledge needs to be discussed—especially now that science provides the basis for the rapid advances in the development of surveillance technologies that are threatening our traditional freedoms.

In effect, studying the history of different technologies, their impact on the different cultural and environmental commons, and their role in colonizing other cultures, is essential to developing the vocabulary necessary for being able to participate in democratic debates about which technologies should be adopted and which should be rejected. Possessing the language that makes explicit different aspects of technology is essential to communicative competence, and communicative competence is necessary if people are to begin to democratize technological decisions.
An example of how the public schools and universities have failed to adapt their curricula in ways that enable their graduates to have an informed voice in deciding whether an important part of the cultural commons is being enclosed by recent advances in computer technology is the way in which our personal behaviors (consumer habits, travels, interactions with others), as well as the ideas we communicate over the cell phone or as an email message, are now under constant surveillance by corporations, government agencies, and even by other individuals we do not know. The transformation of what previously was our private life is now being transformed into data that is evaluated by people and computers that use criteria we are unaware of. Increasingly, the evaluations of the data gathered on our personal lives are based on concerns about national security and the marketing of products. Individual privacy, at least in most Western countries, has long been valued as an essential part of the cultural commons.

In most instances, the loss of privacy is directly tied to another tradition of the cultural commons that is also being undermined: namely, the right of the people to vote on what constitutes an appropriate and inappropriate use of this technology. Students need to consider the differences between a democratic and a surveillance society, as well as how a surveillance society impacts the cultural commons. There is also the question of the difference between a surveillance society and a police state—or what more properly should be called a fascist society. This question should lead students back to a consideration of how the diversity of cultural commons across America represents sites of resistance to the many ways computer technologies contribute to the centralization of political and economic power in the governmental agencies and corporations that collect and share the data.

Another issue that needs to be the focus of a discussion by faculty is whether the curricula taken by students going into computer related fields should include in-depth discussions of the moral and political issues that are raised by each new advance in the surveillance capacity of computer-based technologies. Do university graduates working to develop the technologies that will collect information on the products people purchase, that collect data on peoples’ searches on Google, that can listen in on our cell phone conversations, understand that there are moral and political issues connected with the introduction of each new technology? Or do they simply assume that all forms of technological innovation are the expression of progress—and that there are no good reasons for questioning progress?
Civil Liberties

The form that civil liberties take in English speaking countries, as well as the different approaches taken in other countries, can be traced to historical events that led to the creation of laws that limited the power of government by codifying the rights of individuals. Among the historical events that contributed to the establishment of civil liberties that are now part of our cultural commons includes the signing of the Magna Charta in 1215 by King John, the abuse of power by a variety of absolute monarchs, the wars in Europe between 1485 and 1789 that were driven by religious differences between powerful despots, and the Enlightenment thinkers that laid the conceptual foundations for democratically elected governments.

As our civil liberties are under attack from a variety of sources, including the growing dominance of market liberalism, the spread of surveillance technologies, and religious fundamentalists who want to overturn the separation of church and state as well as our checks and balances system of government, it is vitally important that students understand how what remains of our civil liberties are being enclosed. They should also understand the consequences that will be faced if we proceed down this slippery slope.

If students do not understand the nature of the civil liberties that previous generations have relied upon and worked to extend to minority groups, the cultural and environmental commons will be further undermined—for the sake of profits and control by authoritarian groups. These civil liberties include habeas corpus which protects against unlawful restraint by government, the rights of individuals guaranteed in the Constitution, the separation of church and state, an independent judiciary (that is, free of market and religious ideology), the presumption of innocence until proven guilty, rule of law, and so forth. The focus of learning about this critically important part of the cultural commons should be about the nature and origins of our civil liberties, as well as about the different ways they are being threatened and thus enclosed. It is important to reiterate an important characteristic of the political process: if the students (and later as voters) cannot name their civil liberties and do not understand their importance, they will be unable to resist their elimination. It is likely that they will not even be aware that certain of their civil liberties have disappeared. Unthinking patriotism, which serves the interests of politicians who seek power by playing on the fears of the American people as well as pursue policies that make these fears appear legitimate, leads, as we have just witnessed, to the willing surrender of our rights to privacy to the National Security Agency. The use of Orwellian language contributes
to the current trend whereby people who are speaking out in defense of our civil liberties are being accused of being un-American and “appeasers” of the enemy.

When the traditions of civil liberties cease to be part of the cultural commons, decision making will then be centered in the hands of powerful coalitions of political and corporate elites, along religious extremists who will provide the governing moral codes that will justify ignoring the spread of poverty and environmental devastation. Local democracy and the diverse traditions of intergenerational knowledge that are the basis of community self-sufficiency will be replaced by the market forces that will separate the righteous from the unrighteous (for the religious fundamentalists), the better adapted from the less well adapted (for the proponents of natural selection), and those who are driven by competition from those who have been marginalized or do not have the competitive drive to make profits the primary goal in life. The loss of our civil liberties will coincide with the further enclosure of the cultural and environmental commons—and as the this process accelerates, the further degradation of the natural systems we depend upon will lead to the kind of economic chaos that will cause people to demand an even greater centralization of power in the government that is responsible for the crises in the first place.

**Language**

The examples given above of how to connect language and concepts with the different levels of the students’ experience and background knowledge also serve as models of how to introduce students to other aspects of the cultural commons that are now being enclosed. An aspect of the cultural commons that is often overlooked as an example of what is shared on a non-monetized basis and available to everyone not limited by the culture’s class system and prejudices is the way in which language is being enclosed. The enclosure of language can result from new technologies, from the marginalization of collective memory as a result of an emphasis on progress and the sense that the past (and the language that sustained it as memory) are sources of backwardness, and from different modes of inquiry and the narratives they promote—such as science and its narrative of evolution. Carl Sagan argued that the scientific mode of inquiry is the only one that is self-correcting and thus is universally valid—and that all traditional ways of knowing and valuing are examples of backwardness and superstition. E. O. Wilson, as well as computer scientists such as Ray Kurzweil, argue that evolution should replace all existing religious traditions. Market-liberal and Christian fundamentalists have a different vision of the
future. As they came to power we can see how their policies repressed the language used to articulate social justice and environmental issues, as well as the languages of non-Western cultures.

At the high school level it should be possible to examine the words and patterns of thinking would be silenced or marginalized by taking-for-granted the cultural assumptions about the autonomous individual, a mechanistic model of life processes and relationships, and an anthropocentric way of thinking about human nature relationships. At the university level the way in disciplines are based on different assumptions, along with the vocabulary that supports them, can lead to asking whose language is being suppressed or marginalized. For example, do disciplines such as psychology and cognitive science marginalize the languages that reproduce the differences in cultural ways of knowing—including the language they use to pass on the intergenerational knowledge of their cultural and environmental commons? How does the theory of evolution, when extended as the basis for understanding which set of cultural memes are better adapted for survival, marginalize the importance of indigenous languages, or the language necessary for clarifying the limits of evolution as an explanatory theory. What does the metaphor of “meme” serve to illuminate and hide? Does it marginalize the language necessary for justifying a democratic form of society, or does it contribute to the revival of social Darwinism? How do courses in economics marginalize the language that is used in mutual support activities where work is returned rather than paid. And does the language of mainstream Western philosophy marginalize the language necessary for thinking and communicating about the commons? Each of the disciplines can be examined in terms of how its vocabulary illuminates and hides—with what is hidden being an example of enclosure.

Other Characteristics of the Cultural Commons

. Even the traditions of scholarship that were examples of the cultural commons, (that is shared on a non-monetized basis) are now under threat. One of these long-standing traditions is being enclosed as recent changes in copyright laws now recognize scholarly writing as private property. Other examples of enclosure of the cultural commons that allowed for the free exchange of knowledge and discoveries is being undermined by the merging of scientific research with corporate interests. This has resulted in the early patenting of research results and the growing sense that new knowledge must have market value. Even old knowledge that used to be freely available at the local library is being digitized and sold as a consumer product. .
Having students attend a county fair would provide an opportunity to identify the range of knowledge that enables members of the community to grow different kinds of flowers, practice the various needle crafts as well as weaving and fiber arts, preserve a wide range of food—from berry jam to chutney, care and feeding a wide range of domestic animals, and performing on musical instruments. The county fair represents just part of the varied practices of intergenerational knowledge that sustain the local cultural commons. Each area of knowledge and craft skill can be used for examining how the forces of modernity and consumerism is contributing to their enclosure. Other crafts might include boat building, cabinet making, and designing children’s toys. The knowledge connected with various games that range from playing chess, many card games, to soccer is passed along from generation to generation—but are now being enclosed by becoming part of the growing computer-mediated market place.

The mutual support systems of the community, which range volunteerism to working on community environmental restoration projects, also need to be examined if the students are to have the experience of “giving back” and of being part of a mutually supportive community. The general silences in the media and most areas of the curriculum at both the public school and university level about these non-monetized forms of personal and community enrichment are a major factor in enclosing these aspects of the cultural commons. The hyper-consumerism, as well as the low paying jobs that force millions of people to work at several jobs in the same day, reduces the time that people have for participating in various activities that sustain the vitality of the local cultural commons. In effect, the growing dependency upon a money economy that is both addictive, and that reduces the free time necessary for non-monetized pursuits, represents yet another form of enclosure. Free time, which we seem to want more of--yet are unable to attain, is a part of the cultural commons that is essential to the continued renewal of the other aspects of the cultural commons. If there is no free time, then it becomes impossible to participate in activities that strengthen the commons.

**Education that Sustains the Environmental Commons**

When environmental education is treated as a separate course the question of how humans are impacting natural systems is generally approached from a scientific perspective . The larger issue of what is happening on a global scale maybe a background concern, but the main focus is generally on the changes taking place in local ecosystems. The curricular focus thus varies with the characteristics of the local bioregion. Specific issues such as the rapid disappearance of
sagebrush may be the focus in schools located in the prairie regions of the country, while the pollution of the air is likely to be a focus in densely populated urban areas, and the changes in the chemistry of local lakes, streams, and oceans being the focus in nearby schools. Regardless of the bioregion, there are more general issues that are studied in environmental education classes. These include the nature of invasive species, how the loss of habitat contribute to the loss of species—which, in turn, will focus on different kinds of habitat and species loss.

In the Northwest, the focus may be on changes in the nearby stream beds that limit the ability of salmon to reproduce themselves, how the clear cutting of forests reduces the habitat needed by different species of birds and small mammals, and how the dams and changes in water temperature impact the number of salmon that return to spawn. Across what was formerly the great plains covered with native grasses, the focus now may be on the loss of species that result from the use of herbicides, the impact of irrigation on local aquifers, and the farming techniques that contribute to the loss of topsoil. In other bioregions, the main focus will reflect essentially the same set of relationships: namely, how the manifestations of the industrial culture, with its reliance upon toxic chemicals and more efficient technologies, impacts the local environment. In the New England states bordering on the Atlantic Ocean, the environmental education class may address the changes in the use of technologies and the chemistry of the water that are affecting the number of lobsters and other species of fish that local economies depend upon. Even though the focus on how changes in local habitats affect the diversity of species may differ from bioregion to bioregion, students are learning how to collect data on changes occurring in the local ecosystems and to understanding the characteristics of healthy ecosystems. In many instances they are learning how to restore degraded ecosystems by relying on scientific research.

Increasingly environmental education courses are incorporating what is being learned about mapping green spaces, how to understand the environmental issues that need to be taken into account in various approaches to development, and how environmentally oriented architects are designing buildings that are more energy efficient and less polluting. Some instructors even encourage students to learn how public officials make decisions that may or may not take into account the impact on natural systems. While there are many important issues discussed in environmental education classes, there are silences that reflect the silences in the education of the science professors who teach the courses that constitute the major area of academic concentration.
and the pedagogy-related classes that are required as part of the environmental education teacher’s professional studies.

These silences include a knowledge of the diversity of the world’s cultural commons, the nature and importance of what remains of the local cultural commons that are alternatives to the environmentally destructive consumer-dependent lifestyle—that, ironically, scientific knowledge has helped to expand on a global basis. As pointed out earlier in the chapter, if environmental education is understood as a stand-alone course it is likely that the silences will be perpetuated. And the result will be that students, when they reach adulthood, will continue to think that environmental issues are important but will not recognize that their consumer dependent lifestyle makes their environmental concerns little more than a ritualistic word game. More importantly, the silence about the nature and importance of the cultural commons, as well as a knowledge of the different forms of enclosure that result from new technologies and the spread of market liberal policies that are packaged under the misleading label of conservatism will reduce the ability to recognize when different aspects of the cultural commons are incorporated into the industrial system of production and consumption. In effect, when environmental education does not include the changes occurring in the world’s diverse cultural commons, it leaves students with a basic misunderstanding: namely, that working to restore habitats, to reduce pollution, and to introduce the technological changes necessary for limiting the rate of global warming should be the main focus of environmental stewardship.

Unfortunately, these laudable goals leave out the importance of understanding the cultural assumptions that still give conceptual and moral legitimacy to the industrial culture that is now being globalized. They also ignore the importance of learning that part of the answer to the global crises we are now facing, which includes growing poverty as more people are forced to live within a money-dominated economy as well as the decline in natural resources that humans depend upon, can be found in the non-monetized, mutual support systems in the local communities. In not understanding the ways in which the industrial consumer-oriented culture, along with its legitimating ideology, are enclosing what remains of the local cultural commons, the possibility of widespread political support for resisting various forms of enclosure will be lacking. This failure of local democracy to protect the local cultural and environmental commons can be seen in the way in which energy–oriented corporations, with the aid of Congress and the President George W. Bush are degrading local environments wherever there is the possibility of
finding new sources of energy necessary for the support of the gas-inefficient SUVs and super-sized houses. The failure of local democracy can be seen in how the industrial culture is enclosing other areas of the cultural and environmental commons—from intergenerational foods, municipal water systems, to the privacy of individuals. As stated earlier, understanding the cultural assumptions that have marginalized an awareness of the cultural commons as sites of resistance to the industrial culture, as well as the ideas and values that now justify its globalization, require the participation of classroom teachers and university professors who are knowledgeable about a variety of disciplines—including the assumptions these disciplines have been based upon and how they need to be transformed.

Chapter 5 The Ideological Context of Commons Education

If there is any hope of making the transition to a less consumer-dependent future, and thus to one that is more ecologically sustainable, it will be necessary to recognize the sources of resistance that lie ahead. One of the criticisms that will come from people who are in denial about global warming and the other forms of environmental degradation is that the educational reforms being suggested here will have the effect of politicizing the process of learning. Just as many people think of technology as a neutral tool, that language is a conduit for communicating objective information, and that continual progress is our manifest destiny, they also embrace the idea that education is (or should be) a politically neutral process. There are other more ideologically and religiously based sources of resistance to educational reforms that contribute to the revitalization of the cultural and environmental commons. Before examining these sources of resistance, it is first necessary to consider the misconceptions that underlie thinking of education as a politically neutral process.

Recognizing the political nature of educating students about the largely non-monetized aspects of the local cultural and environmental commons is essentially correct. However, the widely held idea that it is possible to have a non-political form of education is a combination of ignorance, romantic thinking, and indoctrination that is still perpetuated by many classroom teachers and university professors. In order to put in perspective why we should not protest what is as inevitable as learning to speak and think
in the conceptual categories we acquire from our cultural/language community, it is first necessary to understand what can be called the micro-level of politics. Basically, the political nature of language can best be understood in terms of Michel Foucault’s way of understanding the exercise of power, which he describes at the micro-level as an “action upon an action”. That is, an action such as the spoken word and even a glance that communicates astonishment or disagreement can lead to a change in the behavior, thinking, and even self-confidence of the other. The micro-level of political action is the same as the micro-level of exercising power in human relationships—and even in relationships with the environment. The spoken and written word, for example, led the European immigrants to believe that they were “pioneers” in a vast wilderness even though they encountered on nearly a daily basis the inhabitants of the land. Similarly, referring to the environment as a “resource” caused many individuals to think in terms of exploiting it for profit. But an “action upon an action,” such as taking the child’s hand or calling out to her/him, may prevent the child from walking in front of an oncoming car. And exposing the lies of a politician, which is also an example of exercising power in Foucault’s sense, may contribute to some voters engaging in a more reflective judgment. As is often observed, when a lie has been exposed the politicians begin to issue press releases that are also part of the ecology of power that is both a reaction to the earlier exposure, and an effort to put their critics on the defense. When an action involves the use of racist language the exercise of power over the other may undermine her/his self-confidence—or lead to a greater sense of determination to prove the other wrong.

