

THE GRAND TRUSS CONTEST

Among Engineering Schools in Japan and The US 2009

April 17 (USA), April 18 (JAPAN)



Nagoya Institute of Technology, Nagoya University, Yokohama National University, Kyushu Sangyo University, Colorado State, University of Minnesota, Purdue University

1st Prize: 50,000¥ (~\$550)

2nd Prize: 30,000¥ (~\$330)

3rd Prize: 20,000¥ (~\$220)

Sponsored by Yahagi Construction Co., Ltd.



RULES

1. Prizes are going to be awarded to the builders of the three trusses carrying the highest loads.

2. The truss shall be placed on three tables of the same height located as shown in the plan view in Figure 1).

3. The highest point of the truss shall be located above point x (Figure 1). The load shall be suspended from that highest point with a single string and for at least 10 seconds.

4. The truss is to be made using one piece of cypress wood with dimensions not exceeding 900 mm x 5mm x 3mm and two additional pieces of cypress wood with dimensions not exceeding 900mm x 3mm x 3mm. You may cut the pieces of wood into smaller segments.

5. No adhesives or fasteners of any kind are to be used. Any type of string may be used to connect wood elements to one another and to serve as tensile elements.

6. The winning teams are going to be asked to explain how they conceived and built their trusses.

7. Each university may present up to 5 teams (with one truss per team). Each team shall be required to test its truss before the contest to make sure it can sustain at least 40N.

