JEOPARDY!
STEEL QUIZ QUESTIONS:

1. What is finished?

2. What is a slender-element cross-section?

3. What is $0.9F_y Z$ (but not greater than 1.5 times $0.9F_y S$)?

4. What is the effective net area?

5. What is a leaning column?

6. What is weld shrinkage?

7. What is pretensioned, pre-loaded, or fully tensioned? A number of other terms are also used to connote a joint with bolts that have been installed in such a way as to induce a tension in the bolt that is equal to 70 percent of the minimum specified tensile strength. However, take no credit if you said slip critical. A slip-critical joint has pretensioned bolts, but also requires that the faying surfaces be prepared to achieve a minimum frictional coefficient.

8. What is an electric-arc furnace?

9. What is SENRAC (the Steel Erection Negotiated Rulemaking Advisory Committee)?

10. What is http://www.aisc.org?

BONUS CHALLENGE:

Learn something new about steel design or construction at work today?

Put it in the form of a question and submit it to:

Steel Quiz
c/o Charlie Carter
Modern Steel Construction
One East Wacker Dr.
Suite 3100
Chicago, IL 60601-2001

Submitted questions used in future issues will be credited to their sources.
STEEL QUIZ

STEEL QUIZ, A MONTHLY FEATURE IN MODERN STEEL CONSTRUCTION, allows you to test your knowledge of steel design and construction. Unless otherwise noted, all answers can be found in the LRFD Manual of Steel Construction.

Send Steel Quiz Questions & Answers to Charlie Carter, AISC, One East Wacker Dr., Suite 3100, Chicago, IL 60601-2001; fax: 312/670-5403.

To receive a copy of the 1997 AISC Publications List, please call 800/644-2400 or fax 312/670-5403.

JEOPARDY!
STEEL QUIZ ANSWERS:

As a slight change of pace, this month’s Steel Quiz is given in Jeopardy! style; remember to phrase your answers as questions.

1. This term denotes a sawn, milled or ground surface with an ANSI roughness height value not exceeding 500.

2. A cross-section that has compression elements that are subject to local buckling in the elastic range is called this.

3. A beam bent about its weak axis or a compact braced beam bent about its strong axis has this design flexural strength in LRFD.

4. Fracture is checked for a tension member on this area.

5. A column that is pinned at its top and bottom and does not contribute to the strength nor the stability of the frame is known as this.

6. In a welded joint, this is a source of residual stress.

7. This term describes a bolted joint with bolts that have been installed using the turn-of-nut, calibrated wrench, alternative-design-fastener or direct-tension-indicator method.

8. In current U.S. steel-making practice, a heat of steel is most commonly melted from scrap in this.

9. This acronym identifies the OSHA-sponsored group that has proposed a revision to OSHA regulations that cover steel erection.

10. AISC’s web page can be found at this address.