



**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.

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**QUIZ:** 04-11  
**TOPIC:** See the World  
**PRESENTER:** William F. Baker, PE, SE

1. What does Skidmore Owings & Merrill give to all its structural engineers?
  - a. ACI 318 and AISC LRFD
  - b. a laptop for personal use
  - c. a three-week tour to see unique structures throughout Europe
  - d. a sketchbook
2. Bill Baker recommended that structural engineers do which of the following?
  - a. find out how an umbrella and a bicycle wheel work
  - b. analyze the flow of forces of the Eiffel Tower
  - c. read as much commentary on design codes in your spare time
  - d. explain complicated design schemes to non-engineers
3. Which of the following architects and engineers did Bill Baker discuss?
  - a. Heinz Isler
  - b. Santiago Calatrava
  - c. Luigi Nervi
  - d. All of the above
4. One major project that SOM was working on at the time of the lecture was:
  - a. renovation of Sears Tower
  - b. Burj Dubai
  - c. bridge that crosses Lake Tahoe
  - d. 1.7 million s.f. headquarters for Kraft Foods.
5. Many of Mr. Baker's slides focused on:
  - a. the prevention of buckling in low-rise buildings
  - b. the creativity and potential of nonlinear structures
  - c. socio-economic impacts of structural engineering design
  - d. the use of computers in structural design

## QUIZ 04-11 CONTINUED

6. SOM designed a 10-story building in London supported by a series of arches.  
(circle)            TRUE            FALSE
7. Gothic Cathedrals efficiently handle tensile force through a simple pre-stressed mortar concept developed by the Romans.  
(circle)            TRUE            FALSE
8. The presentation showed a close up of which of the following:  
a. slow motion collapse of basketball arena  
b. torsional response of unsymmetrical buildings to wind loads  
c. a pin joint  
d. lateral torsional buckling of slender steel girder
9. What is the weakness of many structural engineers?  
a. the inefficient utilization of engineering materials  
b. the overemphasis in design of structural components (beams, columns, etc.) as opposed to whole system design  
c. lack of communication among colleagues  
d. hesitancy to use computer programs in design
10. Heinz Isler designed incredibly thin shelled structures by taking measurements from small-scale membrane models covered in resin.  
(circle)            TRUE            FALSE

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## ENGINEER INFORMATION

Name \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_ Daytime Phone \_\_\_\_\_

Fax \_\_\_\_\_ E-Mail \_\_\_\_\_

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*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.*