The key point is that the political, when understood as the exercise of power where an action changes the action of the other, is neither inherently constructive nor destructive. It is as inevitable as the way in which people use words and body gestures to communicate with others. What is not inevitable, however, are the ideas and values that influence how power is exercised—and thus the intent behind the exercise of power. And the intent may be unconscious or conscious, depending upon whether it is rooted in taken-for-granted prejudices and cultural assumptions, or based on a well thought out set of political priorities.

Most people who argue that education should not be political tend to think of the political in more traditional ways, such as associating with the macro-level of political
parties and their social agendas, with the policies of government, and with the pursuit of special interests. When the micro-level of politics is understood as operating at the level of language, which is metaphorically layered and carries forward the insights and misconceptions of earlier generations, its influence can be seen on every level of the macro-level of politics—from reducing governmental funding of family planning and justifying wars of aggression in the name of democracy and freedom to enacting environmental legislation. Language, whether used in print, spoken, or in non-verbal body patterns of communication—is never politically neutral. It always affects the thoughts and actions of others; sometimes in constructive and sometimes in destructive ways. It may even be used in ways that create a sense of ambivalence about what is being communicated. The compliment communicated in the tone of voice that is interpreted as patronizing is an example that most people have experienced, which leads to the question of what action is an appropriate response.

The discussion here of the political nature of education, including educational reforms that strengthen the cultural commons in ways that resist the further expansion of the environmentally destructive industrial culture, will focus on the micro-level of political action that accompanies the use of words and concepts in every educational context. Later, the ideological and religious dimensions of the political will be discussed, as well as the strategies that educational reformers will need to consider. Some ideological and religious groups will be especially hostile to the idea of strengthening the cultural and environmental commons, even when it is justified on the grounds of contributing to a sustainable future. People holding other ideological or religious beliefs will be sources of support. The key to success of implementing the educational reforms is to understand the assumptions of these different groups and to speak to their assumptions.

The earlier discussion of how language carries forward and thus reproduces many of the values and patterns of thinking that were taken-for-granted in the past was more than an introduction to the political nature of language. While the political was only indirectly touched upon, the key reasons for understanding how the use of language represents an action upon an action were clearly spelled out. Here I shall only reiterate them.
(1) Root metaphors such as patriarchy, mechanism, individualism, and so forth, provide the conceptual or interpretative framework that influences how certain aspects of everyday reality will be understood—while other ways of understanding are marginalized or excluded entirely. Patriarchy foregrounds the positive attributes of men while marginalizing the possibility that women may possess the same attributes. As an interpretative framework, mechanism leads to an emphasis on observing, collecting data, experimentation, judging increases in efficiency and control; but it excludes considering the nature and sources of values and the influence of different cultures on ways of knowing. What a taken-for-granted root metaphor enables us to think, as well as what it hides in terms of awareness, represents how language involves the exercise of power—often in ways that the speaker or writer is unaware of.

2. The way in which the root metaphor influences the process of analogic thinking that occurred in the past, and that, over time, is reproduced in a highly reductionist way in such image words “data”, “intelligence,” “individualism”, is the expression of the micro-level of the political process. For example, if the ways in which other cultures value the nature of intelligence had been understood, rather than assuming that intelligence could be measured by having students take an English-based test, perhaps we could have avoided many of the injustices that resulted from the ethnocentric biases that were built into the test. Similarly, the image word “tradition” carries forward the analogies that Enlightenment thinkers unquestioningly accepted. Today, when it is not associated with holidays, many people view it as the source of backwardness, special privileges, and what stands in the way of progress.

If the Enlightenment thinkers had used the many forms of craft knowledge that were flourishing in their day as the analogs for understanding what the word tradition represents perhaps the word would have carried forward an entirely different meaning. This may have led more people to recognize that we need to resist the undermining of such political traditions as the separation of church and state, an independent judiciary, and the system of checks and balances. This more complex understanding might have led more people to think of traditions in terms of which strengthen community and have a smaller environmental impact, and which traditions carry forward injustices that were taken-for-granted in the past. The inability today of market and social justice liberals to
identify and argue for renewing the traditions underlying our legal and democratic systems is yet another example of how the politics of language played out centuries ago continue to influence current ways of thinking that are putting us on the slippery slope that is leading to an authoritarian future

3. The political nature of language can also be seen in the process of primary socialization. When a child or older person is learning something for the first time, the significant other communicates in body language and through the spoken word how the new situation or process is to be understood. Primary socialization may also take the form of learning something from a book or a computer monitor. The first time encounters may include the definition of the work that is to be done, the nature of technology, the meaning of the commons, and so forth. Regardless of the situation, when the individual is learning something for the first time has been given a limited vocabulary or words that carry forward the misconceptions of earlier generations, she/he will lack the communicative competence necessary for avoiding formulaic thinking. This process is inherently political, just as giving the individual an expanded vocabulary that fits more accurately the complexity of what is being learned leads to greater communicative competence is also political, but in an empowering way. When the public school or university curriculum is silent about the cultural mediating characteristics of computers, the nature of the commons, and the history of Western ideologies, these silences also serve as an action upon an action that contributes to the students’ inability to recognize the issues that should be given critical attention. Similarly, the silence (that is, lack of language and concepts) may also leave students with an inability to even recognize how different aspects of the cultural and environmental commons are being enclosed through a further expansion of the industrial culture. In not being able to recognize how aspects of everyday life that were freely available (or nearly so) are being integrated into the money economy that many people are less able to participate in, the students (and later as voting adults) will lack the linguistic means for challenging how the quest for profits leads to the spread of poverty and the loss of community self-sufficiency.

In effect, the silences in the curriculum limit the expression of local democracy. What is generally overlooked by public school teachers and university professors is their mediating role in the process of socialization, and thus their responsibility for providing
the language and concepts necessary for engaging in the political discourse that too often leads to the market-liberal fundamentalists privileging the agenda of corporations over the interests of local communities.

4. The language that is central to commons education is highly political, but its use may lead to sources of support from unlikely sectors of the community. The word “commons,” as pointed out earlier, refers to what is shared within the community on a non-monetary basis (or largely so). This includes the communal wealth of intergenerational knowledge, skills, activities, mutual support systems—and other aspects of daily life that the community has democratic control over.

As there are critics who want to claim, on the basis of having imposed their own interpretation on the one article they have read of mine, that I am even promoting intergenerational knowledge that passes on racist, exploitive, and environmentally damaging practices, I need to emphasize again that the social/ecojustice criteria identified earlier needs to be the basis for assessing what needs to be renewed and what needs to be challenged and rejected. Ironically, many groups that also work to achieve greater social justice are likely to be critical of commons education as it is not based on a theory derived from European thinkers. As many of these social justice advocates share many of the same cultural assumptions that underlie the industrial culture they criticize, they are likely to react negatively to any suggestion that many forms of intergenerational knowledge contribute to sustaining the cultural and environmental commons—and that sustaining the cultural and environmental commons fits more with the conservative thinking found in the writings of Edmund Burke, Michael Oakeshott, Wendell Berry, and Vandana Shiva. Among these liberal social justice activists, the word “conserve” is still wrongly associated with economic forms of exploitation, and with preserving the special interests of social elites.

The deep and inherently political implications of the word “commons” may be recognized by some members of the community—particularly those that are engaged in mutual support activities and in conserving what remains of the non-monetized activities and skills. In recent history, the word “commons” has always been used in conjunction with the word “enclosure,” which also has powerful political connotations. From the perspective of the segment of community that unknowingly relies upon both the cultural
and environmental commons, enclosure means transforming the wealth of relationships and interdependencies into a monetary form of wealth that excludes people whose skills and talents are no longer useful in an increasingly digitized industrial system.

It is difficult to judge how educational reforms that focus on how the cultural and environmental commons are being enclosed would be viewed by the diverse political groups spread across the country. There are several elementary schools in rural Vermont that have made the themes of food, ecology, and community the central focus of the curriculum from the first through the sixth grade. And there are an increasing number of public schools that now include as part of their curriculum the growing and preparation of food, and an understanding of how the use of intergenerational recipes differ from industrial prepared food. Concern about the problem of obesity among youth has led to efforts to replace junk food and drinks with what is more nutritious. But this does not involve a critical examination of the process of enclosure of parental guidance about what constitutes a healthy diet.

Public schools promoting place-based education, which includes learning about the local environment as well as how the community is addressing local environmental issues, are also providing an introductory approach to commons education. However, place-based education fails to present a more comprehensive understanding of the local cultural commons, as well as how it is being enclosed by the industrial, consumer-oriented culture. University courses that focus on community development, including the micro-economic possibilities within communities, also provide students with a partial introduction to the importance of the commons. However, what is missing in all of the approaches mentioned above is a comprehensive theory that takes account of cultural assumptions that underlie the industrial culture, the role of language in reproducing these assumptions even in the thinking of social justice advocates, an understanding of the diversity of the world’s cultural and environmental commons, and an historically informed understanding of the ideological forces that continue to influence the forms of enclosure that are legitimated in the name of progress. It is this theory that helps to ensure that the different sources of tension and conceptual double binds between the commons and the modern forms of enclosure are part of commons education.
To reiterate a key point, it is not the politicizing of education that is important; rather, it’s the ideology and the cultural assumptions it is based upon that have a greater influence on whether the student, as an adult, takes-for-granted the myths that equate progress and individual success with living a life of excessive consumption. Given the current rate at which poverty is spreading, with nearly sixty percent of Americans now living from paycheck to paycheck, and given the rate of environmental changes such as global warming, it is important to have a clear sense of how to judge whether the different approaches to commons education meet what can be called the principles of eco-justice. In earlier writings I identified five criteria that an eco-justice or what is now being referred to as a commons approach to education should meet. More recently, Rebecca Martusewicz and Jeff Edmundson have added a sixth criteria, and have elaborated on the other five in a far clearer way than my original effort. These criteria include:

1. The understanding of local and global ecosystems as essential to human life, as well as the recognition of the deep cultural assumptions underlying modern thinking that undermines those systems.
2. The recognition and elimination of environmental racism, such as the dumping of toxins in the communities of economically and socially marginalized peoples.
3. The recognition of how Western patterns of hyper-consumerism reproduce the exploitation in the Southern hemisphere by the North for resources--both natural and human.
4. The recognition and protection of the cultural commons; that is, the intergenerational practices and relationships of non-monetized mutual aid (relationships that do not require the exchange of money as the primary motivation for the relationship). An ability to think critically about what aspects of the cultural commons need to be reformed or renewed. Understanding the many ways in which the cultural commons are being enclosed—that is, being integrated into a money economy.
5. The recognition, protection, and establishment of earth democracy—that is, the decision making practices established to ensure the renewal of water, soil, air, plant life, and other living creatures in natural systems, and necessary to socially
just communities. Earth democracies are sustained by virtue of the spirituality and wisdom in many traditional and indigenous cultures that have created sustainable communities in balance with natural systems over hundreds of years.

6. The recognition and emphasis that local knowledge and practices should leave future generations a viable and healthy environment. (2005, pp. 72-73)

Education that meets these eco-justice criteria should now be part of what the general public, as well as educators at all levels of formal education, should take for granted. But this is not the case. Many indigenous cultures have not had to spell out these eco-justice criteria. Rather they have relied upon narratives, ceremonies, and mentoring as a way of intergenerationally renewing their wisdom of living in sustainable relationships with the environment. In our mainstream culture it is necessary to put the criteria into print. Taking these criteria seriously is the first step in initiating the political dialogue the people in the West must face up to having, and which must now be undertaken by people in non-Western cultures that are adopting the West’s consumer dependent lifestyle.

The key words in the above list of guiding criteria should be widely viewed as non-controversial. No one should be in favor of environmental racism. Morally-centered people should also be against a lifestyle that requires the “exploitation of the Southern Hemisphere.” The “commons” and the importance of conserving the “practices and relationships of non-monetized aid” are what all people rely upon in varying degrees—even when they have not heard about the commons. “Earth democracy” is a new phrase that will be unfamiliar to most people in mainstream culture. However, it should not be too difficult to extend the idea of democracy to the non-human forms of life that also must have the right to reproduce themselves. The entire world would benefit if we were to have a national policy of extending democratic rights (that is, the right of self-renewal) to the Earth’s ecosystems, rather than imposing our interpretation of democracy on cultures that do not share our view of individualism.

The last criteria has a number of phrases—“local knowledge,” “future generations,” and “healthy environment” that should not be widely controversial—even among the segment of the public that cannot name the three branches of the federal government, but
are instead focused on the coming of Armageddon. However, when these phrases are no longer represented as abstractions, but used to judge everyday lifestyles, they become highly controversial. While the suggestion that peoples’ values and daily practices should be guided by a responsibility for living by these phrases, the phrases too often become the flash-point that degenerates into friend and enemy form of politics—with the advocates of ecojustice seen as the enemy. It is truly astonishing that such a highly educated (which is different from well educated) and technologically developed people are so reactionary and so dependent upon cultural myths that were constituted before there was an awareness of environmental limits.

While it is important to learn about the belief systems and economic interests of individuals and social groups in the community that are overtly hostile to commons education, it is also important to adopt a more positive stance toward the diverse groups that make up the community. Unwarranted criticism will likely turn off individuals and social groups that may be learning for the first time about the nature and ecological importance of the cultural commons. There are so many cultural myths that adults have been educated to base their lives upon that are now being challenged by recent events that an educational process that helps to recover the knowledge, skills, and traditions of mutual support may receive widespread support in the community. These myths include that hard work will lead to life-time employment, a government that will protect our democratic institutions and not justify its policies through the use of lies, and a tradition of medicine that has as its highest priority the health of the people rather than profits for the pharmaceutical industrie. As public schools and universities have not taught about the many sources of empowerment in the cultural commons, the public generally does not have the background to know what to expect. The comment I hear most often from highly educated people when I mention the commons is that “we cannot go back to an earlier time.” The result is that people respond to this most ancient of human practices and moral code with a blank stare, followed by a change in conversation. However, the people who participate in the arts, community gardens, mentoring relationships, various crafts such as weaving and woodworking, volunteering in a wide variety of activities, and so forth, represent a support group that needs to be involved in helping to connect the students with the various commons activities within the community. What needs to be
kept in mind is that the sources of support are likely to be in the minority; which leaves the commons-oriented educators with the task of winning support from the consumer-oriented majority that sill believes in the myth of unending progress—even as many of them barely keep up with their credit card and house payments.

**Competing Ideologies and Other Language-Based Misconceptions**

An inevitable part of any educational process is the use of words and concepts that explain relationships. It is inevitable that many of the words and concepts will lead to misunderstandings. Earlier it was pointed out how different root metaphors, such as mechanism, progress, and patriarchy, influence which analogies will prevail in understanding new phenomena, and how these analogies, over time, become simplified as image words--such as referring to the mind as a machine, data as the outcome of objective observation, and mankind when referring to all of humanity. When infants learn the language of their culture, their patterns of thinking are influenced by these earlier interpretative patterns of thinking, just as the patterns of thinking of many adults become largely formulaic when they use words that reproduce the analogies they seldom question. Educators as well as the media are powerful sources of mis-education in that they pass on many of the misconceptions of earlier generations that are reproduced in the use of language. Because these misconceptions are widely shared, there is an ongoing process of mutual reinforcement—and marginalization of people who challenge the misconceptions. An example is the way William Buckley Jr. was for decades referred to as a conservative even though his magazine, The National Review, was used to promote the free-enterprise system that further encloses the commons. Referring to new technologies that deskill workers and lead to further unemployment as examples of progress is as widespread and as mindless as referring to an economic system that receives massive government subsidies as a free-enterprise system. Religious groups working to undermine the separation of church and state continue to be wrongly identified as social conservatives, and the members of congress working to undermine environmental legislation are mislabeled by journalists as conservatives. A professor who has written on the metaphorical nature of language and thought uses the word “progressive” to refer to environmentalists who are engaged in conserving species and
habitats. The list of examples of how words carry forward the misconceptions of previous generations and of other members of society could be extended endlessly.

