INTERNATIONAL BRIDGE COMPETITION 2018

Among Engineering Schools in the US, Chile, Colombia, Peru, Mexico, Turkey, and Japan

1st Prize: Gold Medal & ¥50,000
2nd Prize: Silver Medal & ¥30,000
3rd Prize: Bronze Medal & ¥20,000

Sponsored by
Yahagi Construction Co., Ltd.

Dec 7th (Friday)
USA
3:00 PM PST / 4:00 PM MST
5:00 PM CST / 6:00 PM EST
Chile 8:00 PM CLST
Colombia/Peru 6:00 PM
Mexico 5:00 PM
Dec 8th (Saturday)
Turkey 2:00 AM
Japan 8:00 AM

Purdue University	Universidad Panamericana	Yokohama National University
University of Minnesota	Universidad Nacional de Colombia	Izmir Institute of Technology
Rose-Hulman Institute of Technology	Pontificia Universidad Catolica del Peru	Nagoya Institute of Technology
University of Illinois	Universidad de los Andes (Uniandes)	Tohoku University
University of California-San Diego	Universidad de los Andes (UANDES)	Kyushu Sangyo University
University of Nebraska – Lincoln		

Rules

1) Each school shall compete with only one bridge.
2) The bridge shall be constructed with any type of vegetable-derived material and any type of glue. Paper, cardboard, paper string, cotton, twine, painters, packing or masking tape, etc. can be used as long as it can be shown the material was derived from pulp, cellulose or wood *and* that it does not incorporate synthetic or mineral fibers. Wood and bamboo themselves are *not* allowed.
3) The weight of the bridge shall not exceed 100 g.
4) The bridge shall span between two smooth tables set 80 cm apart. The difference in elevation between the tables shall be 40 cm. Before loading, all parts of the bridge shall be above the diagonal from the edge of one table to the edge of the other (see Fig. 1).
5) The bridge supports shall be in contact only with the tops of the tables. Any device to prevent slipping of the supports is prohibited.
6) The load shall be placed at *midspan* of the bridge using a series of discrete weights hanging from a loading mechanism. The loading mechanism shall consist of a string and a hook or similar. The contact width of the loading mechanism may not exceed 2 cm.
7) The load shall be applied in a series of discrete increments. The load increment shall not be less than 0.5 kgf. Before moving to the next increment, the bridge shall resist the applied load for 10 seconds without collapsing. Each participant shall display the load increment applied and the cumulative load. The weight of the loading mechanism counts as part of the applied load and not as part of the weight of the bridge.
8) The team's score shall be the maximum load applied before the load that caused collapse (e.g., if the bridge holds 3 kgf but collapses at 4 kgf, the score is 3 kgf).

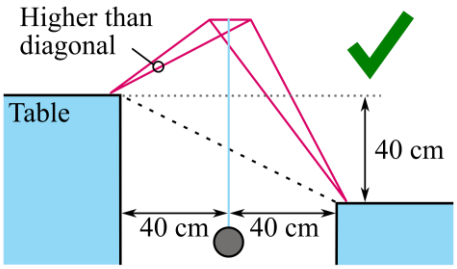

Figure 1. Acceptable bridge.

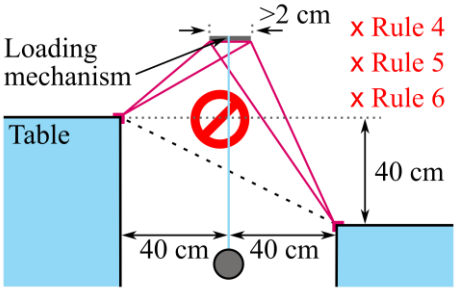

Figure 2. Unacceptable bridge.