# **Bridge Competition**

Your task in this project sounds pretty simple: you are going to build a bridge out of wood and glue. Your bridge will be evaluated on its "efficiency"—how much weight it can hold compared to its own weight. But before you just start gluing sticks together take a look at the other requirements for the bridge!

#### MATERIALS

Vernier data-collection interface (e.g., LabQuest or LabQuest Mini)
Vernier data-collection software (e.g., LabQuest app or Logger Pro)
computer (only if using Logger Pro)
Vernier Structures and Materials Tester (VSMT)
wood (as supplied by the instructor)
other materials (as supplied by the instructor)

#### GENERAL CONSIDERATIONS

First of all, don't underestimate the effort required to build a quality bridge. There are a lot of factors you might consider as you begin thinking about design and construction.

Adhesives: What species of wood are you using? The type of wood will greatly affect what type of adhesive works best with the wood. Ideally, your glued joints will be stronger than the wood they hold so that, ultimately, the wood fails. How much glue should you use? Do you need to prepare the wood in some way prior to applying the glue? This may include wetting the surface or sanding the wood. You may benefit by practicing gluing.

Joints: An investigation of the types of joints used to join two pieces of wood is worthwhile. When is a butt joint preferable to a lap joint and why? Is there value in using gussets or pins? Does it matter whether the pieces of wood are in tension or compression?

Trusses: The bridges you typically make with wood are some variation of truss bridges. What makes a strong truss? Is there an optimum angle? Do they fail in a predictable way? Where is the load going to be? Which wood members are going to be under the most significant forces? Which parts are in compression and which ones are in tension?

Construction: Building a small wooden bridge well takes skill. This comes through practice. Note that symmetry of a bridge is important and that tying the two sides together is equally important as building a good truss system on one side. If you have the time, you will benefit from building and testing a design in order to improve both the design and construction.

#### BRIDGE DESIGN REQUIREMENTS

The following bridge competition rules are modified from the Illinois Institute of Technology's International Bridge Competition rules from 2016. For more information, see http://bridgecontest.phys.iit.edu/public/international/index

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**Wolfgang Guggemos** 

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