If our culture was based on a single root metaphor (or mythopoetic narrative), which is the case with many indigenous cultures that have learned to live within the limits of their bioregions, we would not have so many root metaphors that are now a major source of the misconceptions that often become a taken-for-granted part of our thinking and everyday discourse. Unfortunately, as non-Western cultures adopt more of our technologies and consumer expectations, they are also coming under the influence of our taken-for-granted interpretative frameworks. The result is that many of these cultures are beginning to experience the conflict between the members of the culture who want to sustain their cultural and environmental commons and the Westernized thinkers that reject the intergenerational knowledge as an impediment to becoming modern and a consumer of trendy products. Again, it must be recognized that not all the intergenerational knowledge in these non-Western cultures, especially their various forms of racial and gender bias, should go unquestioned—and basically reformed.

The diversity of ways of thinking within our culture, as well as how the languaging processes that carry forward the misconceptions of the distant past, create a special challenge for commons-oriented educators. In order to communicate with these various groups who, in many instances do not recognize the misconceptions they have based their lives upon, it will be necessary to understand the nature and origins of their misconceptions. It is also necessary to find a language that leads them to engage in discussions as to why it is important to revitalize the cultural and environmental commons. This challenge is made more difficult by the fact that classroom teachers and university professors also need to address the misconceptions that were passed on during their own educational experience—and that continue to be reinforced by the media, by colleagues, and by the general public.

A misconception that now serves as a particularly powerful obstacle to understanding the nature and importance of revitalizing the cultural and environmental commons is in how the political labels of liberal and conservative are used. Public schools and universities, with few exceptions, do not require that students read the classical liberal theorists such as John Locke, Adam Smith, and John Stuart Mill, nor the
philosophical conservative thinkers such as Edmund Burke, Michael Oakeshott, T. S. Eliot, and, more recently, Wendell Berry. The result is that most of the American public are unable to recognize when the labels are associated with the wrong set of ideas. Equally important is that they have no understanding of why it is important to use the labels in an historically accurate manner.

A second fundamental reason that the labels are misused can be explained in terms of the earlier discussion of how language simplifies earlier analogies that may be based on still earlier misconceptions. These misconceptions are then reproduced by later generations. The continual misuse of language transforms it into formulaic thinking where the words become totally abstracted from the context they were originally supposed to clarify. The current misuse of conservatism and liberalism has now reached Orwellian dimensions, with conservatism now standing for a market-liberal and an imperialistic agenda, while liberalism is being slandered for having a political agenda that includes achieving greater social justice in communities and for conserving species and habitats. While the media personalities who promote the virtues of free-markets and the need to reduce the social justice role of government call themselves conservatives, other media personalities who identify themselves as liberals criticize the market-liberal agenda of economic globalization.

Few people break from this formulaic (mindless) way of misusing these two most important political terms by asking the self-identified conservatives what they want to conserve with their transformative technologies and unrelenting quest for profits. Even fewer seem able to recognize that the political agenda of self-identified liberals and progressives is to conserve our democratic institutions, the gains made in the area of social justice, and the viability of the Earth’s ecosystems so that the prospects of future generations are not diminished. Working to achieve even further gains in these areas can also be understood as strengthening the cultural and environmental commons—which is basically a matter of conserving the achievements of the past and ensuring the prospects of future generations. This fits both with the conservatism of Burke and the community/environmental conservatism of Wendell Berry.

An example of the formulaic thinking that now dominates our political discourse can be seen in the current labeling of such groups as the CATO and the American
Enterprise Institutes as conservative. Instead of repeating the misconceptions promoted through the media and by academics, I suggest that the reader engage in a revolutionary act: namely, check out how these two so-called conservative institutes describe themselves on their web sites. According to the website of the CATO Institute:

> Today, those who subscribe to the principle of the American Revolution—liberty, limited government, the free market, and the rule of law—call themselves by a variety of terms, including conservative, libertarian, classical liberal, and liberal. We see problems with all of those terms. ‘Conservative’ smacks of an unwillingness to change, of a desire to preserve the status quo. Only in America do people seem to refer to free-market capitalism—the most progressive, dynamic and ever changing system the world has ever known—as conservative…. The Jeffersonian philosophy that animates CATO’s work has increasingly come to be called ‘libertarianism’ or ‘market liberalism.

The self-description of the American Enterprise Institute also raises the question of why it is continually referred to a bastion of conservative thinking. According to its web site, “The American Enterprise Institute for Public Policy Research is dedicated to preserving and strengthening the foundations of freedom—limited government, private enterprise, vital cultural and political institutions, and a strong foreign policy and national defense”. Other examples of the misuse of the word conservative can be found in how individuals that label themselves as “neo-conservatives” promote the imperialistic agenda of the government, and write about the virtues of capitalism—which has as its primary purpose the further enclosing of the cultural and environmental commons. If one is concerned with using our political language in ways that foster accountability rather than obfuscation, then George Gilder’s *Wealth and Poverty* (1981), and Michael Novak’s *The Spirit of Democratic Capitalism* (1982), and the current writings of William Kristol (editor of the *Weekly Standard*) should only be described as proponents of free markets and of limiting the role of government in addressing social issues.

An even more extreme example of Orwellian language is to refer to President George W. Bush, along with his fundamentalist and evangelical political base, as conservatives. Ironically, as we witness the many ways in which environmental legislation has been rolled back, corporations given a larger role in formulating new
policies and modifying earlier legislation that placed restrictions on the abuses of corporations, tax benefits for the already wealthy while public services and support for America’s marginalized groups are cut back, no one seems to ask the most basic question of these so-called conservatives. The question of what they want to conserve is a simple one, and the answer, if people cared about accuracy and accountability in what our political labels should stand for, is that they want to strengthen the free market system. Many people today accept this as a legitimate answer to what they want to conserve, but what they overlook is that the free market places profits above all else. As the CATO Institute correctly states, the policies of the past and current Bush administration are in the market-liberal tradition that has its roots in the ideas of John Locke, Adam Smith, and, more recently, the ideas of libertarians and University of Chicago economists such as Milton Freidman. In short, what they want to conserve is an economic system that has no moral limits on what traditions, including our civil liberties, can be enclosed.

The same formulaic thinking leads to referring to many evangelical and fundamentalist Christians as “social conservatives.” Yet their political agenda, which they claim is derived from a literal, that is, a supposedly infallible interpretation of God’s word as found in the Old Testament (as well as their current communication with God), is to work for the overturning of the separation of church and state, to elect members of Congress and a president who will support their moral codes, and to overturn the tradition of an independent judiciary. Their claim to be God’s agents on earth until the Second Coming leads them to act with absolute certainty about their political goals—and an equally absolute sense of moral legitimacy that makes compromise, negotiation, and dialogue within a pluralistic democratic society the ultimate betrayal of their God-given responsibilities. When we include their efforts to overturn legislation that secures the freedom of choice of previously marginalized and unprotected social groups it becomes even more difficult to justify referring to them as conservatives. A more accurate label would be reactionary extremists, or as anti-democratic fundamentalists.

What is important to understand about the current misuse of our two most important political terms is that liberalism and conservatism became a formulaic way of branding different constellations of values and policies relating to the role of government before there was an awareness of environmental limits. That is, before there was an
awareness of the extent of the environmental crises, the word had become identified with the interests of corporations and the wealthy and privileged classes. As most journalists and media personalities, as well as the many academics that misuse the terms, do not have a knowledge of the history of political theory, the misconceptions have simply been passed along from generation to generation. Because of this lack of historical perspective on the two traditions of thinking, few people have understood that the cultural assumptions that are now taken-for-granted by today’s faux conservatives are also the assumptions that gave conceptual direction and moral legitimacy to the industrial, consumer-oriented culture that is now turning what remains of the world’s diverse cultural and environmental commons into market opportunities. To recall these assumptions: change is inherently progressive—which the industrial culture ensures through technological innovation and the continual quest for profitable markets; that the autonomous individual is the basic social unit—thus, in being free of the interdependencies of community life is increasingly dependent upon consumerism to meet the needs of daily life; that this is an anthropocentric world—meaning that the value of the environment is to be measured in monetary terms; that mechanism best characterizes both the systems of life and the systems of industrial production—which, in turn, leads to emphasizing efficiency, experimentation, and measurable outcomes; that economism is the basis for determining the value of all aspects of life; and that evolution, when used to explain cultural developments, provides a scientific explanation of why global capitalism is the better adapted economic system. What is difficult to understand is why this pattern of thinking, and the values and assumptions it is based upon, is identified as conservative-- particularly as it undermines the natural systems we depend upon as well as the intergenerational knowledge that provides alternatives to becoming increasingly dependent upon the industrial systems of production and consumption.

The fundamentalist and evangelical Christians can, in turn, find Biblical passages that explain how living a God-directed life leads to vast riches for some, and why others remain impoverished. Thus, conservatism, for them, means living by the word of God, and preparing for Armageddon which will be preceded by chaos and destruction—which will include the environment. Market-liberalism thus contributes to fulfilling two
promises that shape their vision of the end-of-time: that the separation of the rich and poor (the saved and the eternally damned) and the destruction of the environment are signs of God’s ultimate plan. For them, conservatism means supporting market liberal politicians that are working with corporations to advance their imperialistic economic agenda—as the spread of American dominance clears the way for converting the world’s population to Christianity. The opening of new markets means new opportunities to spread the Christian message of how to earn eternal salvation. Again, the question needs to be asked: How does the impact of this twin market-liberal and fundamentalist Christian agenda contribute to conserving the local knowledge of self-sufficiency necessary for living within the limits of the natural environment?

What is conservative about the current efforts of these faux conservatives to transform what remains of our democratic and pluralistic society into a monolithic and increasingly surveillance-based society? Obtaining a majority of justices on the Supreme Court who believe in the doctrine of “original intent” would open the door to declaring unconstitutional legislation relating to public health, workplace safety, environmental protection, and a host of other functions of government that were not anticipated by the men who wrote the Constitution. Referring to Supreme Court justices who want to impose the doctrine of original intent as conservatives hides that their real objective is to eliminate governmental regulations that restrict the free enterprise system. Hidden behind the Orwellian language that suggests that these justices will not be extremists is the extremist agenda of market-liberal ideologues who want to transform the world’s diverse cultures into a global market. Conserving the many forms of political consensus that have been reached over the last 200 or so years, and transformed into legislation, is what they want to overturn. Even as the market-liberal government, supported by Christian extremists who ignore that the core features of Jesus’ politics were pro-social justice and anti-imperialistic, undermines the traditions of habeas corpus, protecting the private lives of individuals from government surveillance, and limiting free speech and assembly, the shapers of public opinion continue to mis-educate the public—and ironically, themselves.

The double bind created by the mislabeling of the market-liberals and fundamentalist and evangelical Christians as conservatives is that the environmentalists,
the proponents of revitalizing the cultural commons, and the people working to reverse the social injustices rooted in the industrial system of production and consumption, identify themselves as liberals and progressives. George Lakoff, a linguist at the University of California and the founding senior fellow at the Rockridge Institute, refers to the environmentalists as progressive thinkers, and the CATO Institute as a conservative think tank. While Lakoff’s message is important—namely, that those who control the vocabulary control the outcome of political debates, he along with most other environmentalists and social justice advocates continue to identify one of the most progressive (that is, change oriented and technologically innovative) economic systems that world has ever known as conservative.

Educational reformers who are concerned with social justice issues and the threat posed by the current expansion of American imperialism base their recommendations for reform on the same god-words that Lakoff and other self-identified progressives support: individualism, progress, critical thinking, freedom, and emancipation from tradition. As they never identify which traditions should be renewed, one has to assume that they mean emancipation from all traditions. What their shared ethnocentrism leads them to overlook is that these god-words of progressive thinking are viewed in many non-Western cultures as undermining their cultural commons—and that promoting them is yet another expression of cultural imperialism. They also overlook that these god-words are also embraced by market-liberals, as the ideal of market-liberals is the individual who is free (that is, ignorant) of the traditions of the local cultural commons. In lacking the knowledge and skills that contribute to living a less consumer dependent life (that is, being emancipated from the traditions that are the basis of interdependent communities) the individual is then more easily manipulated into becoming the reliable consumer required by the industrial system.

There is another consequence of market-liberals identifying themselves as conservatives. That is, they can more easily demonize the word liberal, which in turn serves to demonize the efforts of social justice advocates, environmentalists, and people engaged in commons strengthening activities. This latter group contributes to the linguistic confusion by continuing to identify with an abstraction whose historical roots are in the thinking of John Locke and a partial reading of Adam Smith. The market
lifers gain from this linguistic confusion in another way. Many people, especially people who feel increasingly marginalized by an economic system that is adding to their insecurity and, at the same time, feel left behind by the rate of technological innovation, have a natural inclination to think of themselves as wanting to conserve what seems to be stable and secure in their lives. In effect, the rate of technological innovation and economic change is confronting them with an increasing number of unknowns. A natural response is to support the politicians and to believe the shapers of public opinion who identify themselves as conservatives. The failure of public schools and universities to introduce them to the core ideas and values that separate the traditions of liberal from conservative thinkers also contributes to the general public’s inability to recognize the mindless linguistic mess that makes them more dependent upon consumerism—even as their incomes become increasingly jeopardized by downsizing, outsourcing, and cutbacks in the government safety nets.

Given the misconceptions that are reproduced when the term liberal and conservative are used in the media by pundits, politicians, and preachers, the question becomes: How should classroom teachers and university professors deal with these widespread misconceptions? Should they perpetuate the misconceptions and thus help to keep intact the Orwellian tradition in American politics where words mean the opposite of what their meaning should be? That is, should educating students in ways that help to revitalize the cultural and environmental commons, as well as helping them to understand how to participate in the politics of limiting the different forms of enclosure, be identified as a liberal form of education? Would identifying commons education, or even the traditional approach to environmental education, with liberalism and progress weaken or gain support in the local communities?

That the term “liberalism” has taken on a number of negative images for many Americans is not the reason that educators working to revitalize the cultural and environmental commons should avoid labeling themselves as liberals. If commons education is to gain the support of the local community, educators will need to take seriously Wendell Berry’s advice about the use of language. In *Standing By Words* (1983) he identifies the three conditions that should guide the use of language. His general advice, which echoes Confucius’ wisdom about the need to rectify the use of
language in order to rectify our relationships, has particular relevance for how we use the political labels of liberal and conservative. To paraphrase Berry, the use of a political label should meet the following criteria:

1. It must designate its object precisely.
2. Its speakers must stand by it: must believe it, be accountable for it, and be willing to act upon it.
3. This relation of speaker (and writer), word, and object must be conventional; the community must know what it is. p. 25

When we use these criteria to assess which political label is the more accurate descriptor of educators working to renew the cultural and environmental commons, we find that the label that has its roots in the thinking of John Locke, Adam Smith and, more recently, the social Darwinism of Herbert Spencer, is fundamentally misleading. To recall an earlier observation: both market liberalism and social justice liberalism are based on culturally-specific assumptions about the autonomous individual, the progressive nature of change, an anthropocentric view of nature, and mechanism as a model for understanding organic processes—including the nature of the brain. As old formulaic ways of thinking are so difficult to change, I will restate what separates market liberalism from social justice liberalism. While the main goal of market liberals is to turn more of the world’s cultural and environmental commons into exploitable markets, the social justice liberals, while being critical of the inequalities that result from the profit-oriented industrial system of production and consumption, take for granted the same assumptions about the autonomous individual, the progressive nature of change, and so forth. They focus on issues of achieving greater equality among individuals—in the work place, in the consumer culture, in the political arena, and in education.

