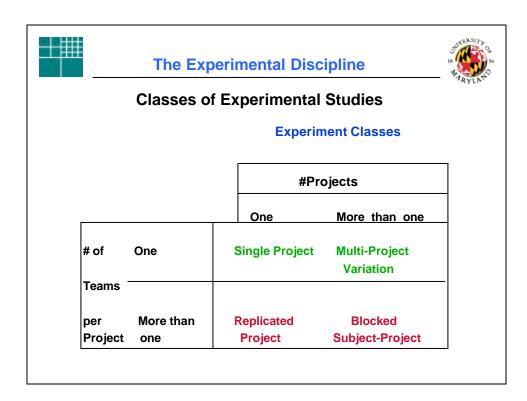
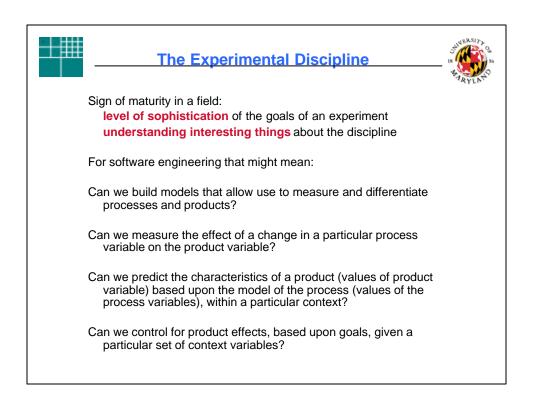
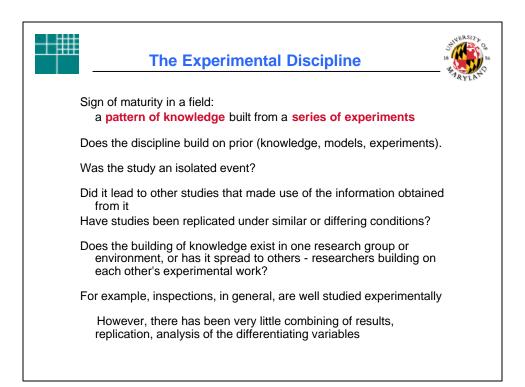
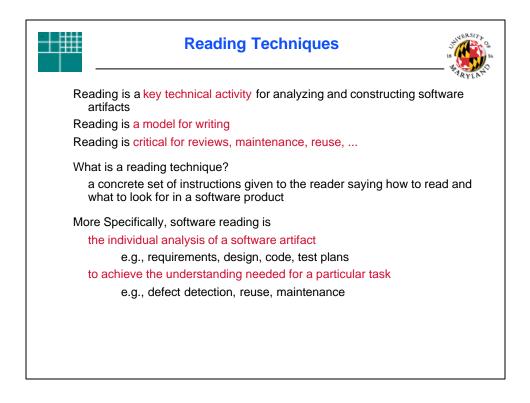


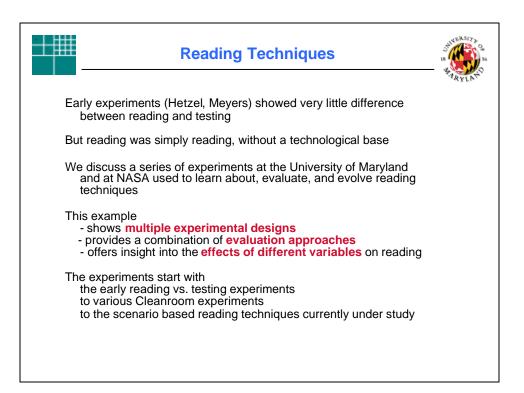
Evolving Knowledge Model Building, Experimenting, and Learning
Like other disciplines, software engineering requires the cycle of model building, experimentation, and learning
The study of software engineering is a laboratory science
We need to understand the nature of the processes, products and the relationship between the two in the context of the system
Research and Development have a symbiotic relationship
Research needs laboratories to observe & manipulate the variables - they only exist where developers build software systems
Development needs to understand how to build systems better - research can provide models to help

