



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: 03-07
TOPIC: Evaluation of Buffeting Analysis of Long-Span Bridges Using Full-Scale Measurements
PRESENTER: Prof. Nicholas P. Jones

1. Which of the following Universities has Dr. Jones not been affiliated with?
 - a. University of Auckland
 - b. Caltech
 - c. John Hopkins
 - d. University of Australia at Sydney
 - e. University of Illinois at Urbana-Champaign
2. The longest bridge in the world is located in Italy.
(circle) TRUE FALSE
3. Navigational clearance is one of the major reasons for building a long span bridge.
(circle) TRUE FALSE
4. The Tacoma-Narrows Bridge collapsed because of:
 - a. Resonance
 - b. Flutter
 - c. Vortex-Induced Vibration
5. Aeroelastic Loads have the following components:
 - a. Flutter Derivatives
 - b. Vertical Displacements
 - c. Buffeting Loads
 - d. Velocities
 - e. a and c
 - f. a and b
 - g. b, c, and d
 - h. a, b, and d
6. The equations of motion used in wind engineering are highly coupled.
(circle) TRUE FALSE

QUIZ 03-07 CONTINUED

7. Because of the variability of the wind environment at the Fred Hartman Bridge, Finite Element Analysis predicted pairs of modes.
(circle) TRUE FALSE
8. As the damping increased at the Fred Hartman Bridge, the predicted response:
a. increased
b. stayed about the same
c. decreased
9. At the Lion's Gate Bridge, the deck was taken out piece by piece between rush hours.
(circle) TRUE FALSE
10. Doctor Jones is more concerned with capturing the correct response in analytical models than wind tunnel empirical models.
(circle) TRUE FALSE

ENGINEER INFORMATION

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