What is particularly noteworthy about their approach to education is their support of the ideas found in the writings of John Dewey, Paulo Freire, and the more recent constructivist learning theorists, which leave students without the language necessary for understanding the diversity of the world’s cultural and environmental commons. The ethnocentrism of these constructivist thinkers leads them to engage in the equally imperialistic agenda of imposing their one-true approach to knowledge on the world’s different cultures—scientific inquiry for the followers of Dewey, critical inquiry for Freire
and his current followers, and the romantic idea of the constructivist theorists that students should construct their own knowledge in order to be free of external control. A prime example is how liberal educational reformers now argue that “environmental citizenship (should be) a truly planetary one” as Moacir Gadotti put it. This leading Brazilian proponent of Freire’s ideas also argues for an extreme constructivist approach to learning. The educational alternative to what he refers to as “cultural transmission” is facilitating “the grand journey of each individual in his interior universe and in the universe that surrounds him.” (2002, p. 8). Before we agree with him that “cultural transmission” can be or should be replaced by students relying upon their “interior universe” as the source of knowledge, we need to remind ourselves, and Gadotti, that learning the language of the culture we are born into provides the interpretative frameworks that will be taken for granted. Gadotti’s own statement demonstrates this point. He has recently become aware of the ecological crises, but he continues to perpetuate the gender bias in his use of the masculine pronoun as well as the argument for continuing the imperialistic agenda of liberals by stating that “globalization in itself does not pose problems, since it constitutes an unprecedented process of advancement in the history of humankind” (p. 8).

Given the reality that different forms of liberal/progressive thinking have dominated both public schools and universities in America for decades, the vocabulary necessary for understanding how the cultural and environmental commons represent alternatives to the growing spread of poverty and environmental degradation has been marginalized to the point of silence. Or it has been so misrepresented that it carries the stigma of standing in the way of progress and individual freedom. Even the mislabeled conservative educational reformers, such as the promoters of the Great Books, should be viewed as opponents of the many forms of knowledge that are intergenerationally renewed within the cultural commons. They promoted print-based knowledge over oral traditions and mentoring, learning the ideas of the great thinkers of the West who contributed to the widespread bias against the cultural commons, and the ethnocentrism that has been one of the hallmarks of Western imperialism—which the faux conservatives have now taken on as their primary mission in conducting the “long war” against any individual or group that opposes their agenda.
The challenge for environmental educators, as well as the growing number of commons-oriented educators, who continue to identify themselves with liberalism is to begin the task of rectifying their use of our political vocabulary. And that would be to identify themselves as social and ecojustice activists. As they begin examining more closely how the knowledge and skills that sustain a less money-based lifestyle is intergenerationally renewed, the emphasis on mutual support in developing commons-related skills and talents, and the moral framework that emphasizes carrying forward the social and ecojustice achievements of the past, perhaps it will dawn on them that educating for the renewal of the commons fits Edmund Burke’s core conservative idea. Namely, that the present generation is part of a social contract which involves recognizing that they are participants in “a partnership between those who are living, those who are dead, and those who are to be born” (1962 edition, p. 140). There are other aspects of Burke’s ideas that we would now regard as the anti-democratic thinking of his times. However, his idea that we are intergenerationally connected and thus responsible, as well as his warning that local communities are best suited to judge whether innovations are a genuine form of progress, need to be taken seriously. Similarly, the conservative critiques of the industrial system of production, including the modern forms of technology, by Michael Oakeshott should also help clarify further that commons education fits more with the traditions of philosophical conservatism than with the market and even social justice liberalism. Oakeshott’s central criticism is that the rational approach to developing new technologies undermines the traditions of craft knowledge—along with the network of community support that sustains the craft. And if the names of Burke, Oakeshott, and T.S. Eliot are not familiar to environmental and commons educators, then they should familiarize themselves with the writings of Wendell Berry, Vandana Shiva, Gary Snyder, Helena Norberg Hodge, Gustavo Esteva, and G. Bonfil Batalla. These writers cannot be called liberals as they are focused on how the intergenerational support systems that address the issues related to poverty, the degradation of the environment by a market economy that has no self-limiting moral principles, and the connections between local decision-making and sustainable local economies. Their conservatism does not fit the social justice liberal’s stereotype of the
As both market and social justice liberals tend to equate innovations with progress, what the genuinely conservative thinkers have to say about innovation may clarify why commons-oriented educators should identify themselves as environmental and ecojustice conservatives. Burke, for example, observed that “a spirit of innovation is generally the result of a selfish temper, and confined views” . And elsewhere in his Reflections on the Revolution in France, he wrote that“ a state (or community) without the means of some change is without the means of its conservation.” In more contemporary terms, his statement brings out that commons-oriented educators need to help students recognize that the same critical reflection that leads to the innovation should be used to examine which traditions of community self-sufficiency the innovation will undermine. Another change in Burke’s wording is that it would be more accurate to say that innovation is largely driven by the desire for new markets and profits—though recent concerns about the level of environmental degradation is also leading to innovations that contribute to more sustainable commons. Wendell Berry is perhaps the best example of an environmental/commons- oriented conservative thinker who is aware that innovations need to build on the genuine achievements of the past, and that they must be assessed in terms of whether they contribute to a sustainable future. In the following quotation, taken from The Unsettling of America: Culture & Agriculture (1986 edition) he introduces the distinction between the “exploiter” and the “nurturer” that puts in contemporary terms Burke’s insight about intergenerational responsibilities.

The exploiter is a specialist, an expert; the nurturer is not. The standard of the exploiter is efficiency; the standard of the nurturer is care. The exploiter’s goal is money, profit; the nurturer’s goal is health—his land’s health, his own, his family’s, his community’s, his country’s. Whereas the exploiter asks of a piece of land only how much and how quickly it can be made to produce, the nurturer asks a question that is much more complex and difficult: What is its carrying capacity? (That is, How much can be taken from it without diminishing it? What can it produce dependably for an indefinite time?) The exploiter wishes to earn as
much as possible by as little work as possible; the nurturer expects, certainly, to have a decent living from his work, but his characteristic wish is to work as well as possible. The competence of the exploiter is in organization; that of the nurturer is in order—a human order that accommodates itself both to natural order and mystery. The exploiter typically serves an institution or organization; the nurturer serves land, household, community, place. The exploiter thinks in terms of numbers, quantities, ‘hard facts’; the nurturer in terms of character, condition, quality, kind. Pp. 10-11 (italics in the original)

Ironically, the misuse of our political language results in using the conservative label to describe the mind-set and activities of the “exploiter” while the nurturer is referred to in the media and in most of our political discourse as a liberal—a term that has its roots in the thinking of John Locke who first articulated why private property is more important than conserving the commons. In his best selling handbook for liberals, Don’t Think of an Elephant (2005) George Lakoff also reinforces the idea that the liberals are the nurturers, and that the conservatives are the exploiters. This is now a common-sense way of thinking for most people who identify themselves with liberalism, and who have not thought about how the deep cultural assumptions underlying both market and social justice liberalism are also shared by the industrial culture. That environmentalists are the true conservatives is too new of an idea for most people—even for thoughtful people such as the reporter for a national newspaper who reported that the conservatives in Congress were organizing to overturn the Endangered Species Act, and that liberal environmentalists would be resisting this effort. In effect, understanding the sources of resistance to commons education will require being aware of how critics continue to be unconsciously influenced by the language that encodes the misconceptions of the past—even the recent past when few people had a conceptual understanding that non-monetized activities and relationships in their communities were examples of the cultural commons that had a smaller environmental impact.

**Identifying Strategies that Will Gain Community Support**

As a commons-oriented curriculum involves both identifying the mutual support traditions of social groups that enable them to be less dependent upon consumerism, as well as developing a critical understanding of the different forms of enclosure, there is a
potential for controversy. “Progressive-minded” colleagues and individuals in the community are likely to object to any reference to “conserving traditions”—even though their daily lives depend upon them. And the members of the business community and other market liberal groups are likely to charge that any critical examination of the various forms of enclosure of the cultural and environmental commons in the classroom is un-American—and thus a source of comfort for our enemies. There is also the potential for controversy if teachers introduce students to the way in which language carries forward the misconceptions of the past—misconceptions that often continue to be the parent’s as well as the public’s taken-for-granted way of thinking. Introducing students to the scientific evidence of the degraded state of natural systems such as the world’s fisheries, sources of potable water, topsoil, forest cover, the impact of global warming on the world’s ice fields, and so forth, may also be criticized by many parents who have based their lives on the assumption of that they are entitled to a lifestyle of hyper-consumption. And if the word evolution is mentioned in classroom discussions, it is likely to elevate the level of controversy within the community.

Just as the questioning of the gender biases that were widespread in the dominant culture led initially to controversy (which continues among certain segments of society), the even more complex cultural changes that will be required for living a post-industrial existence will generate even more resistance—especially since the current dominance of the industrial, consumer-dependent culture is what is being challenged. Misrepresenting the nature and purpose of a commons-centered approach to education will simply lead to even more controversy. For example, if the various forms of enclosure are examined critically in ways that make it appear to the public as the promotion of a liberal agenda in the classroom, the widely held view of liberalism as a demonic form of thinking will create totally unwarranted controversy—especially by market liberal students who are now being funded by market liberal institutes (both of which misidentify themselves as conservatives) to collect evidence for charging public schools and universities with indoctrinating students. This re-emergence of McCarthy-era tactics, we need to remind ourselves, is yet another example of the Orwellian linguistic deception where the promoters of turning what remains of the commons into market opportunities, as well as global imperialism, identify themselves as conservatives. Given the degraded state of the
democratic process that seems to be accelerating across the country, it is even more important that classroom teachers and university professors follow Wendell Berry’s advice to use political labels in ways that “designate (their) object precisely.”

That is, a commons-oriented curriculum needs to be described as conserving the intergenerational knowledge, skills, and relationships that strengthen mutual support within the community. Simply referring to this curriculum as conservative will be misunderstood as most people have been conditioned to associate the word with how Congress, the courts, and the president now promote the interests of corporations over the need to fund education, housing for the poor, and other needs at the community level. Given the way our use of political language has been corrupted, it is absolutely necessary that when using the words conserving or conservative it should be connected to examples of non-monetized relationships and activities. It is important to make the point that these two words have special significance in an era when the sustaining capacity of natural systems are in decline and when democratic institutions are being purposely eroded by a powerful alliance of market liberal politicians, lobbyists for corporations, and religious extremists. These groups interpret the industrial mantra of “progress” to mean eliminating the different voices that make a democracy so vital, as well as eliminating the constraints that earlier political consensus of a diverse public have placed on the ability of corporations to exploit their workers, the environment, and the consumer. In this changing climate, education needs to pass on the background knowledge of the traditions that are essential to conserving our democratic institutions, such as an independent judiciary, the separation of powers between the three branches of government, and the Constitutions—including habeas corpus and the other gains made in the area of social justice.

The use of these two words should be seen as an opportunity to re-educate people who have been poorly served by the media and by their classroom teachers and professors. This process of re-education should also include recognizing the need to conserve habitats, species, and the world’s linguistic diversity. After nearly 40 years of warnings about overshooting the sustaining capacity of natural systems an increasing number of people are becoming aware that changes in the environment now represent a threat to their way of life. While most of these people continue their consumer-
dependent lifestyles pretty much unchanged, they may be nearing the point where they begin to realize that conserving in the face of an uncertain future should be taken seriously. However, no re-education will take place when the words conserving and conservative are left up to the interpretation of the parent, colleague, or member of the community.

As only a small number of students take courses in environmental education, and as most of the teachers and professors in other subject areas continue to ignore the life-changing nature of the deepening ecological crises, many citizens view environmentalists as alarmists and as seekers of national attention. It is unlikely that the members of the community who drive the oversize pickups and SUVs, and are aggressively supportive of sending American soldiers to fight and die in wars that have as their primary purpose protecting the nation’s access to the sources of energy that we use so wastefully, can be convinced that our future depends upon revitalizing the cultural and environmental commons. However, other members of the community who previously viewed environmentalists as engaged in activities unrelated to their own lives may become sources of support when they learn about the nature of commons education, and how it strengthens local democracy and the non-monetized relationships and activities within the community. Even owners of small businesses that are coming under pressure from the mega stores such as Wal-Mart, Target, and Home Depot may realize that an educational emphasis on strengthening the self-sufficiency of the local community should be supported.

Perhaps the most effective approach to gaining support within the community is to invite artists, local farmers, crafts people, men and women in the trades, people who volunteer in a variety of ways, and members of local churches who have a more social justice agenda, to participate in various phases of the curriculum. Their participation will help students recognize the resources of the community as an alternative form of wealth that is not threatened by automation and other uncertainties connected with an increasingly globalized economy. The participation of members of the community, in speaking from their experiences, will further help to ground the discussion of the various forms of enclosure. The discussion of the complex relationships and interdependencies that are expressions of the cultural commons, as well as the way different forms of
enclosure are hidden, may contribute to a greater appreciation of what the students are learning. In too many instances, part of the enclosure of the cultural commons is achieved by demeaning the possibility that older adults have anything meaningful to contribute to youth who have been so thoroughly indoctrinated into believing the new is better than what existed in the past. Adults who observe students taking seriously how their non-monetized and more community-centered activities represent alternatives to the competitive, often depersonalized existence reinforced by the industrial/consumer-dependent culture, would welcome the change. The focus on the intergenerational skills and knowledge of the local community, and the involvement of community members in different phases of the cultural commons curriculum, will help to initiate a community-wide discussion of the connections between conserving and even revitalizing the cultural commons and living a more ecologically sustainable lifestyle.

While the discussion here has been mostly about what should be included in the cultural and environmental commons curriculum—particularly at the public school level, it should also be kept in mind that Burke’s view of conservatism, and I think that of Berry and Shiva, includes taking responsibility for ensuring that the genuine cultural achievements of earlier generations are not lost because of the misconception that progress can only be attained by ignoring or criticizing all traditions. If taught from a non-ethnocentric perspective, traditional academic disciplines such as art history, literature, various sciences, economics (particularly history of economics), history, anthropology, philosophy, religious studies, political theory, and so forth, have an important contribution to make in providing depth and perspective to commons education. In addition to providing an understanding of the genuine artistic, technological, political, and scientific achievements of our own distant path, if these areas of inquiry were to include a comparative cultural perspective students would have a better grasp of the genuine achievements of other cultures—particularly their ways of living within the limits of the environments they depend upon. Anthropology, if focused on how some cultures destroyed their local habitat and disappeared, would also be highly important in helping students examine their own cultural traditions. A knowledge of how other cultures disappeared or survived only in an impoverished condition may challenge the students’ hubris and sense of being exceptions to the iron law of nature that dictates
that cultures will not survive the destruction of the environment they depend upon. This sense of exceptionalism, which is passed on by many parents and by most democratic if not all republican politicians, represents one of the most questionable legacies of an unexceptional people.

The intergenerational knowledge that has been mentioned so frequently as being at the core of the cultural commons includes an historical understanding of how the arts developed in the past—as well as how they can enrich aesthetically the life of the community, and contribute to the development of individual talents and interests. Learning to play both classical and folk music, to perform the best of live theatre and to collaborate in the writing and production of new plays, will avoid an over-emphasis on the local—which may become very rigid and parochial. Similarly, a knowledge of the history of economic and political theory is essential for understanding the ideological forces that now make the further monetization of the cultural and environmental commons appear as driven by historical forces that cannot be altered by the political process. Just as traditional courses in philosophy, history, religious studies, and so forth, need to be re-oriented so the focus is less on the progressive nature of Western culture and more on how the traditions of the past contributed to marginalizing how people think about the commons, courses in economics and political theory also need to focus on how the West’s industrial culture became such a commons destroying force. Courses in history, in addition to introducing students to the history of environmental thinking, should also help students understand the ideas, events, and technologies that contributed to the enclosure of commons of different cultures. The role that religion has played in how the natural environment and social justice issues were understood at different times in the West is vital to understanding the danger today of large numbers of Christians giving their support to the current American agenda of economic imperialism.

The list of reasons could be easily expanded as to why it is important for students to have an historical knowledge of the development of mainstream American culture, as well as the knowledge of the role that other cultural groups have played both in sustaining their own traditions as well as influencing the woof and warp of daily life in communities across America. This historical knowledge of conflicts, exploitations, misunderstandings, cooperation, social justice achievements, continuing threats to our
civil liberties, becoming long-term dwellers, technological achievements and expressions of hubris, and so forth, are also essential if the participants in the community’s commons are to avoid letting subjective judgments become the driving force in local decision-making. This background knowledge is absolutely necessary if the participants in sustaining the local commons are to take seriously the ecojustice criteria that were identified earlier.