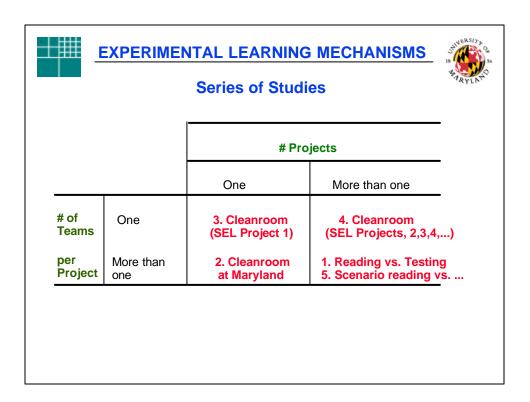


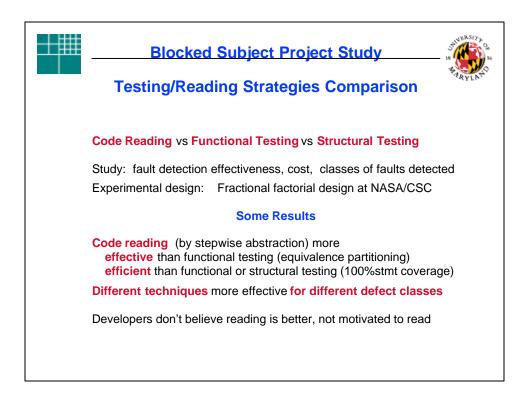


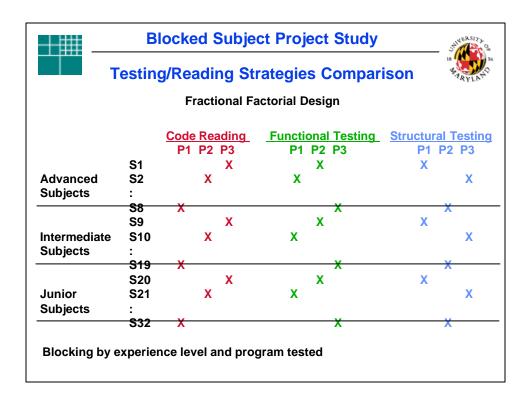


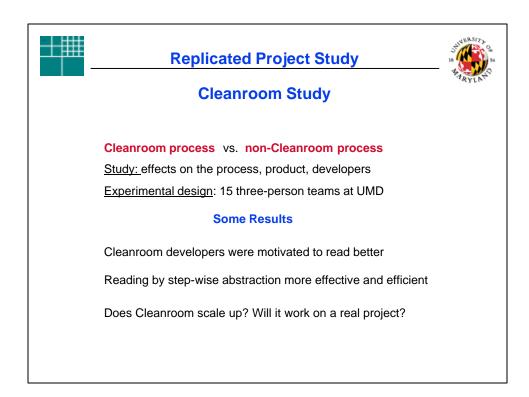


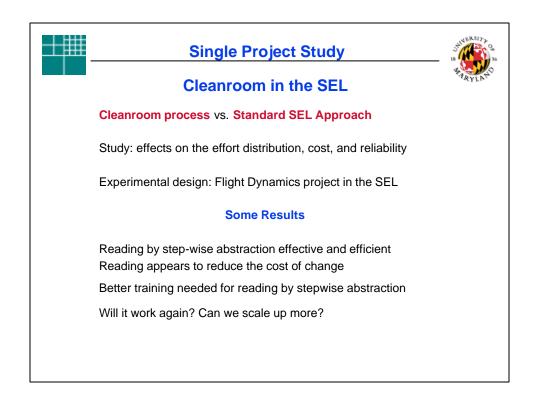


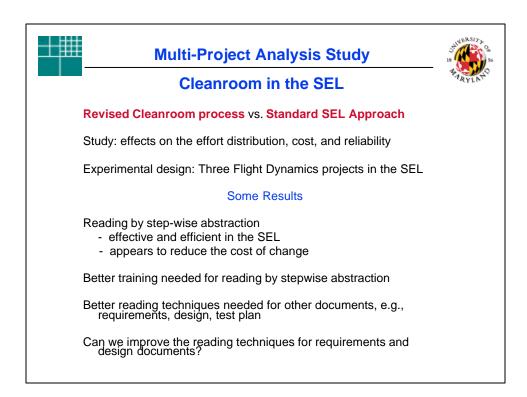


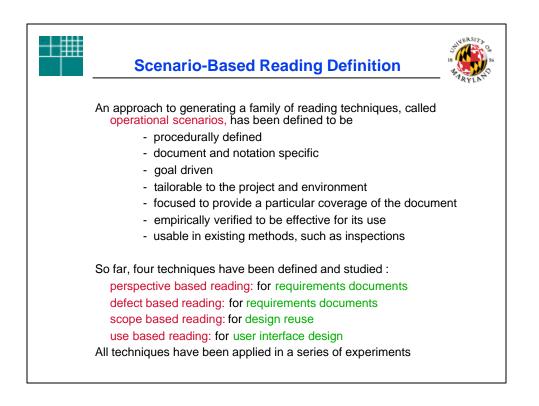


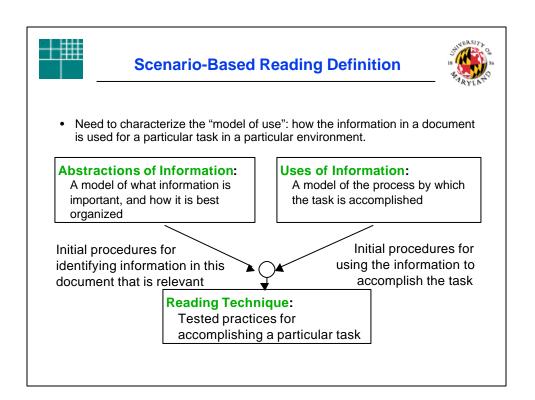


