Premier Award for Excellence in Engineering Education Courseware
Quality Review of Courseware on NEEDS

- Establish Credibility of NEEDS as a Source of Quality Educational Material
- Enhance Recognition of Scholarly and Creative Effort of Courseware Developers

- User Comments
- Peer/Expert Review of Courseware
  - Premier Award for Excellence in Engineering Education Courseware
The Premier Award for Excellence in Engineering Education Courseware

• A national competition to identify and reward the authors of high-quality, non-commercial courseware designed to enhance engineering education
  • The *Premier Award* is about the entire experience of using the courseware by learners, not just the courseware itself

• A dissemination system to distribute the Premier Courseware (via CD’s, ASEE Prism ads, presentations at FIE and ASEE)
Premier Award Criteria

- **Instructional Design**
  - Does it enhance learning?
- **Software Design**
  - Is it well designed and usable?
- **Engineering Content**
  - Is the content appropriate and well presented?
Judging and Review Process

• Convene judging panel
  • Professors/content experts, instructional designers, students, publishers
• Review supporting materials in the submission packet
  • Author supplied responses to criteria
  • Evidence of student learning and evaluation
  • Testimonials
• Evaluate and Test the courseware
Premier Courseware of 1997 and 1998

- Virtual Disk Drive Design Studio
- Drill Dissection and Bicycle Dissection
- Mars Navigator
- Della Steam Plant
- MDSolids
- Structural Engineering Visual Encyclopedia - UNH

For more info or to receive copies go to www.needs.org/premier/
Premier Courseware of 1999 and 2000

- Engineering Graphics
- Cracking Dams
- Project Links
- West Point Bridge Designer

2,000 CD-ROMs Distributed

1,600 CD-ROMs Distributed

For more info or to receive copies go to www.needs.org/premier/
Premier Courseware of 2001

- Demonstrations in Signals, Systems and Control
  - By Wilson J. Rugh, Johns Hopkins University
- Joy of Convolution (Discrete Time) with Steve Crutchfield
- Interactive Lecture Module: Harmonic Phasors and Fourier Series with Hsi Chen Lee
- Sense and Sensitivities with Seth Kahn

For more info or to receive copies go to www.needs.org/premier/
Demonstrating Excellence

- Develops higher level cognitive skills
  - Critical Thinking
  - Problem Solving
  - Design
  - Real-life Engineering Situations, Case Studies
  - Simulation
  - Experimentation
Demonstrating Excellence

• Adaptable to multiple learning levels, institutional goals, learning situations (e.g., classrooms, labs or self-learning)
• Addresses different learning styles
  • Visualization, animation
  • Numerical, descriptive
  • Practice problems, interactive games
• Includes information to support adaptation
  • Student reviews
  • Instructors’ guides
Premier Award for Excellence in Engineering Education

• Call for Submissions...

2002 Premier Award
Due, Friday, July 12, 2002
see www.needs.org/premier/2002

www.wiley.com
www.needs.org
www.mathworks.com
www.autodesk.com
www.microsoft.com/research/
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