Chapter 6 Toward a Culturally-Grounded Understanding of Teaching and Learning

The inability of many environmental educators to recognize the contradictions in identifying themselves as liberal and progressive thinkers as they work to conserve species and habitats extends to their embrace of constructivist theories of learning, This widely shared contradiction can be traced to several sources. The emphasis on experimental inquiry, which is the core feature of science, engages the student as constructing knowledge that is based upon empirical evidence. There is, however, more to scientific inquiry than most scientists recognize—or are willing to acknowledge. Given this lack of awareness, their students (the future environmental educators) in turn reproduce the silences of their professors in their own thinking about how knowledge is acquired and tested.

The history of scientific successes in overturning long held misconceptions about natural phenomena has contributed to the well deserved confidence in the knowledge gained through experimental inquiry. This history of achievement, including the increasingly dominant role it has been accorded by academics in other fields—as well as by the general public, has also contributed to the hubris that has limited the ability of many scientists to examine the limits of scientific inquiry. The late Carl Sagan expresses this hubris when he writes in The Demon Haunted World: Science as a Candle in the Darkness (1997):

The scientific way of thinking is at once imaginative and disciplined. This is central to its success. Science invites us to let the facts in, even when they don’t conform to our preconceptions. It counsels us to carry alternative hypotheses in our heads and see which best fits the facts. It urges on us a delicate balance
between no-holds-barred openness to new ideas, however, heretical, and the most rigorous skeptical scrutiny of everything—new ideas and the established wisdom. This kind of thinking is also essential too for a democracy in an age of change.

One of the reasons for its success is that science has built-in, error-correcting machinery at its very heart. Some may consider this an overbroad generalization, but to me every time we exercise self-criticism, every time we test our ideas against the outside world, we are doing science. When we are self-indulgent and uncritical, when we confuse hopes and facts, we slide into pseudoscience and superstition. P. 30

The title of Sagan’s book suggests what Wendell Berry has referred to as the imperialist intent of modern scientists who see no limits on what they can explain.

Sagan is not alone in representing science as the one-true source of knowledge that the entire world should adopt. E.O. Wilson, perhaps America’s most eminent environmental spokesperson, argues in *Consilience: The Unity of Knowledge* (1998) that all of the world’s religions must now be replaced with the master narrative given us by modern science—the theory of evolution. He further makes the case for the imperialism of scientific knowledge by stating that “science for its part will test relentlessly every assumption about the human condition and in time uncover the bedrock of moral and religious sentiments”. (p.265) In a chapter titled “Dr. Crick’s Sunday Morning Service,” the Nobel Laureate holds out the promise that in the future science will enable us to “understand more precisely the mechanisms of such mental activities as intuition, creativity, and aesthetic pleasure, and in so doing grasp them more clearly…” (1994, p. 261) It is important to note that both Wilson and Crick refer to the brain as a machine. Other scientists that exhibit this same hubris can easily be cited, such as Lee Silver’s recommendation that scientists should genetically engineer a “Gene Rich” human that will be able to manage the symbolic systems within the culture.

The hubris of many Western scientists is not simply a matter of verbal self-congratulations and false promises that should have been as frightening to the scientific community as they should be to the general public. It was not just in Germany that scientists worked to create a racially superior society. In the United States, Canada, Denmark, Sweden, Great Britain, and France, scientists promoted the new science of “eugenics” which led to the forced sterilization of people deemed to be morally and
mentally deficient. This practice was not stopped until the 1970s. Other examples of scientific hubris include the intelligence testing that privileged the speakers of English over other cultural groups. Today, this hubris is evident in the efforts to genetically engineer monster-size salmon that will soon be released into the ocean, as well as the Bt corn. When the latter sheds its pollen, it is then carried by the wind across fields where a number of unanticipated and uncontrolled changes are set in motion—including exploding the stomach of butterfly larva. These examples, as diverse as they are, share a common connection: namely, they all represent the role that Western scientists continue to play in the expansion of the West’s industrial system. When the entire record of Western science is taken into account, its genuine achievements need to be put into perspective by also considering the cultural bias of most scientists as well as their role in contributing to the expansion of the environmentally destructive practices that have changed the chemistry of the Earth’s natural systems. It needs to be remembered that the scientists’ concern about the growing ecological crisis goes back only fifty or so years, and this new found scientific focus only came about after the scientifically and ideologically based industrial culture had already degraded many natural systems beyond the point of recovery—at least in our life time. In light of the Janus nature of scientific achievements, Sagan’s idea that science is self-correcting before it becomes a destructive force needs to be reconsidered. It is also necessary to recognize that most scientists take-for-granted many of the same cultural assumptions that the industrial culture is based upon.

This point brings us back to the problem identified at the beginning of this chapter, which is the failure of scientists, as well as environmental educators, to recognize that the ideas, values, and modes of inquiry cannot be totally separated from the influence of the culture into which they were born. When this is recognized it becomes possible to see how the culture’s taken-for-granted assumptions influence the thinking of scientists—such as the current tendency of many scientists to use machine metaphors in referring to the brain, to seek new discoveries in the name of progress (which they interpret as linear in nature), to assume that scientists can escape entirely their culture’s interpretative frameworks in order to make “objective” observations, and
to engage in the incessant drive to re-engineer natural systems in order for them to be integrated into the industrial system of production and consumption.

There is another troubling aspect of modern science that is partly the result of the hubris of scientists and partly the result of the public’s inability to discriminate between science and scientism. This is the way in which the growing dominance of science has contributed to undermining the other cultural ways of recognizing what is sacred in the environment. Even though Sagan and Crick would consider any discussion of the sacred as throw-back to earlier superstitions, to an era of darkness, what many cultures regard as sacred spaces carries the moral/spiritual imperative that they are not to be exploited. Part of Crick’s argument is that there is no empirical evidence of the sacred; while E.O. Wilson, in claiming that religions are simply adaptive behaviors, wants to turn the theory of evolution into the world’s sacred narrative. While the current language of the proponents of extending the theory of evolution into the area of cultural values, ideas, and practices now includes such phrases as “Darwinian fitness,” and “better adapted,” the bottom line is best described by the late nineteenth century hallmark phrase of Social Darwinism, which was the “survival of the fittest.”

The science classes that are part of the professional requirements of environmental educators are also the source of another silence that supports the constructivist view of how students learn. This silence perpetuates the widely held view that Sagan summed up with the two words: pseudoscience and superstition. Thinking that other cultures, as well as some belief systems in our own culture, are backward and thus undeserving of being taken seriously is yet another example of the ethnocentrism that most scientists share with academics in other fields. Unfortunately, this is not just another harmless misconception shared by the supposedly best educated in our society. This ethnocentrism has led to the genocide of indigenous cultures, to efforts to colonize other cultures to our way of thinking and to our dependency upon a money economy—even when they have little opportunity to earn a living wage, and to transform their subsistence lifestyle into one of impoverishment.

Ethnocentrism must also be understood as contributing to the enclosure of the language and knowledge systems that are the basis of the cultural commons of other cultures. Ignorance on the part of our students, which is part of the legacy of the bias
exhibited in Sagan’s statement about non-scientific ways of knowing, has combined with the message that non-Western cultures are inferior. This has helped shape the consciousness of the youth of many non-Western cultures who now seek the trappings of the West’s consumer lifestyle. In rejecting their own cultural traditions in order to identify with the values of the West, they are also abandoning their responsibility to renew the cultural and environmental commons that they will be increasingly dependent upon as the industrial culture of the West exceeds the self-renewing capacity of natural systems (with important ones already in decline).

Because the scientific method is so central to how environmental educators think about the acquisition of knowledge, many of them are pre-disposed to accept without question the constructivist theories of learning that are often a distillation of the ideas of John Dewey, Paulo Freire, and Jean Piaget. One of the ironies is that these learning theorists, with the exception of Piaget, made critical inquiry central to acquiring knowledge that was supposedly free of the influence of traditions. Yet they did not think critically about the cultural assumptions that their respective one-true approach to knowledge was based upon. This lack of critical reflection about their own assumptions, combined with the way most professors of education represent the ideas of Dewey and Freire as examples of cutting-edge, progressive thinking, has resulted in most environmental educators being unable to recognize the limitations of constructivist theories of learning. Recognizing the limitations of Dewey’s theory of learning is made even more difficult for environmental educators because of Dewey’s reliance on the same scientific method of inquiry they learned in their science classes.

As I have written extensive critiques of the constructivist learning theorists such as John Dewey, Paulo Freire, Moacir Gadotti, and their many followers, I shall only summarize here the chief shortcomings of their theories that have particular relevance to environmental and other educators who are introducing students to the nature of the cultural and environmental commons—and the many forms of enclosure. The most extensive critiques of these theorists can be found in Rethinking Freire: Globalization and the Environmental Crisis (2005) and The False Promises of Constructivist Theories of Learning: A Global and Ecological Critique (2005).
The cultural and environmental commons, as was previously pointed out, are as diverse as the world’s cultures and bioregions. In addition, the mutual support systems and intergenerational knowledge vary in accordance with the culture’s long-term experience of place—including the cycles of renewal of the natural systems they depend upon. Instead of recognizing the world’s diversity of knowledge systems, Dewey and his followers have argued that there is only one legitimate approach to knowledge: experimental inquiry. Dewey had traveled widely—Japan, China, Russia, and Turkey. Yet he was unwavering in his insistence that experimental inquiry, and the cultural assumptions it was based upon (and which he did not recognize), must be adopted by all cultures.

The best example of his cultural imperialism can be found by reading Reconstruction in Philosophy, which was based on the lectures he presented at the Imperial University in Japan in 1919. Dewey had been invited by Japanese students who had studied with him in America; but his audience was representative, to use Dewey’s pet phrase, of an “unreconstructed” traditional Japanese culture. This culture was not oriented toward continual change and a reliance upon experimental inquiry for determining the usefulness of ideas and values. “Change,” he told his Japanese audience, “is associated with progress rather than with lapse and fall.” He also warned his audience that a spectator approach to knowledge could only be avoided by adopting the experimental method of inquiry, which would enable them to continually reconstruct experience. On the nature of moral values, Dewey stated that “growth is the only moral end.” Nowhere in his writings do we find him acknowledging that there are other cultural ways of knowing that enable the people to live in sustainable relationships with their environment. These cultures were either denigrated by Dewey as being primitive, based on memory that becomes an obstacle to the scientifically based reconstruction of experience, or engaged in the intellectually dead-end of a spectator approach to knowledge.
There is another characteristic of Dewey’s theory of learning that goes unnoticed by most professors of education who future environmental educators will learn their Dewey from. That is, Dewey adopted the Social Darwinism of his day to explain the differences in cultures. Instead of recognizing that cultures develop in different ways, he relied upon the widespread misreading of evolution that represented cultures as evolving in a straight line from primitive to the more evolved culture that Dewey assumed he represented. This interpretative framework is especially important to understanding the source of Dewey’s ethnocentrism and his hubris. In the book that most environmental educators will read (or at least parts of Democracy and Education), he explains the nature of intelligence shared by the least evolved people, which he refers to as “savages.”

In other words, knowledge is a perception of those connections of an object which determine its applicability in a given situation. To take an extreme example; savages react to a flaming comet as they are accustomed to react to other events that threaten the security of their life. Since they try to frighten wild animals or their enemies by shrieks, beating of gongs, brandishing of weapons, etc., they use the same methods to scare away the comet—so absurd that we fail to note that savages are simply falling back upon a habit in a way that exhibits its limitations. P. 396

Dewey’s evolutionary framework, which corresponds to the re-emergence of Darwin’s theory of natural selection that is now being used to explain which cultural memes are better adapted, can become a source of confusion for environmental educators who are helping students to understand why the most scientific and technologically “evolved” culture may be the better adapted culture. The question that too few students will ask is why the culture that is overshooting the sustaining capacity of natural systems is being identified as the better adapted—and why cultures that have survived for hundreds of years without destroying the natural systems they depend upon are being identified as less well adapted.

Dewey’s understanding of the nature of tradition also reinforces the way in which tradition is understood by scientists who view it as a constraint and thus something that must be surpassed through new discoveries and technological inventions. The problem is that this Enlightenment view of tradition becomes an obstacle to understanding the nature of the cultural commons—which is dependent upon the renewal of intergenerational
knowledge. Dewey recognized the importance of traditions to the process of experimental problem solving, but only if they have instrumental value in adding to an understanding of the problematic situations that needed to be reconstructed. His most positive way of representing traditions was to view them as habits. In Democracy and Education, he explained the significance of a habit by saying that “it means formation of intellectual and emotional disposition as well as an increase in ease, economy, and efficiency of action.” (p. 57) While admitting that a habit (or disposition) may contribute to continued growth, his criticism of traditions generally is more direct and categorical. The following distinction that he makes between traditions and the method of intelligence is what students sitting in a philosophy of education class are likely to remember:

Habits reduce themselves to routine ways of acting, or degenerate into ways of action to which we are enslaved just in the degree in which intelligence is disconnected from them. Routine habits are unthinking habits; ‘bad’ habits are habits so severed from reason that they are opposed to the conclusions of conscious deliberation and decision. As we have seen, the acquiring of habits is due to an original plasticity of our natures: to our ability to vary responses till we find an appropriate and efficient way of acting. Routine habits, and habits that possess us instead of us possessing them, are habits which put an end to plasticity. P. 58

In The Quest for Certainty (1929), Dewey went even further in representing habits (traditions) as fundamentally at odds with the method of intelligence that is associated with the need for growth and efficiency in reconstructing experience. There he writes that “knowledge which is merely a reduplication in ideas of what exists already in the world may afford us the satisfaction of a photograph, but that is all.” (p. 137) Conserving habits (traditions) connected with our civil liberties, the habits (traditions) of craft knowledge and skill, as well as the habits of mutual support within the community, are to be discarded according to Dewey’s vision of a society continually undergoing the process of social reconstruction.

Dewey placed great emphasis on the importance of participatory decision making in coming to an understanding both of the nature of the problematic situation as well as the plan of action for reconstructing it. What he did not understand, and what his followers have largely ignored because of the deep cultural assumptions they share with
him, is that many aspects of the cultural commons that enabled people to be less
dependent upon a money economy had been refined over many generations, and that its
taken-for-granted status is a source of empowerment. And within some cultures many
aspects of this intergenerational knowledge carried forward deep prejudices and sources
of exploitation. Dewey’s blanket rejection of all habits (traditions) that are not part of the
immediate problem solving process is the same error that has largely been overlooked in
the thinking of other constructivist learning theorists such as Paulo Freire and his many
followers: namely, in not being able to identify which traditions need to be conserved
and which traditions need to be reformed or rejected entirely.

There is another aspect of Dewey’s thinking that reinforces a powerful cultural
message learned in many of the environmental educators’ science classes. The message
is that science has enabled the industrial culture to expand through the development of
new technologies that have their roots in scientific discoveries. As many scientists still
adopt the view that they are not responsible for how society uses their discoveries, few
environmental educators will hear their science professors discuss how science
contributes to the hyper-consumerism that is having such an adverse impact on the
environment. Nor are they likely to hear them discuss when science becomes scientism,
or how the general public’s lack of education about the limits of scientific knowledge has
contributed to undermining the religious traditions that cautioned against the dangers of
excessive materialism marginalizing the need to address unresolved social injustices.