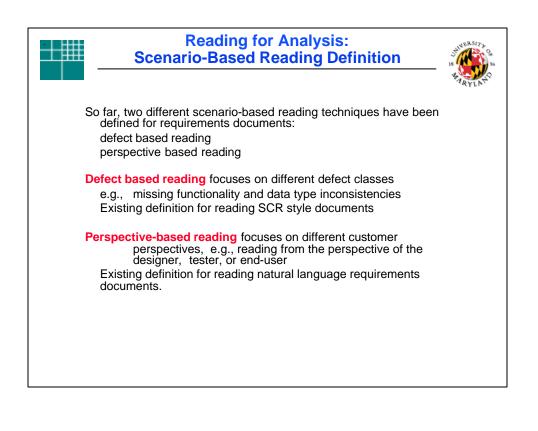


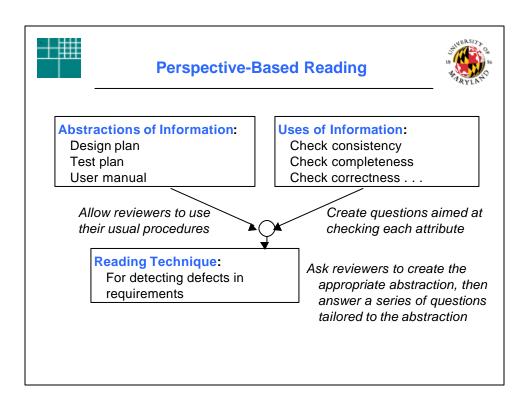


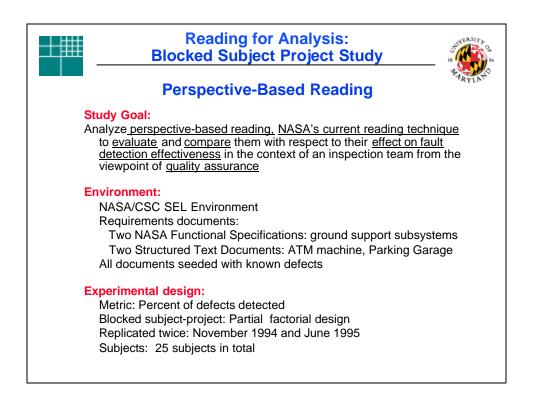


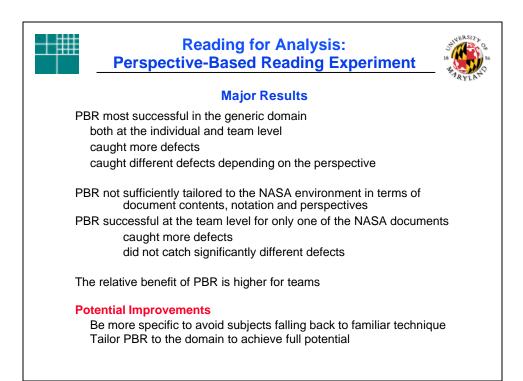


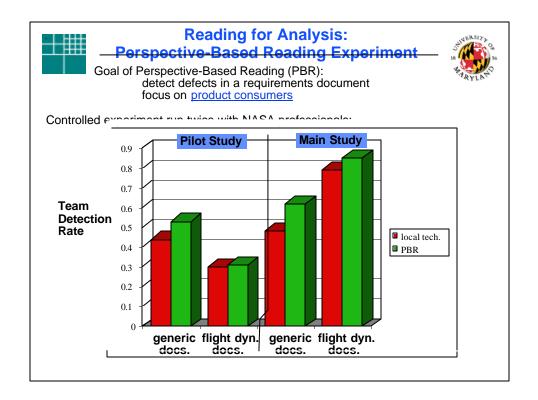


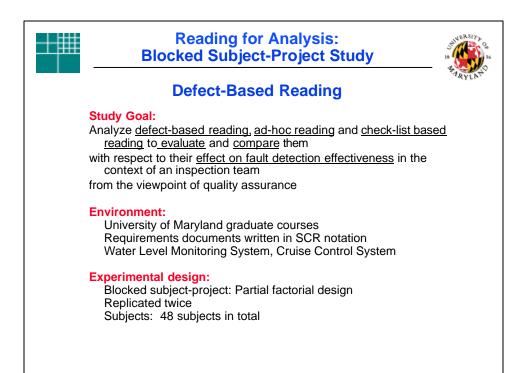


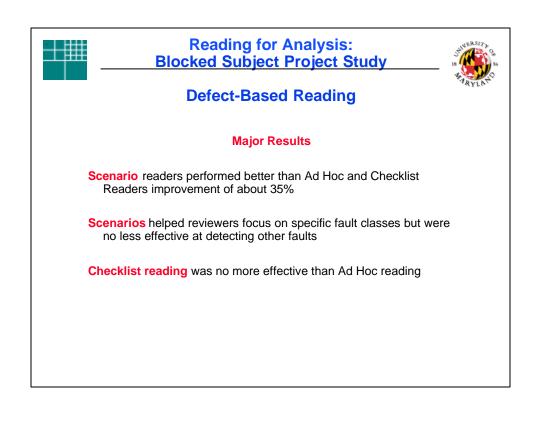


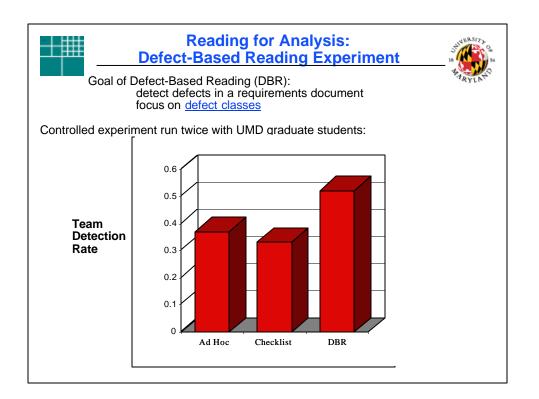


