



Illinois Society of Professional Engineers - University of Illinois
College of Engineering
Professional Engineer On-Line Seminars



INSTRUCTIONS:

1. View the on-line seminar.
2. Complete the quiz below.
3. Complete the "Engineer Information" section.
4. Make a copy for your records.
5. Mail the quiz along with your \$20 payment (credit card information or check payable ISPE) to:
ISPE, 100 East Washington Street, Springfield, IL 62701.

If you score an 80% or better on the quiz, you will receive your certificate within 4 weeks. If you fail to earn an 80% score, the quiz will be returned to you and you will have the opportunity to retake it.

Each seminar/quiz is worth 1 Professional Development Hour.

QUIZ: 04-01
TOPIC: Network for Earthquake Engineering and Simulation (NEES)
PRESENTER: Prof. Dan Kuchman

1. NEES is funded by NSF (National Science Foundation).
(circle) TRUE FALSE
2. What is the main purpose of NEES?
 - a. the establishment of an international earthquake design code.
 - b. the collaboration of researchers in experiments, computational-modeling, and education.
 - c. securing funds from private donors for earthquake engineering research.
 - d. to identify and predict future earthquakes.
3. How many experimental testing facilities received funding during the construction phase of the project?
 - a. 3
 - b. 5
 - c. 15
 - d. 50
4. The strong-wall at the University of Illinois at Urbana-Champaign was made of what type of concrete?
 - a. lightweight concrete
 - b. air entrained concrete
 - c. self-consolidating concrete
 - d. fiber-reinforced concrete
5. The level of tolerance in building the strong-wall at UIUC was:
 - a. 1/8th inch
 - b. 1 inch
 - c. 5 mm
 - d. 5 cm
6. The University of Illinois at Urbana-Champaign has a fully functional 1/5th scale Loading and Boundary Condition Box.
(circle) TRUE FALSE

QUIZ 04-01 CONTINUED

7. Which of the following non-contact measurement devices are used at UIUC?
- a. stress photonics photelastic system using epoxy coating to measure strain
 - b. the Krypton 3D coordinate measurement system using LED to measure displacement
 - c. digital photogrammetric measurement system using cameras
 - d. all of the above
8. The sharing of experimental results and research findings is discouraged by NEES.
(circle) TRUE FALSE
9. Which piece of testing equipment was not mentioned in the lecture?
- a. reconfigurable reaction wall
 - b. field testing equipment
 - c. large uniaxial shake table
 - d. high load capacity compression test machines
10. How much is invested in the NEES project over the next 14 years?
- a. \$5 million
 - b. \$50 million
 - c. \$500 million
 - d. \$5 billion

ENGINEER INFORMATION

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