Dewey’s emphasis on the experimental method is also shared by scientists and
technocrats engaged in the continual search for new and more profitable technologies.
Indeed, the mantra of both Dewey and the industrial culture that is so dependent upon
scientific discoveries is “progress.” In Liberalism and Social Action (1935), Dewey
claimed that the failure of liberalism was in reinforcing the idea that intelligence is an
attribute of the individual—and not social. His criticism of capitalism, and the industrial
system it created was similar. He urged that the integrated network of science, capitalism,
and modes of industrial production should be brought under the control of a social
intelligence that grows out of participatory democracy. But Dewey’s insistence that the
experimental mode of inquiry was the only legitimate approach to knowledge meant that
his understanding of democracy would require the exclusion of other approaches to
knowledge. On the symbiotic relation between science and growth of industry, Dewey was very clear and emphatic. Writing in *Reconstruction in Philosophy*, he explained the interdependency in the following way:

It is equally true that the needs of modern industry have been tremendous stimuli to scientific investigation. The demands of progressive production and transportation have set new problems in inquiry: the processes used in industry have suggested new experimental appliances and operations in science; the wealth rolled up in business has to some extent been diverted to endowment of research. The uninterrupted and pervasive interaction of scientific discovery and industrial application has fructified both science and industry, and has brought home to the contemporary mind the fact that the gist of scientific knowledge is control of natural energies. These four facts, natural science, experimentation, control and progress have been inextricably bound up together. P. 42

The current attempt by environmental philosophers and educators to claim that Dewey was an unrecognized environmental thinker fails to take account of his efforts to promote the mode of inquiry that was essential to the development and expansion of the industrial culture; and the only way it could expand was by enclosing the cultural and environmental commons.

Even though the cultural and environmental commons were more robust in his day than now, it would be unfair to criticize him for not understanding the importance of the cultural commons, and the many forms of knowledge they depended upon. But the environmental commons were being rapidly exploited by industrialists and others interested in economic gain. As I point out in *The False Promises of Constructivist Theories of Learning*, Dewey ignored the destruction of the native forests and the vast herds of bison, just as he did not find problematic the genocidal policies of the American government toward the indigenous cultures spread across the land. These are serious limitations that put in perspective his more constructive contributions, such as his arguments that intelligence is enhanced as the entire community is involved in the decision-making process. But even this insight is compromised by his insistence on the efficacy of the experimental methods for solving all problems, and by his reductionist way of representing the nature of traditions. If he had bothered to undertake a micro-ethnography of the traditions that he re-enacted in daily life, as well as the everyday
traditions of the people of diverse cultural backgrounds that he passed on the streets of New York City and Chicago, his legacy might not be the obstacle to commons education that it now is.

Before explaining why environmental and other educators should also resist Paulo Freire’s vision of an emancipatory approach to education, which is based on an even more extreme constructivist theory of learning than Dewey’s, it would be useful to summarize the aspects of Dewey’s theory of learning that undermine both the cultural and environmental commons.

1. The diversity of the world’s cultural and environmental commons would be undermined if Dewey’s one-true approach to knowledge were to be universalized. Dewey, it needs to be remembered was an ethnocentric thinker. His emphasis on the empowering nature of experimental inquiry did not take account of how many of the environmental and social justice problems we now face are based on taken-for-granted assumptions—and that would not be recognized as problematic and thus in need of reconstruction.

2. Dewey’s view that traditions only have instrumental value within the context of current problem solving situations strengthens the already widespread prejudice against understanding the complex nature of traditions—and thus the need to recognize the traditions that have a smaller ecological impact and that contribute to the mutual support and self-sufficiency within the community.

3. Dewey failed to learn about the actual differences in cultural ways of knowing, but relied instead upon a cultural evolutionary framework for identifying the different stages of development from that of savages to communities that rely upon the experimental method of problem solving.

4. Dewey failed to recognize the impact of the industrial culture on the environment, and that he shared many of the same deep cultural assumptions with the industrial culture that he praised as furthering scientific inquiry.
Paulo Freire

There is a similarity between the argument of Sagan and Wilson about the emancipatory power of science and Freire’s emphasis on critical reflection as the source of empowerment in the life-long project of emancipation. Like Sagan and Wilson, Freire and his many followers are also ethnocentric thinkers, which makes their emancipatory approach to education both messianic and imperialistic—and always justified in the name of freedom, individualism, progress, and democracy. Another similarity between the scientists, Dewey and today’s constructivist-oriented educators, as well as Freire is that they have little knowledge of their own culture—particularly the cultural assumptions they share with the industrial/consumer oriented cultures that are overshooting the sustaining capacity of the natural environment. And like the scientists who still embrace the Enlightenment assumption about the inherently progressive nature of rational thought, Freire also viewed emancipation as an unlimited project that leads to progress. While Dewey made growth its own end, Freire made emancipation its own end—with each generation faced with the challenge of emancipating itself from what the previous generation had achieved.

Freire’s view of emancipation that supposedly leads to unlimited progress and freedom is based on the assumption that there is nothing in the culture that is worth conserving—other than the process of critical reflection. Many scientists are now concerned about the deepening ecological crises, and have now become spokespersons for conserving species and habitats. Most have not yet made the connection between conserving the non-monetized traditions of local communities (the cultural commons) and conserving the self-renewing capacity of natural systems. Understanding the symbolic nature of culture, for most scientists, is still their Achilles’ heel, and this weakness is reproduced in the science classes that are taken by environmental educators. This silence, in turn, contributes to the environmental educator’s willingness to accept Freire’s silence on the nature of culture as something more complex than what students need to be emancipated from. This silence, when reproduced in an environmental education class or in other classes, contributes to enclosing the language needed for exercising communicative competence in resisting the further spread of market forces.
Freire shares many of the same misconceptions and prejudices that are central to Dewey’s way of thinking. Like Dewey, he relied upon the social Darwinian interpretive framework of the last century for explaining different stages in cultural development. The Social Darwinian assumption that cultural evolution occurs through linear stages of cultural development, from primitive to the most evolved stage where critical reflection is exercised, is taken-for-granted by Freire. It leads him to identify the indigenous cultures living in the interior of Brazil as stuck in a primitive, animal-like stage of development. Although they existed for hundreds, even thousands of years by adapting their cultural commons to fit the sustaining capacity of the local environmental commons, Freire refers to them as living lives where “their interests center almost entirely around survival.” He referred to this stage of evolution as involving a “semi-intransitivity of consciousness.” The next stage of cultural evolution involves, according to Freire, a “transitivity of consciousness.” The final stage of cultural evolution, which he identified himself with, is characterized by what he termed “critically transitive consciousness.” (1973, pp. 17-19) This most advanced stage of cultural evolution is characterized by the exercise of critical reflection, democracy, and dialogue—with the latter two notably missing in how his followers respond to criticism. With regard to the many references in the writings of both Dewey and Freire about the importance of democracy, neither was able to recognize that a democracy may involve ideas and value based on entirely different cultural assumptions. Moreover, neither Dewey nor Freire were able to give an account of how to protect the rights of people who dissented from the majority point of view. With the Constitutional protections of dissenters becoming rapidly eroded by market-liberal and Christian fundamentalists, this area of silence in the thinking of Dewey and Freire becomes increasingly important—especially when constructivist-oriented classroom teachers reproduce this same silence in their classes.

In perhaps his most famous book, Pedagogy of the Oppressed (translated from Portuguese in 1968), Freire explains how the process of emancipation from the world of the previous generation is to be achieved—and why this process is essential for achieving the fullest realization of the individual’s humanity. This statement is so extreme in its implications that it should not be paraphrased. As stated by Freire,
Human existence cannot be silent, nor can it be nourished by false words, but only by true words, with which men transform the world. To exist, humanly, is to name the world, to change it. Once named, the world in its turn reappears to the namers as a problem and requires of them a new naming. Men are not built in silence, but in word, in work, in action-reflection. 1974 edition, p. 76 (italics in original)

In his last book before his death, Freire states that the culture of the student needs to be recognized, but he followed this by claiming that the essential task of the teacher is to contribute to the freedom and autonomy of the student. In effect, he continued to support the statement he made in Pedagogy of the Oppressed, and referred to the culture of the student because he had learned that it was the politically correct thing to do. If he had really understood the differences in cultural ways of knowing, he would have recognized that his idea of individual freedom and autonomy might not be universally shared.

The other irony about Freire’s radical constructivist approach to learning is that it is also based on many of the same cultural assumptions that underlie the industrial, consumer-oriented culture that is the source of exploitation and environmental destruction. As pointed out earlier, the illusion of being an autonomous, critically reflective individual, which his pedagogy fosters, is exactly the form of individualism that is dependent upon consumerism to meet daily needs. Equally important is that by rejecting all forms of intergenerational knowledge and skills, his pedagogy assumes that individuals, on their own, will be able to ask the important questions about what is taken-for-granted by the majority of members of the language community of which they are a part. That Freire himself was unable to recognize the gender bias in his own writings until late in his career indicates that even the most extreme advocates of critical reflection continue to reproduce many of the taken-for-granted assumptions of their culture. For Freire, the list of taken-for-granted assumptions included the idea of the autonomous individual, that change in inherently progressive, that this is a human-centered world (Freire only became aware of environmental issues just before he died), and that critical reflection represents the most evolved form of consciousness.

Just as Dewey’s method of intelligence is essential in certain contexts, critical reflection is necessary for identifying unresolved social and ecojustice problems. But
neither Dewey nor Freire recognized the cultural imperialism that was an implicit aspect of their arguments that these two modes of inquiry were to be universalized. Freire’s problem was partly due to his assumption that there is only one approach to acquiring knowledge. The other approach, which Freire and his followers referred to as “cultural transmission” and “the banking approach,” were viewed as the source of oppression and self-alienation. One of his most famous followers coined the phrase “pedagogy of negativity” to emphasize the stand teachers should take against education becoming in any way a process of cultural transmission. A more recent spokesperson of the Freirean mission of unlimited emancipation, Moacir Gadotti, attempts to merge the idea of a form of education that supposedly avoids the oppressive nature of cultural transmission with the need to create a “pedagogy of the earth.” As Gadotti puts it, education that achieves a “planetary citizenship” cannot “be as Emile Durkheim explained, ‘the transmission of culture from one generation to the next,’ but (it should be) the grand journey of each individual in his interior universe and in the universe that surrounds him” (2002, p. 8). This is essentially the same idea that was central to Freire’s idea that humanization can only be achieved as each generation renames the world of the previous generation.

Gadotti also reproduces Freire’s imperialistic idea that there is only one-true approach to knowledge, and that it should be universalized. What is amazing about the thinking of Freire and Gadotti is that if the process of cultural transmission were to be avoided entirely (which is an impossibility), individuals would have to create their own individualized language—which neither Freire nor Gadotti were able to do. Equally amazing in light of the importance of the diversity of the world’s cultural and environmental commons is the recommendation that the exploration of one’s subjective experiences would lead to a common form of “planetary citizen”.

What is less amazing is why so many educators have accepted the idea that there is an alternative to avoiding all forms of cultural transmission—or what is referred to as socialization. There is a simple explanation for the widespread acceptance that students can construct their own knowledge from direct experiences—and even their inner subjective universe. That is, this utopian ideal of what education can achieve, which even Freire, Gadotti, and their many followers could not achieve in terms of their own lives, can be traced to the failure of public schools and universities to provide students
with the language and an understanding of a theory that would enable them to recognize
the multiple languaging processes that they interact with on a daily basis—and that
reproduce the culture’s earlier ways of thinking. As pointed out in previous chapters, the
way of thinking of change as the expression of a linear form of progress, the individual as
the basic social unit (Dewey did not go along with this one), the rational process as free
of cultural/linguistic influence, and the evolution of cultures as in a straight line from
primitive to advanced and complex, is reproduced intergenerationally by being socialized
to use the layered metaphorical language that carries forward these interpretative
frameworks. Even the ethnocentrism that is the hallmark of the thinking of Dewey,
Freire, and their many constructivist followers, is part of the taken-for-granted process of
learning to think within the conceptual framework made available in the languaging
processes that sustain daily life. Gregory Bateson’s explanation of why people do not
recognize the take-for-granted assumptions of others even when these assumptions are so
culturally and ecologically problematic, is particularly relevant here. As he points out in
Steps to an Ecology of Mind (1972), thinking occurs when differences are recognized.
Because there were no real differences between the cultural assumptions held by Dewey,
Freire, and their current followers, thinking in ways that made these assumptions explicit
has not occurred—at least to this date.

It needs to be reiterated here that the cultural commons, which has an important
influence on how the environmental commons is understood and cared for, is based on
intergenerational knowledge—which can be variously understood as traditions or
acquired through what is meant by cultural transmission (though this metaphor sounds
too mechanistic to account for what really occurs). If environmental and other educators
adopt the emancipatory pedagogy of Freire, which can also understood as students
constructing their own knowledge of natural and cultural processes, they are likely to
ignore the importance of providing students with an understanding of how past ways of
cultural thinking and traditions became part of today’s taken-for-granted reality. And in
not learning the conceptual means for making explicit this intergenerational knowledge,
and how it differs between cultures, the students will be less able to recognize what needs
to be renewed and what needs to be reformed or abandoned completely. This seems to
be a major misconception that Freire’s followers continue to perpetuate: namely, that
critical reflection by itself has the potential of helping students recognize the empowering traditions that are now under threat by market forces and by ideologues who want to overturn our Constitution and what remains of the democratic process.

The following is a summary of how the ideas of Freire directly and indirectly contribute to the enclosure of the cultural and environmental commons:

1. His argument that critical inquiry should be adopted by all cultures as the one-true source of knowledge and humanization is imperialistic; it also marginalizes the importance of learning about the differences in cultural knowledge systems.

2. Freire’s emphasis on individuals constructing their own knowledge fails to take account of how the individual (Freire included) gives individualized expression to the cultural assumptions that are learned as part of becoming a member of the language community.

3. The goal of continual emancipation fails to take account of the traditions essential to our civil rights and to a sustainable commons that need to be intergenerationally renewed.

4. Freire’s social Darwinian framework contributes to his hubris and that of his followers, and thus to ignoring what can be learned from ecologically-centered cultures.

5. The form of individual subjectivity that is reinforced by telling students to construct their own knowledge contributes to their lacking the skills and knowledge that would enable them to be less dependent upon consumerism.

6. Freire’s followers exhibit the same friend/enemy approach to criticism that is now a prominent characteristic of market-liberal and Christian fundamentalists. While these latter groups now exploit the democratic process that they have helped to weaken, the followers of Freire remain silent about the need to conserve the traditions that underlie a democratic society, such as separation of church and state, the separation of powers, an independent judiciary, and freedom from seizure and violation of privacy. Both the market-liberals and Christian fundamentalists as well as the followers of Freire claim to be agents of progress, even though one of the expressions of progress is down the slippery slope toward
an Orwellian/fascist society while the other leads to the nihilism that accompanies
the anomic form of individualism.

7. The language essential to understanding the nature and importance of the cultural
and environmental commons is not just relegated to the realm of silence; anyone
that attempts to use it will be labeled as a reactionary, a rabid anti-Marxist thinker,
and even a fascist (Freire’s followers have little background in political theory
and thus tend to misuse these political labels, just as they mistakenly refer to one
of the most transformative forces in human history, that is, the industrial culture,
as the expression of conservatism).

The University’s Contribution to Supporting a Constructivist View of Learning.

Most professors of education who promote a constructivist view of learning
assume that the individual is the basic social unit. As this idea became recognized as
untenable, some professors of education continue to hold the general idea that knowledge
is a human construction as opposed to having a divine or non-human origin. They now
identify themselves as social constructivists. To support their revisionist brand of
constructivism, they identify the Russian linguist, Lev Vygotsky, as well as Peter Berger
and Thomas Luckmann, as providing the theoretical basis for maintaining that knowledge
is socially constructed. A careful reading of Vygotsky and the writings of Berger and
Luckmann should lead to recognizing that the process of socialization, and the role of
language in this process, does not adequately explain the symbolic differences between
the intergenerational knowledge of different cultures. Nor do their writings adequately
account for the different ways in which knowledge is shared and renewed. If education
professors want to argue that knowledge and values are constructed rather than
representative of an objective and external reality, they should argue that students give
individualized interpretations of the shared cultural values and patterns of thinking—with
some individualized expressions being more original and culturally changing than others.
In effect, they can make an argument that is supported by evidence from different
cultures that students participate in the cultural construction and renewal of
knowledge—with some students even becoming a reactionary force that clings to the
misconceptions that traditions do not change. For a fuller account of the cultural
construction of knowledge I suggest that the reader look at chapters 3 of *The False Promises of Constructivist Theories of Learning*. (Bowers, 2005)

There are a number of ways in which universities reinforce something half-way between the idea that students construct their own knowledge (or are at least responsible for what they originate and for acknowledging what is borrowed from others) and an awareness that what people take to be “reality” reflects a social consensus that changes over time. Both views contribute to the widespread sense of moral relativism—and to a form of individualism that is competitive and self-centered. This is the form of individualism that moves easily from being in the university classroom to being ardent supporters of market liberal domestic and foreign policies.