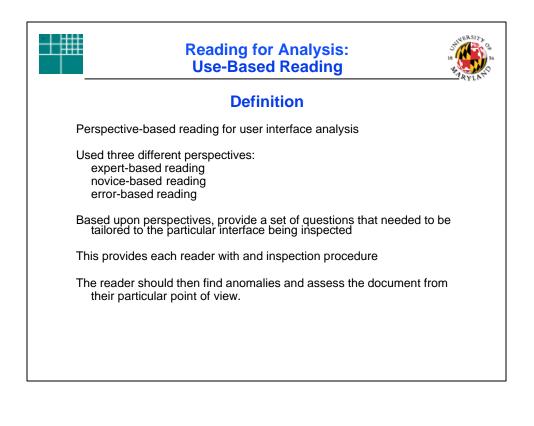


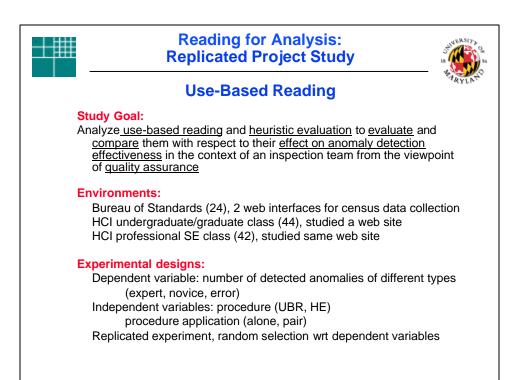


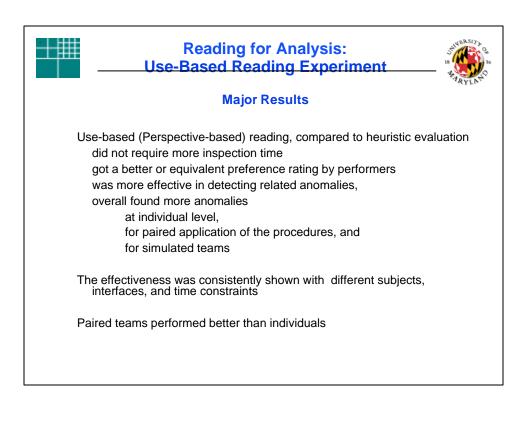


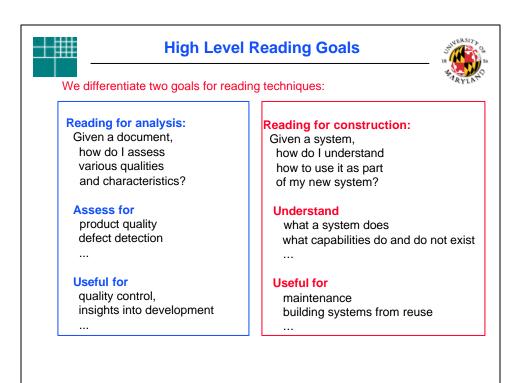


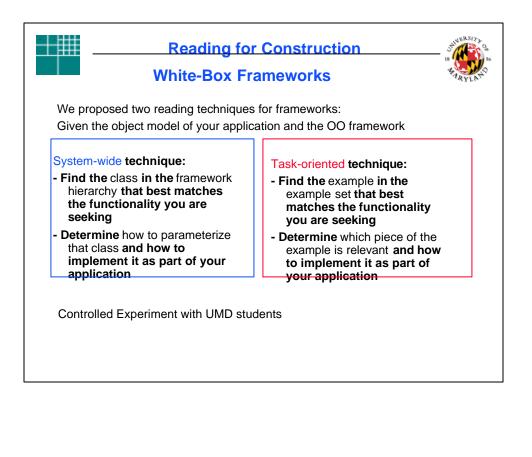


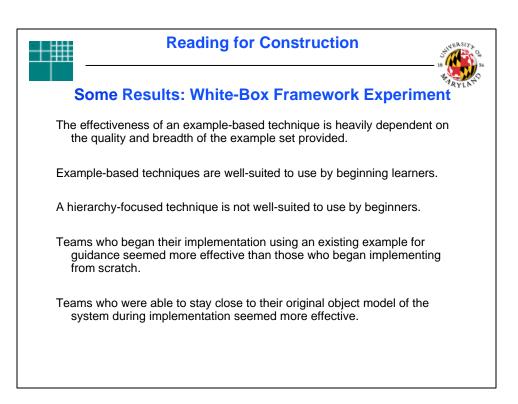


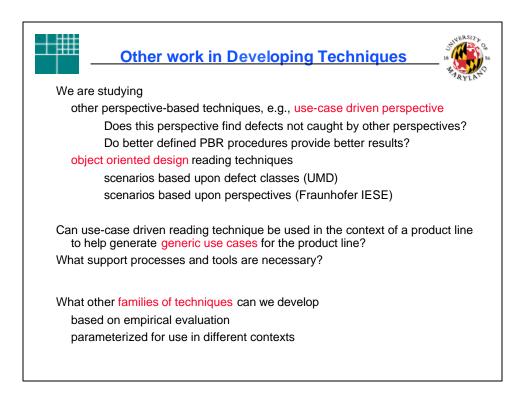


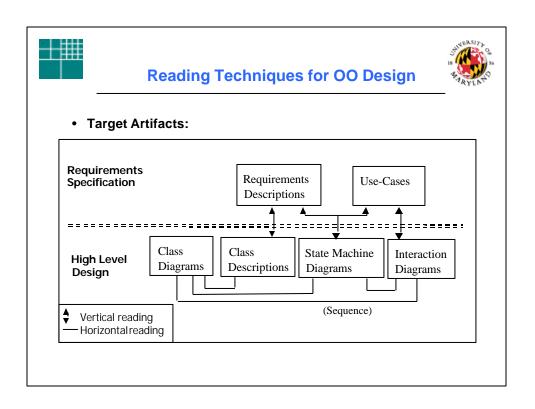


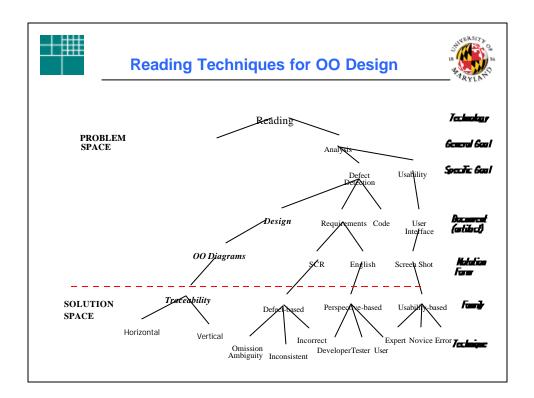


