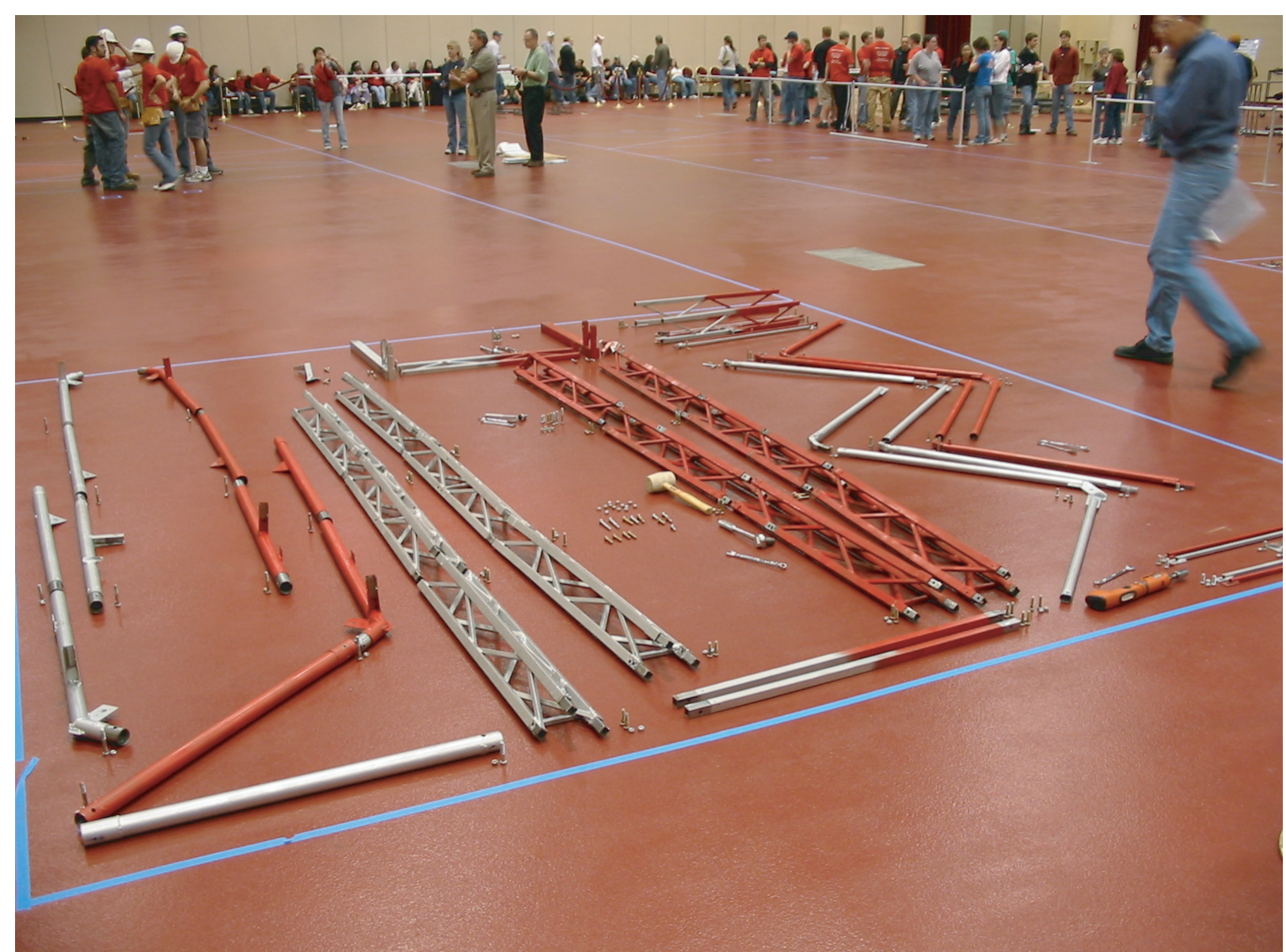


# ILLINOIS INSTITUTE OF TECHNOLOGY ASCE STEEL BRIDGE COMPETITION AT UNIVERSITY OF WISCONSIN-MADISON



## 2006 ASCE/AISC Student Steel Bridge Competition Summary Score Sheet

Version Date: 3/5/06

Competition: Great Lakes Regional Conference  
Location: Madison WI  
Date: 29-Apr-2006

Load Location Determination:  
(See Section 7.4 of Rules)

S1 = 4      LC = 116 inches from end of deck support as shown in Detail A/Exhibit 2 of the rules  
S2 = 4      LR = 184 inches from end of deck support as shown in Detail A/Exhibit 2 of the rules

| Chapter                                    | DQ     | Construction Speed |      | Lightness |      | Aesthetics |      | Stiffness   |      | Economy        |      | Efficiency      |      | Overall                         |      |
|--|--------|--------------------|------|-----------|------|------------|------|-------------|------|----------------|------|-----------------|------|---------------------------------|------|
|  |        | Time               | Rank | Weight    | Rank | Score      | Rank | Agg D       | Rank | C <sub>e</sub> | Rank | C <sub>e</sub>  | Rank | C <sub>e</sub> + C <sub>s</sub> | Rank |
| Bradley University                         | None   | 58.7               | 7    | 1582      | 5    | 46         | 5    | 60.00000946 | 5    | \$17,610,000   | 8    | \$1,898,400,000 | 6    | \$1,916,010,000                 | 6    |
| University of Illinois at Chicago          | None   | 24.55              | 3    | 798.5     | 2    | 41         | 1    | 2.44800041  | 2    | \$7,365,000    | 3    | \$39,094,560    | 2    | \$46,459,560                    | 2    |
| University of Illinois at Urbana-Champaign | None   | 46.1               | 4    | 1595      | 6    | 48         | 8    | 60.00000048 | 8    | \$13,830,000   | 5    | \$1,914,000,000 | 7    | \$1,927,830,000                 | 7    |
| Illinois Institute of Technology           | None   | 79.125             | 8    | 916.5     | 3    | 43         | 3    | 60.00000043 | 4    | \$15,825,000   | 6    | \$1,099,800,000 | 5    | \$1,115,625,000                 | 5    |
| Marquette University                       | None   | 22.7833            | 2    | 997       | 4    | 44         | 4    | 2.57600044  | 3    | \$5,695,833    | 2    | \$51,365,440    | 3    | \$57,061,273                    | 3    |
| Milwaukee School of Engineering            | 11.5.e | 9999.99            | 9    | 9999      | 9    | 9999       | 9    | 9999.9901   | 9    | \$999,999,999  | 9    | \$999,999,999   | 4    | \$999,999,999                   | 4    |
| Purdue University at West Lafayette        | None   | 51.7583            | 5    | 1807.7    | 7    | 46         | 5    | 60.00000046 | 5    | \$12,939,583   | 4    | \$2,169,240,000 | 8    | \$2,182,179,583                 | 8    |
| University of Wisconsin-Madison            | None   | 5.88667            | 1    | 303.5     | 1    | 42         | 2    | 0.49200042  | 1    | \$1,466,667    | 1    | \$2,986,440     | 1    | \$4,453,107                     | 1    |
| University of Wisconsin-Milwaukee          | None   | 58.6833            | 6    | 1936.5    | 8    | 47         | 7    | 60.00000047 | 7    | \$17,605,000   | 7    | \$2,323,800,000 | 9    | \$2,341,405,000                 | 9    |

Note that the aesthetics score is included above by taking each actual score and adding (aesthetics score)/10000000 to it. This action does not significantly alter the final scores but makes sufficient difference for the ranking function to break all ties.