As I pointed out in *The Culture of Denial* (1997), most university courses reinforce the idea that with further education students possess the potential to become autonomous thinkers. This misconception is further reinforced by a shared silence on the part of faculty that language is not really a conduit through which objective ideas and objective information is passed between individual thinkers. An additional source of reinforcement of the idea of individual autonomy is the emphasis on the authority of the printed word over the supposedly subjectively unreliable nature of the spoken word. Computer mediated learning further reinforces the idea of being an autonomous individual who makes a continual series of subjective choices about the possibilities to be explored on the internet. And then there is the influence of science that professors in other disciplines want to emulate by emphasizing the importance of data and objective knowledge—which has the effect of further marginalizing an awareness of the influence of culture on the individual’s thinking and behavior. Even the professor’s professors, including their professors that go back even further in time, are part of the cultural ecology that influences the silences and cultural assumptions that are taken-for-granted in the students’ ways of thinking. One of these intergenerational silences is the source of the ethnocentrism that is so widespread within the academic disciplines. The perpetuation of the conduit view of language is also the result of this intergenerational silence, as well as the lack of awareness of the cultural and environmental commons.

Professors in areas other than educational studies and teacher education also reinforce a constructivist view of learning; but they seldom rely upon the theories of
Dewey, Freire, Piaget, or even the romantic accounts of progressive education classrooms. What the university curriculum represents as high-status knowledge, as well as what it represents as low-status by virtue of being left out of the curriculum (except in low-status courses such as folk studies) influences how students will think about the forms and approaches to knowledge that are empowering. The irony is that even though the everyday life both of students and professors involves participating in the many forms of learning that are part of the cultural commons, few are aware that strengthening the commons represents one of the few remaining pathways that humankind can take if they are to achieve a post industrial existence. Unfortunately, the intergenerational knowledge and skills they reenact on a daily basis are simply taken for granted.

The common expressions such as the use of personal pronouns—"I think," "I want," and "what do you want?" and so on-- continually reinforce the misconception that knowledge is acquired or constructed through the mental activity of the individual. This Cartesian tendency to identify knowledge with thinking about an external world, which has also been influenced by other philosophers who argued that direct experiences rather than traditions are the source of ideas, creates a special problem for classroom teachers and professors who are attempting to introduce students to the nature and importance of the local cultural and environmental commons.

**Pedagogical Implications of a Culturally-Grounded Understanding of Learning.**

The reality of every student/teacher relationship, including relationships between students and what is mediated through computer-based education, is that they are participants in multiple languaging processes. These include the culturally prescribed patterns of metacommunication that are critical in framing relationships and reinforcing the taken-for-granted prejudices that reflect gender, class, and racial differences. These languaging processes also include the metaphorically layered language that is both read and spoken—and that makes up both the formal and informal curriculum. Some of the students may be from cultures that place high value on family and cultural traditions, while others will be oriented to acquiring whatever is new and fashionable. There will be differences in religious backgrounds as well as daily experiences that are filtered through class, gender, and racial lenses. Their defining narratives will differ, as well as their more subjective expectations of what the future holds for them. And as the students
move through the grade levels, and into some form of higher education, they will encounter the same range of variation among the faculty.

These differences influence which vocabulary is privileged, as well as the analogies and theories students will be exposed to—often at a stage when they lack the conceptual background necessary for recognizing misconceptions and ideologically driven explanations. My own study of Western philosophy, at both the undergraduate and graduate level was representative of this process. The professors teaching the courses on Plato and Aristotle, as well as the ideas of Descartes, Hume, and Dewey—to cite just a few, did not mention the cultural commons; nor did they encourage their students to examine how these philosophers contributed to a form of consciousness that took-for-granted the human exploitation of the environment and the colonization of non-Western cultures. Looking back on my own early education, it is now easy to recognize how the limited thinking of my professors was a form of indoctrination, and not the rationally-based knowledge that they claimed it to be.

If a single reason has to be identified as to why the theories of learning of Dewey, Freire, and the other constructivists don’t work it is because they are not culturally grounded. What was discussed earlier chapters needs to be taken into account here, including the earlier argument that different cultures are based on different mythopoetic narratives—or what I am referring to as root metaphors that provide the basic interpretative framework or frameworks of the culture. As both teachers and students think within the conceptual categories of their culture, with only minor variations in interpretation and in what will be made explicit and what will be left implicit, there is no possibility of escaping the taken-for-granted traditions (habits) that Dewey thought were divorced from any active form of intelligence, and that Freire assumed could be transformed through critical inquiry.

If we start with a culturally-informed pedagogy and approach to curriculum, we find that there are many different approaches to teaching and learning. Common sense dictates that group learning, individual inquiry, embodied learning, student observations, listening to narratives, and so forth, are forms of learning found in most cultures. Mentoring is also a source of learning that is carried on in both Western and non-Western cultures—and it can occur in a variety of areas of cultural life ranging from the arts, craft
knowledge and skill, to learning the medicinal knowledge of plants, and to playing games, and so forth. All of these approaches to learning should be part of helping students to understand and to participate in the local cultural commons. Each of these approaches to learning, and they often involve more than one approach at a time, will be influenced by the cultural context.

The taken-for-granted nature of most of the students’ and teachers’ cultural knowledge, as well as the continual process of cultural reproduction that accompanies the use of the different languages of the culture suggest that there is a special set of responsibilities that will set teachers and professors off from the other sources of learning in the community. That is, their role is that of mediators rather than that of indoctrinators, as in the case of the ideologically-driven interpretation of the constructivist teachers whose mission is to change the world that they largely misunderstand because of their reliance on pre-ecological states of awareness. The idea of a mediator suggests that there are different ways of thinking, different forces that are pulling cultures in different directions, and different ways of confronting the challenges of an expanding world population in a time of a rapidly degraded environment. These rather abstract ways of representing the differences as well as commonalities within and between cultures, and within ecosystems, can be understood in more concrete terms if we recall the earlier discussion of how ecojustice and renewal of the cultural and environmental commons could be introduced into the all areas of the public school and university curricula.

Recent announcements by scientists that the rapid rate of global warming, particularly its impact on the two polar ice shields and the glaciers covering most of Greenland, may be within a decade of reaching a tipping point where changes in human activities will not be able to reverse or even slow down the increasing rate of global warming brings us to consider the importance of the principles of ecojustic that should be a guide for educational reformers. To recall, the achievement of greater ecojustice involves initiating cultural changes that reduce environmental racism, that limit the exploitation of the resources and cultural colonization of non-Western cultures, that renew the cultural and environmental commons as alternatives to the further expansion of a money-based, consumer culture, that ensures that prospects of future generations are not diminished by the current generations destruction of the environment, and that non-
human forms of life be understood as having rights within the larger ecosystems of which they are apart. The part of this ecojustice agenda that is critical to the achievement of the other five guiding principles is the one that focuses on the need to strengthen the cultural and environmental commons of local communities as a way of limiting, and hopefully reversing, the further expansion of the industrial/consumer dependent culture that is now spreading around the world. Recognizing the double bind in continuing to think of progress in terms of expanding markets and colonizing more of the world’s cultures to adopt a consumer-dependent lifestyle suggests the larger conceptual, moral, and political framework that should guide the classroom and university professor’s mediating role.

The extent of the ecological crises, which is partly attributable to the global impact of the high-status forms of knowledge promoted in Western universities, strongly suggests that teaching as a process of mediation needs to extend across university disciplines. The consensus within the various disciplines, unless it is based on an understanding of the cultural practices and beliefs that are contributing to the growing ecological crisis (which even some evangelical Christians now recognize) should no longer be passed onto the next generation as knowledge that can be relied upon for contributing to a sustainable future. It needs to be examined in terms of what contributes to meeting the principles of ecojustice—and this means, in part, what contributes to living less consumer dependent lives. This process of examining the assumptions underlying the consensus knowledge, and even the efforts at radical revisions that seldom address environmental issues, is one of mediation—especially if the sustaining characteristics of the local cultural and environmental commons are being considered.

**Teaching as a Process of Mediating**

A point reiterated in earlier chapters is that the globalization of the West’s industrial, consumer-dependent culture (which is now being vigorously promoted in China and India) is a major contributor to the enclosure of the world’s diverse cultural and environmental commons—and thus a major contributor to global warming, the acidification of the world’s oceans, and to the other dimensions of ecological crises. The curriculum reforms suggested earlier where the practices of the local cultural commons are examined in terms of their ability to enable people to live less money-dependent and thus more mutually supportive lives involves a mediating form of education which
requires that teachers and professors possess an historical as well as background knowledge of the industrial culture. The achievements of the West’s industrial culture, including the science it is based upon, simply cannot be rejected out of hand. Rather, the process of mediating between the local commons and the achievements as well as the destructive nature of the industrial culture needs to receive the same critical reflection that should be part of any discussion of the culture’s traditions: namely, what needs to be conserved because it contributes to living less environmentally destructive and more morally coherent community-centered lives. In terms of the science, technology, and market-based industrial culture, the question that need to be asked is: What are the genuine contributions of the industrial culture and what needs to be abandoned as destructive of the intergenerational knowledge essential to the well-being of different cultures and to their prospects for living sustainable lives? This process of mediating between the local and the global nature of the industrial culture strengthens the basis of local democratic decision-making. If members of the community are not aware of the traditions that are sources of mutual self-sufficiency and civil society they will not be aware of when they are being enclosed by the increasingly centralized power of a market controlled political system. The loss of privacy as well as the control that the World Trade Organization now exercises over local decision making are just two examples of the failure of local democracy.

As the new technologies are major factors in creating a globally connected economy, the process of mediating (that is, clarifying) the differences between the cultural and environmental commons become critically important. The process of mediating between how students understand the impact of the West’s industrial culture, and the different expressions of local resistance is important for a number of reasons. First, there are the moral issues connected with how our hyper-consumer dependent lifestyle contributes to the destruction of the habitats of other cultures, such as the toxins from mining operations that poison the local water supply, the changes in weather patterns that contribute to droughts, and the way in which international trade agreements privilege industrial countries at the expense of local farmers and producers. Second, the moral issues relate directly to the political and economic issues connected with the migration of large populations from areas where a decent living can no longer be
achieved. Third, turning environments that could at least provide for a subsistence living into waste lands is problematic for reasons having to do with how natural systems are interconnected.

The destruction of habitats are not just isolated situations, but have an impact on the living systems that are interdependent with neighboring systems. It’s an interconnected world of ecosystems and cultures, and developing an ecological form of consciousness, which will differ from culture to culture, requires a process of education where questions can be asked, comparisons made, silences made explicit, and where different practices and values can be assessed in light of a world situation where progress can no longer be taken for granted. And the mediating role of the teacher and professor is to help students understand how the commons they rely upon and take-for-granted is being altered as the industrial culture encloses more aspects of their daily lives. This process of mediating between the traditions of the industrial culture and the traditions of the local cultural and environmental commons that are part of the students’ taken-for-granted experience should also involve identifying both the genuine contributions of the industrial culture, including the more recent efforts to develop ecologically responsible technologies, and the new forms of dependency that are being created.

The process of mediating between traditions and innovations, between Western and non-Western patterns of thinking and living, between the silences and the explicit knowledge, between science and scientism, between a consumer dependent culture and cultures that have achieved a sustainable balance between market and non-market activities, and between local democratic decision-making and the economic and ideological forces behind globalization, seems better suited to where we are in terms of the uncertainties that are being introduced by the ecological changes the world is now undergoing. There are a few certainties that now must be recognized. These include the impossibility of reversing the changes that are now taking place in the world’s oceans, climate, and diversity of species and viable habitats. Another certainty is that if we do not reduce our dependence upon consumerism and the exploitation of the environment the prospects of our own as well as that of future generations will be severely diminished. A third certainty is that the destruction of the cultural commons that enabled people in many cultures to live less money dependent lives will lead both to more poverty and to
social unrest—and thus to increasing cycles of repression and warfare as the hegemonic cultures attempt to retain their wealth and power. And a fourth certainty, given the nearly forty percent of the American public that supports the efforts of market-liberal and Christian fundamentalists to dismantle what remains of our democratic institutions, is that the disruptions caused by environmental and economic changes will lead people to seek an authoritarian government that can enforce order in an increasingly chaotic society and world.

These certainties should prompt classroom teachers and university professors to take seriously their role as mediators in an era when the cultural assumptions that held out the promise of unending progress are now being challenged on so many fronts. What is less certain is whether public school teachers and university professors will recognize the threats that lie ahead, and will be able to re-educate themselves and others in how to live within a post-industrial world of diverse cultural commons. As I have pointed out elsewhere, the more likely response will be to pursue the traditional areas of inquiry dictated by the academic discipline and to pursue individual areas of inquiry that will lead to professional advancement within the department and field. And this will lead to yet another certainty: namely, that the most highly educated segment of our society will have failed to ensure the prospects of future generations and to help reduce the spread of poverty and misery of billions of people who are now being directly affected by the environmental changes that our lifestyle has contributed to.

For classroom teachers and professors who refuse to live in a state of denial about the short and long-term implications of the ecological crises, as well as the crisis of an increasingly money-dependent lifestyle, there are the practical questions of how to introduce students at different levels of the educational process to an understanding of the cultural and environmental commons that need to be revitalized—as well as to the cultural forces that are undermining them. This task cannot be reduced in formulaic fashion by the creation of curriculum guides that are to be used on a national basis. The differences in local cultural and environmental commons rule this out. The conceptual differences that each classroom teacher and university professor will bring to the framing and discussion of the commons and enclosure issues is also a potential source of mis-education—especially, when they lack an in-depth knowledge of both the local commons
and the many ways in which the industrial culture engages in the process of integrating the commons into a money economy. However, if the following guidelines are followed, the problem of imposing the form of consciousness that contributed to the expansion of the industrial culture at the expense of the cultural and environmental commons can be reduced. The following guidelines will help to develop the vocabulary and understanding of relationships that students need to acquire if they are to contribute to reversing the slippery slope we are now on.

These include: (1) Developing the language and an understanding of the ecology of interactive relationships by naming the cultural patterns that otherwise would remain as part of the students’ taken-for-granted experience of the cultural commons. To reiterate, feminists demonstrated the importance of naming the cultural patterns that were based on age-old prejudices that were taken-for-granted by even the most educated segments of society. Naming the patterns brought them out of the collective silence and made them the focus of public discourse on what constituted social justice. Helping students to recognize the difference between what they experience in terms of cultural patterns when they participate in oral forms of communication and when communication is based on print, such as books and computers. Naming the differences between the experience of a meal shared with the family and an industrially prepared meal, between participating in having a consumer relationship with one of the arts, between practicing a craft and having to purchase a ready made object, between experiencing the open countryside and seeing giant billboards along the highway, between work that is returned as part of a mutually supportive community activity and work that is done in order to acquire money, between the experience of privacy and knowing that all personal activities are now under surveillance by corporations and the government, and so on--- provides the students with the language necessary for communicative competence for questioning what forms of enclosure need to be resisted. (2) The mediating role of the classroom teacher and university professor should assist students in understanding the relationships between various aspects of the cultural and environmental commons that are being enclosed for the purpose of profits and how the process of enclosure contributes to the further degradation of natural systems and to creating a greater dependence upon a money economy. (3) The classroom teacher and university professor (depending upon
grade level) must be prepared to provide an historical understanding of the development of the cultural commons, an accurate representation of the natural systems that existed before they were impacted by various cultural forms of enclosure, as well as the scientific, technological, and ideological developments that gave rise to the industrial culture as we know it today.

