



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: 03-01
Topic: Forensics Engineering
Presenter: Jeff Garrett

1. The Construction Technology Laboratories (CTL) are an independent subsidiary of:
 - a. PCA
 - b. AISC
 - c. ASCE
 - d. UIUC
2. The electronics manufacturing facility in Harvard, Illinois collapsed due to:
 - a. failure of concrete columns subjected to repeated freeze-thaw cycles
 - b. corrosion of steel joists
 - c. the buckling of the first vertical web member of the roof truss under a heavy snow load
 - d. a fire in the east end of the building causing the steel to buckle
3. The masonry wall collapse in Michigan was adequately designed with proper reinforcement and fell only because the fork lift had ruptured a cable stay.
(circle) TRUE FALSE
4. Which is true of the coal conveyor collapse in rural Indiana:
 - a. the automatic sensors were ineffective
 - b. the coal supported the chute after collapse
 - c. the chute filled with coal causing excessive loading
 - d. all of the above
5. The failure of the transmission tower in Dallas, TX could have been prevented if a 9 ft. jump track plate had been used.
(circle) TRUE FALSE
6. Where was the female eyewitness when she saw the tower collapse?
 - a. in a helicopter doing traffic reports for a local radio station
 - b. watching a parade five miles away
 - c. on a nature trail in the surrounding woodlands
 - d. at the base of the transmission tower observing the job

QUIZ 03-01 CONTINUED

7. What was the design wind speed for the Ray-Dome in Greenland?
- 50 mph
 - 100 mph
 - 150 mph
 - 174 mph
8. The collapse of the fiberglass enclosure over the sludge mixing tank in Williamsburg, VA was caused by suction of the fans.
(circle) TRUE FALSE
9. The von Mises theory was not used as defense for the design because:
- the contractor had an inappropriate relationship with Mr. von Mises
 - plagiarism
 - von Mises theory pertains to the behavior of wood structures only
 - von Mises theory is invalid for four-pinned dome structures
10. The west bracket pulled free from the wall in the false work collapse in Rock Creek Park because it was suddenly supporting a cantilever beam after the east bracket buckled.
(circle) TRUE FALSE

ENGINEER INFORMATION

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