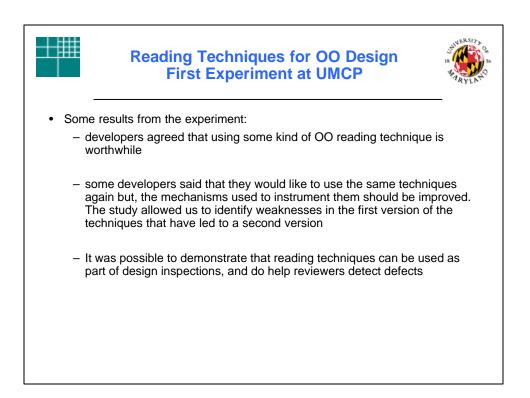


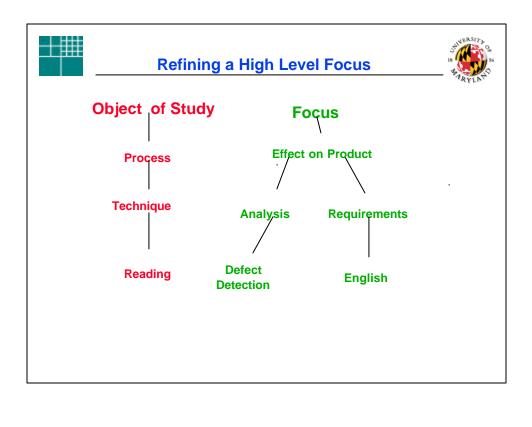


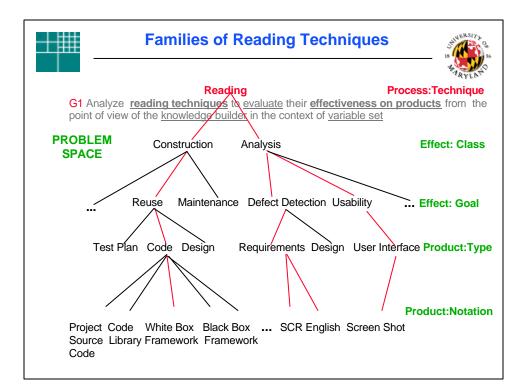


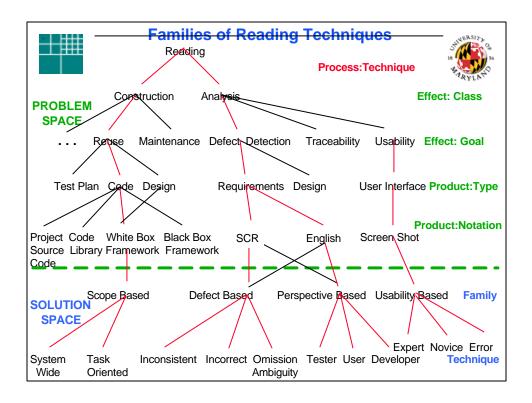


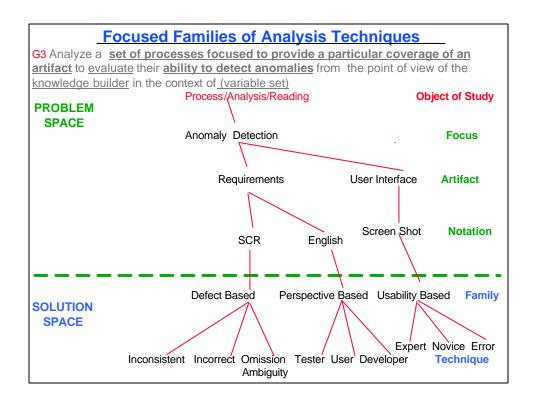


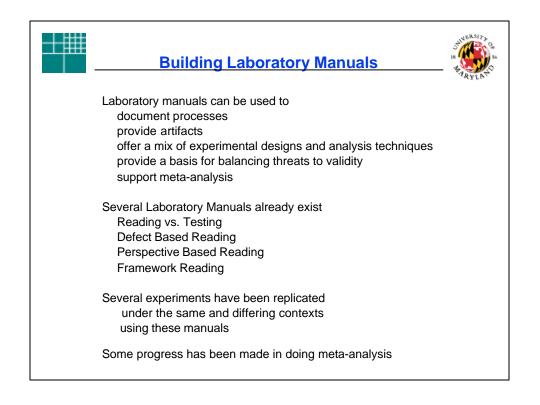


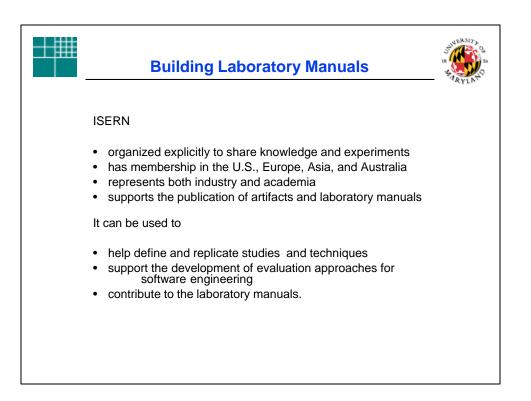


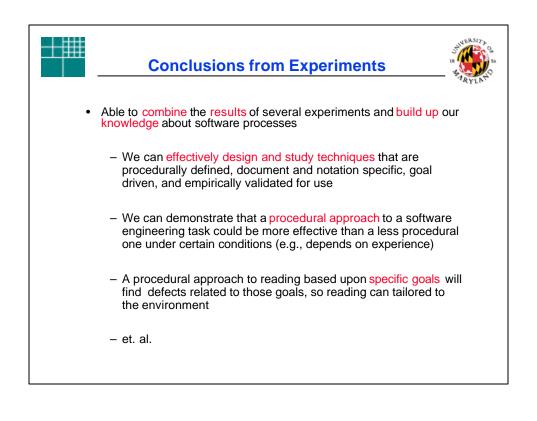












Conclusions about Knowledge Building



• Benefit to Researchers:

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- ability to increase the effectiveness of individual experiments
- offers a framework for building relevant practical SE knowledge
- provides a way to develop and integrate laboratory manuals
- generate a community of experimenters
- Benefits to Practitioners:
 - offers some relevant practical SE knowledge
 - provides a better basis for making judgements about selecting process
 - shows importance of and ability to tailor "best practices"
 - provides support for defining and documenting processes
 - allows organizations to integrate their experiences with processes