



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



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 05-03
TOPIC: Structural Engineering Lifetime
PRESENTER: Burton Lewis, Illinois Institute of Technology

1. Who serves as the Burton Lewis Chair in the Civil and Environmental Engineering Department at the University of Illinois at Urbana – Champaign?
 - a. Prof. Dodds
 - b. Prof. Mesri
 - c. Prof. Paulino
 - d. Prof. Daniel
2. Burton Lewis received his BSCE from which school in 1948?
 - a. Illinois Institute of Technology
 - b. University of Illinois at Urbana – Champaign
 - c. Standard University
 - d. Massachusetts Institute of Technology
3. While in Austin, Burton Lewis mainly worked on what types of projects?
 - a. Highway bridges
 - b. High-rise buildings
 - c. Large industrial buildings
 - d. Forensic analysis
4. In 1977, Burton Lewis moved to what city to continue his structural engineering career?
 - a. Seattle
 - b. San Diego
 - c. Chicago
 - d. San Francisco
5. The Buchanan Street Overpass mentioned in the presentation was located in what California city?
 - a. Sacramento
 - b. Albany
 - c. Los Angeles
 - d. Oakland

QUIZ 05-03 CONTINUED

- 6. What type of member was used for the sharply curved railroad bridge designed by Burton Lewis in Reno, NV?
 - a. W – sections
 - b. Box girders
 - c. Prestressed “bathtub” concrete section
 - d. Prestressed concrete Bulb – T sections

- 7. What type of column sections were used for the Anchorage, Alaska project mentioned in Burton Lewis’ presentation?
 - a. Steel W – Sections
 - b. Steel Pipe Sections
 - c. Rectangular Concrete Sections
 - d. Circular Concrete Sections

- 8. The precast section piers at the Los Angeles Airport (LAX) did not require footings and produced adequate stiffness.
(circle) TRUE FALSE

- 9. The total program cost of the regional freeway system by the Arizona Department of Transportation completed by Burton Lewis in 1996 was:
 - a. \$80 Million
 - b. \$965 Million
 - c. \$1.285 Billion
 - d. \$2.11 Billion

- 10. One of the key issues in structural engineering management is budgeting projects and not spending large amounts of time on out of scope work.
(circle) TRUE FALSE

- 11. Burton Lewis believes it is easier to move from bridge design early in your career to building design later in your career, rather than vice versa.
(circle) TRUE FALSE

ENGINEER INFORMATION

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