As the individual’s everyday experience of the cultural commons and the industrial culture are seldom entirely separate, the mediating role should discourage categorical thinking whereby what is purchased is always viewed as destructive of the cultural and environmental commons. What the students’ need to learn is how to recognize the technologies and systems of production that contribute to the general well-being of the community, and those that deskill, impoverish, and degrade both the community and the environment. This same process of clarification should also extend to understanding the ideological and religious traditions that inhibit the achievement of ecojustice within the local community and in the larger world—and that now threaten what remains of our civil rights and democratic institutions. (4) Whenever possible, the process of learning about the renewal of the cultural and environmental commons, as well as the various forms of enclosure, should be in the context of community participation—with mentors, with others involved in mutual support activities, and with political activists who are engaged in democratic forms of resistance.

If these general guidelines are followed, the biases and silences that were part of the education of classroom teachers and university professors will have less of a detrimental impact. It’s when the learning process is mediated primarily through the printed word or other forms of abstract representation that indoctrination takes place. By making the description of experiences that are generally not made explicit (that is, not named and not analyzed) the starting point, the process of learning and teaching becomes more mutual and less of a sender/receiver relationship.

As global warming accelerates, and as sources of protein and potable water continue to decline, it will be necessary for teachers and professors to continually remind themselves that the high-status knowledge that has gotten us into this situation must not be imposed on the next generation. It will also be necessary for teachers and professors to remind themselves that the road to a post-industrial future can be traced back to the
beginning of human history. The challenge today is to recognize a point Herman Daly made about the inability of natural systems to survive unlimited economic growth. Another point he makes that has particular relevance for understanding the future possibilities of the world’s diverse cultural commons is that the symbolic systems (the arts, narratives, face-to-face relationships) can be expanded indefinitely without destroying the natural systems we depend upon.

Afterword: A Case of Linguistic Complicity: How the Formulaic Thinking of George Lakoff Supports the Market Liberal’s Agenda of Enclosing What Remains of the Cultural and Environmental Commons

George Lakoff has made important contributions to our understanding of the nature of metaphorical thinking and its role in framing how we think and communicate. One of his important insights is that “words don’t have meaning in isolation. Words are defined relative to a conceptual system.” (2002, p. 29) Unfortunately, one of his shortcoming is that he failed to recognize that the origins of conceptual systems are culturally specific and that they have a history. These conceptual systems, which vary from culture to culture, reflect the power of root metaphors such as the Western root metaphors of patriarchy, progress, mechanism, and individualism. When it comes to his writings on the differences between how liberals and conservatives think Lakoff demonstrates yet another shortcoming that brings his whole project into question. That is, his effort to clarify the values and ideas that separate liberals and conservatives ignores the ecological crises, the enclosing of the world’s diverse cultural and environmental commons by the forces of economic globalization, and the undermining of our democratic institutions by the coalition of market liberal and Christian fundamentalists.

Thus, my advice is that if you are concerned about conserving species and habitats, conserving what remains of the non-monetized local cultural commons and the intergenerational knowledge it is based upon, and conserving such traditions as an independent judiciary, separation of church and state, and the separation of power between the three branches of government, it is important that you do not take George Lakoff as an authority on how to control the frame governing political debates. His two
books that attempt to explain how conservatives and liberals think, *Moral Politics: How Liberals and Conservatives Think* (2002) and the more simplified treatment he gives to the same themes, *Don’t Think of an Elephant: Know Your Values and Frame the Debate* (2004), are outstanding examples of how authors often ignore the advice they want others to follow. Many of his insights about how right-wing extremists have succeeded in becoming the dominant force in American politics are essentially correct—including their long-term approach to establishing the institutes that serve as the incubators for formulating market-liberal policies, and the strategies for achieving them.

However, he ignores his own advice on the more critical issue of using the word “progressive” as the primary metaphor for carrying the fight to the “conservatives”. That is, by ignoring that the right wing extremists are actually a coalition of market-liberal and Christian fundamentalists, he has accepted their take-over (framing) of the word conservative. At the same time, he ignores that a number of the cultural assumptions that underlie what he represents as a progressive, nurturing approach to politics are also the same assumptions that underlie the industrial, consumer-oriented culture that the market-liberals want to expand on a global basis. What is particularly surprising is that the examples of conservative beliefs and values that Lakoff cites turn out to be the core features of the free-market system. His lack of knowledge of the history of ideas is demonstrated when he cites Adam Smith’s principle of laissez-faire as one of the conceptual and moral foundations of the today’s conservatives. And his indifference to doing the necessary background research of current institutes that he labels as conservative can also been seen if one goes to the websites of the CATO and the American Enterprise Institutes. Both have posted statements on their websites that their political philosophy should not be identified as conservative as that “smacks of an unwillingness to change”--as it is noted on the CATO website. Both institutes also claim that they promote free markets and a diminished role for government. On an earlier CATO website posting titled “About Us” the point was made that only in America are people so uninformed that they identify the institute with a conservative agenda. And in labeling William F. Buckley Jr. as a leading conservative thinker, one wonders if Lakoff simply assumed that it was unnecessary to read how free markets were promoted in the *National Review* in order to assess the accuracy of Buckley’s claim to being a
conservative. Perhaps evidence contrary to what fit neatly into his preconceived political categories was too risky for him to pursue.

If Lakoff possessed a more historical understanding of the layered nature of metaphorical thinking, he might have realized that the same root metaphors of individualism, anthropocentrism, and progress as an inherent characteristic of change (along with the hubris of an ethnocentric way of thinking) that support his use of “progressive” as his legitimating metaphor are also taken-for-granted by the market-liberals. By directing his fire against what he thinks conservatism stands for, he forces the environmentalists and social justice advocates to identify themselves as progressive thinkers—even though there is nothing as progressive in terms of undermining important traditions (such as privacy, non-monetized relationships and activities) as the constant stream of technological innovations and the efforts to turn more of the cultural commons into the markets of an ever-expanding industrial/consumer-dependent culture.

Lakoff’s metaphor of the “strict father figure”, which he discusses at length in both books, cannot be traced back to the ideas of intergenerational responsibility that is at the center of Edmund Burke’s conservatism, now can it be found in the writings of such environmental conservatives as Wendell Berry and Vandana Shiva. If Lakoff had done his homework he would have found that the image of the “strict father figure”, as well as the idea that the rich should receive further rewards while the poor deserve to suffer further impoverishment, has its roots in the fundamentalist Christians’ understanding of a wrathful God. Deuteronomy 28 provides the analog for understanding the God/human as well as the rich/poor relationships that the fundamentalist Christians take-for-granted. The reductionist and dichotomous pattern of thinking that characterizes the fundamentalist Christians’ approach to such policy issues as gay marriage, reproductive rights of women, and the teaching of “intelligent design” can also be found in their claim to know the will of God—and to being God’s regents until the Second Coming.

If one follows current political events it should be abundantly clear that both market-liberal and Christian fundamentalists are working together to overturn the traditions of the separation of church and state, an independent judiciary, and the separation of powers between the three branches of government. They are making
progress, to use Lakoff’s favorite metaphor, in undermining the gains made over the last decades in the areas of social justice and, more recently, in environmental protection. Returning the economy to a free-market system that is governed by the supposed natural law of supply and demand, and winning more converts that declare Jesus Christ as their personal savior, is the “progressive” agenda of these two groups. If Lakoff had given attention to the actual political agenda of these two groups, it might have occurred to him to ask “What is it that the market-liberal and Christian fundamentalists want to conserve?

Reactionary is not part of Lakoff’s political vocabulary. Instead of referring to market-liberals and fundamentalists Christians as conservatives when, in fact, today’s market-liberals want to go back to the Truths held several hundred years ago, and today’s fundamentalist Christians want to go back to the Truths held several thousand years ago, he should have used the more accurate labels of “reactionary” and “anti-democratic”. The fundamental difference between a mindful conservative and a reactionary thinker is highlighted in the speech that Supreme Court Justice Antonin Scalia gave at the University of Chicago in 2002. In a speech titled “God’s Justice and Ours,” he acknowledged that he did not subscribe to “the conventional fallacy that the Constitution is a ‘living document’—that is, a text that means from age to age whatever society (or perhaps the Courts) think it ought to mean.” In effect, Scalia is claiming that the political consensus reached over the last two hundred or so years on social justice issues should not be conserved. Rather, the achievements of the democratic process must be rejected in favor of using the “original intent” of the men who wrote the Constitution as the guide for judging which laws are appropriate for the country to live by. The analog for understanding what reactionary means is the person such as Scalia that wants to go back to the”Truths” of an earlier time and thus claim that the achievements in recent years have no significance.

A conservative in the Burkean tradition would want to conserve the political achievements of the recent past—including, within our historical context, the democratic process itself. Journalists and media pundits commit the same error that underlies Lakoff’s context-free use of the conservative metaphor by referring to Scalia as a conservative when it would be more accurate, in light of his ideas, to refer to him as a “reactionary extremist.” That is, he wants to force the nation to go back to an earlier
way of thinking—one that could not anticipate the issues we now face. Lakoff’s use of conservative is context-free as he does not ask what the people he labels as conservative want to conserve. If he had the insight to explore further the deeper and largely unrecognized implications of Scalia’s doctrine of “original intent” he would have found that it is really a subterfuge for declaring the federal laws that regulate corporate abuses and that provide a safety net for the nation’s poor and marginalized to be unConstitutional

There are a number of possible reasons that Lakoff reproduces the formulaic thinking that reduces our political categories to that of conservative and liberal. One plausible explanation is that he wants to ground the theory of metaphor as a branch of cognitive science, which leads him to argue that repetition in the use of preferred metaphors alters the synapses in the brain. As all languages illuminate and hide, which is an aspect of the process of framing which interpretative system is to be used, Lakoff’s scientific orientation marginalizes the importance of understanding the historical nature of how root metaphors (the meta-cognitive schemata) frame the process of thinking over hundreds, even thousands of years—and over a wide range of cultural practices. Examples of root metaphors in the West include mechanism, individualism, patriarchy, progress, anthropocentrism, and, now, evolution. The root metaphors of patriarchy and anthropocentrism (both still held by the market-liberal, fundamentalist Christian coalition) are being challenged by social justice advocates, while “ecology” is beginning to be used as a root metaphor by people concerned with conserving the environmental and the cultural commons.

If Lakoff had adopted an historical perspective on how metaphors carry forward over many generations the analogs that made sense before there was an awareness of environmental limits, and before the various forms of social inequalities were challenged, he might have avoided creating the linguistic double bind that he now wants to saddle social justice and environmental advocates with. That is, his use of “progressive” as the label for many groups, such as environmentalists and civil libertarians, precludes using the vocabulary that foregrounds the real political issues that are on the verge of being decided by the market-liberal and Christian fundamentalists’ understanding of what constitutes progress. Referring to progressive civil libertarians suggests that they are
oriented toward change. This frame hides what they are really about, which is conserving
the liberties and protections that the Constitution guarantees. Instead of using “progress”
as a context-free metaphor (that is, as metaphor that has no historically-grounded
analogues) that market-liberals have a history of identifying with, Lakoff should have used
social and eco-justice as his umbrella (root) metaphors. Civil libertarians are concerned
with using the law to achieve social justice; while environmentalists are concerned with
eco-justice (that is, conserving the cultural and environmental commons for future
generations of humans and natural systems). Tagging environmentalists with the same
context-free metaphor that the timber industry uses to justify cutting what remains of the
old growth forests, and that corporations use to describe their special relationship with the
Bush administration that allows them to help role-back environmental legislation, is
equally problematic.

Lakoff’s insights about how words, and the conceptual systems that people
associate with them, frame what will be the focus of political discourse as well as what
will be ignored is essentially correct. His mistake, which he shares with most journalists,
media pundits, along with other university graduates that should know better, is in not
recognizing the many ways the different expressions of conservatism are an inescapable
aspect of everyday life. These include temperamental conservatism which we all share in
various ways: the food, conversations, friends, place-based experiences, degree of
privacy, and so on, that we are comfortable with. This form of conservatism has no
specific ideological orientation—but it is a form of conservatism shared even by
ideologues that ignore their own experiences in rejecting all forms of conservatism. In
speaking and thinking within the language of our cultural group, we carry forward
(conserve) the taken-for-granted patterns of the culture’s multiple forms of
communication. Depending upon the culture, these taken-for-granted patterns may be
given individualized expression, with some of the patterns being made explicit in ways
that lead to reform or to conscious efforts at conserving them. There is also the
misnamed “conservatism” that is based on the free-market, progress-oriented ideology
promoted by the CATO and American Enterprise Institutes that emphasize the
autonomous individual as the basic unit of rational decision-making and social change.
And there is a long-standing tradition of philosophic conservatism that began with Burke,
and has included critics of de-humanizing technology such as William Morris and Michael Oakeshott. In America, philosophic conservatives presented the cautionary warnings that led to a system of indirect democracy, checks and balances, separation of church and state. As environmental conservatives such as Wendell Berry and Aldo Leopold have appeared on the scene more recently, their writings can also be legitimately included in the category of philosophical conservatism. The recent efforts of a small group of scientists to get their colleagues to take seriously what they call the “precautionary principle” before introducing new technologies into the environment is yet another expression of conservative thinking. However, the oldest form of conservatism that needs to be revitalized is the conserving of the non-monetized intergenerational knowledge, skills, and activities that enabled people to live more mutually supportive and less money dependent lives. It is this form of conservatism that is now being undermined by market liberals who equate progress with turning what remains of the cultural commons into new markets, and the forms of dependency that comes with them. What Lakoff does not recognize is that our traditions of civil liberties are also part of our cultural commons, and that they should not be entrusted to the market liberal and Christian fundamentalists that are now taking the country down the politically slippery slope toward an authoritarian future that they equate with progress.

Lakoff’s limited political vocabulary not only misrepresents who his label of conservative is supposed to fit, but it also leads to a continuation of the intellectual poverty that now characterizes today’s political discourse. Most university professors share Lakoff’s formulaic misuse of the term conservative, which they use as the label for President George W. Bush’s domestic and foreign policies, fundamentalist Christians, Supreme Court justices such as Scalia and Thomas, and the efforts of most corporations to promote the globalization of the West’s industrial, consumer-dependent culture. A consequence of this formulaic thinking is that few university professors take seriously the need for university graduates to have a knowledge of the history of political thought in the West.

The cultural root metaphors of mechanism, individualism, progress, anthropocentrism, as well as the ethnocentrism that frames so much of the content of university courses, contributes to why so many graduates make what appears as the
seamless transition from the classroom to working for the market-liberal goals of the
Bush administration. Without this historical knowledge of what separates the tradition of
philosophic conservatism from the thinking of classical liberalism, many self-labeled
“conservative” students on university campuses are unaware that their ideas are derived
from the classical liberal thinkers, plus more contemporary libertarian theorists. And
many of the professors that continue to misrepresent what today’s faux conservatives
stand for fail to recognize that their liberalism shares many of the assumptions that
underlie the industrial culture they criticize for the social and environmental injustices
they perpetuate.

In light of the scale of environmental changes that are now impacting people’s
lives, what universities should be helping students to understand is the nature and
importance of revitalizing what remains of the cultural and environmental commons—for
reasons that have to do with learning how to live more community-centered and less
money dependent lives, with reducing our ecological foot-print by becoming less
dependent upon industrial foods, health care, leisure activities, and so on, and with
ensuring that the diversity of the world’s cultural commons (including the diversity of
cultural languages) are not further diminished. The potential of the world’s diverse
cultural commons to become sites of resistance to the further expansion of economic
globalization is not learned in most universities. The importance of the cultural commons
as alternatives to the very real possibility of ecological collapse that Jared Diamond
writes about will continue to be marginalized by the way Lakoff reinforces the formulaic
thinking of most university professors. The irony is that both the mislabeled
conservatives and the self-identified liberals (again a form of mislabeling) possess the
liberal vocabulary that came into existence before there was an awareness of
environmental limits, and that there are different cultural ways of knowing. A further
irony is that their shared liberal vocabulary, where the emphasis is placed either on the
metaphors that justify expanding markets and profits or on addressing unresolved social
justice issues that prevent people from participating more fully in a market economy, has
been used in the past to further undermine the cultural commons by promoting a
consumer-dependent existence.
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