

# 2009 NATIONAL TIMBER BRIDGE DESIGN COMPETITION

## Summary of Results

To view individual entries, go to <http://www.msacd.org/b-result09.htm> and click on team name.

School/Team	Net Bridge Deflection <sup>1</sup> mm	Net Deck Deflection <sup>2</sup> (percent of allowable)	Total Bridge Weight kg	Percent Non-Wood % <sup>3</sup>	Best Overall Design	Best Support Structure	Best Deck	Most Practical Design	Most Aesthetic Design	Most Innovative Design	Total Awards <sup>4</sup> \$
Washington SU ASCE	1.70	12.8	707	23.0	7	7	8	7		10	
Oregon SU-Orange Team ASCE-FPS	2.13	41.1	322	4.52	2	1	6	5		5	\$850
San Francisco SU-Truss ASCE	4.14	57.3	493	13.5	10	10	10	2	3	12	\$300
Oregon SU-Black Team ASCE-FPS	5.99	83.4	490	8.24	11	9	12	6	6	10	
Ohio SU ASCE	6.50	50.4	897	13.0	11	10	11	4	1	8	\$300
Laval U FPS	7.51	90.7	435	13.5	12	12	13	8		12	
San Francisco SU-Arch ASCE	6.58	38.3	345	4.86	6	9	3	3		9	\$250
Cal Poly San Luis Obispo ASCE	1.45	29.3	637	5.54	3	2	7	5	5	4	\$600
Oklahoma SU-Truss ASCE	1.61	4.40	952	2.70	1	3	2	6	4	2	\$1,050
Oklahoma SU - I-Beam ASCE	5.41	15.4	635	4.50	8	1	4	11		6	
US Military Acad. ASCE	6.35	5.8	311	1.52	4	6	1	1		14	\$750
SD School of Mines & Tech ASCE	8.71	33.4	301	14.4	7	8	5	7	2	1	\$500
U of Texas at San Antonio ASCE	4.24	41.5	381	4.88	9	5	14	9		6	
U of Ark-Little Rock FPS	3.20	21.0	366	4.10	5	4	9	10		3	\$200
Clarkson U ASCE	10.1	DQ	1418	1.97	DQ	DQ	DQ	7	DQ	15	

This competition is open to all ASCE and FPS Student Chapters at universities and colleges across the U. S. and Canada. 2009 was the 17<sup>th</sup> year of this event.

<sup>1</sup> Maximum allowed = 9.5 mm

<sup>2</sup> Maximum allowable = 100% of deck span ÷ 100

<sup>3</sup> Maximum allowed = 25%

<sup>4</sup> Top three receive monetary awards.

DQ = Not eligible for performance award or Best Overall Design. Bridge did not meet all rules and performance criteria.

ASCE = American Society of Civil Engineers    FPS = Forest Products Society