

# How the Use of Simulations Effects the Understandability, Memory for, and Persuasiveness of Expert Testimony

#### Introduction

#### Why have experts in court?

To explain evidence that can't be understood by most people without assistance.

#### What do experts do in court?

Experts testify about both facts and opinions. Normal (lay) witness can only testify to facts about which they have direct

knowledge.

# How do experts communicate their testimony?

- Talking
- Using diagrams
- Now, using simulations

#### What are the problems?

"Too" persuasive – in jurors' memories fact and simulation may be confused.



One of these buildings is simulated. Can you tell which one it is?

Morgan Bunch | Dr. Robert Mauro | Psychology Department University of Oregon

#### **Airplane Crash Simulation**



Still image of the simulation used in the video presentation for conditions 2 & 3.

### **Research Objective & Hypotheses**

To determine the effect that simulations have on perceptions of expert testimony.

- Hypothesis 1: Conditions that used a simulation will be more persuasive than those that didn't.
- Hypothesis 2: Participants will show better understanding and memory for the simulations.
- Hypothesis 3: Participants will be more likely to decide in favor of a party to a case when the expert testifies using a simulation.

#### Methodology

#### **Participants**

 University Psychology Oregon Of Department human subjects pool.

#### Design

Participants randomly assigned to one of three conditions based on use of a simulation and use of crossexamination.

	SIMULATION		<b>CROSS-EXAMINATION</b>	
	WITH	WITHOUT	WITH	WITHOUT
: No Simulation, No Cross				
2: Simulation with Cross				
3: Simulation, No Cross				

#### **Dependent Measures**

- Verdict.
- Evaluation of importance, reliability,
- and persuasiveness of testimony • Memory for:
  - Events in evidence but not in the simulation.
  - Events in the simulation and in the evidence.

# Results

# **Limitations & Future Consideration**

#### Understanding

# Bias

# Fairness





Still a work in progress. • Currently in the data collection phase. Data analysis coming soon.

#### Limitations

• Generalizability. Sample size & profile.

• Can increased use of simulations improve judges' and jurors. understanding of scientific and other specialized evidence?

 Can simulations bias judges' and jurors' memories of the facts? • Can possible biases be countered through judge's instructions?

• If only one side in a case has the resources to produce a vivid realistic simulation, does it make the trial unfair?

Should defendants in criminal trials have a right to have simulations provided for them if they can't afford one?

#### References