CreativeIT:

Synergies Between Creativity and IT

- * An emphasis on synergies between creativity and information technology, science, engineering, and design research.
- * IT, Creativity, and Design:
 - Information technology, enhancing human creative thinking
 - Design, as a reflective process, develops new products/methods/organizations in the context of a perceived need or problem
 - Creative IT, where the focus on problem finding is as important as problem solving
- * The combination of creativity and design thinking in information technology, science, and engineering for transformational research.

IT Changes/Advances

- Future internet: security, speed, all devices
- New applications: business, research and social use of internet
- Expanding market: global competition in IIS
- Crisis in education: information explosion
- Pervasive infrastructure: mobile, distributed computing

Challenges

- Improve/understand creativity and design
- Maintain US competitiveness
- Move towards research led teaching
- Improve interdisciplinary research
- Balance disciplines and collaboration
- Encourage use of new research in practice

Strategies for Responding to Challenges

- Variety of funding schemes:
 - Basic research, individual investigator
 - Research led by industry ideas
 - Research jointly funded with other agencies
 - Networks of multidiscipline researchers
- Community involvement in creative research directions
- Research led teaching, encouraging creativity
- Establish artists and designers in CISE research



