



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: 02-01

Presenter: Frieder Seible

Topic: Use of Fiber Reinforce Polymers in Seismic Design and Blast Mitigation

1. What is one similarity between Prof. Seible's research and Nathan Newmark's efforts?
 - a. both work with fiber reinforced polymers
 - b. both link seismic loads with blast loads in some manner
 - c. both are highly involved in the NEES effort
 - d. both deal specifically with steel
2. Prof. Seible is highly involved in full-scale testing.
(circle) TRUE FALSE
3. Three simple rules in earthquake simulation and validation were mentioned. Which of the following was not a rule?
 - a. use a controlled laboratory environment for quality data
 - b. the specimen must exhibit representative damage patterns or failure modes
 - c. the experiment must be performed under realistic earthquake simulations
 - d. the test procedure must be approved by appropriate experts
4. Which of the following is not a seismic response modification device mentioned by Prof. Seible:
 - a. isolation bearings
 - b. dampers
 - c. shear walls
 - d. lock-up devices
5. The full-scale test for the friction sliding bearings was necessary because heat and energy dissipation cannot be scaled.

(circle) TRUE FALSE

6. In general, making structural components (i.e. columns) stronger during seismic retrofitting is always better.

(circle) TRUE FALSE

7. One innovation developed by Prof. Seible is:

- a. thin carbon-shells used for concrete covers
- b. base-isolation devices
- c. blast resistant concrete
- d. structural health monitoring

8. The key to the jacketing technology is:

- a. confinement
- b. containment
- c. protection
- d. flexibility

9. UCSD will be home to the world's first:

- a. 6-DOF outdoor shake table
- b. steel-jacketing research center
- c. blast simulation facility
- d. 100g centrifuge

10. UCSD is developing facilities for soil pits that can have exchangeable soil conditions.

(circle) TRUE FALSE

ENGINEER INFORMATION

Name _____

Address _____

City/State/Zip _____ Daytime Phone _____

Fax _____ E-Mail _____

Method of Payment: Check (Payable to ISPE) # _____ Visa _____ Master Card _____

Credit Card # _____ Expiration Date _____ 3-Digit Code on Card Back _____

Print Cardholder's Name _____

Address _____

City _____ State _____ Zip _____

Signature of Cardholder _____

*Mail to: Illinois Society of Professional Engineers, 100 East Washington Street, Springfield, Illinois 62701 or
Fax with credit card information to 217-528-6545.*

*Allow 4 weeks for certificate delivery. Certificate will be mailed to the address provided above.
Contact ISPE at 217-544-7424 with any questions.*