

Construct a UAF AGC/ASCE Ice Structure

Build and win \$500 to \$700.

Completion: 11:59 pm February 18, 2011

Where: Circle of Flags on the UAF campus.

Team: The construction team must be UAF students. There must be a minimum of 4 team members and at least one shall be a freshman or sophomore.

Payment: If the construction is completed on time, the team will be paid \$500. However, this project has liquated damages. This means if you do not have it completed on time, you can lose up to \$50 per day but no more than \$250. For example, if you finish 5 days late or later you can still earn \$250. However, no payment will be due if the permit is not in place, no materials are purchased and the construction is never started. Now consider this, if you finish early, you can earn an extra \$50 per day not to exceed \$700. Proof shall be provided as the completion time and date. The AGC student chapter will make payment at the engineering banquet during engineer's week provided construction is finished.

Information: The objective is for a construction team to build an ice structure that will be on display during "Engineers Week"; a structure that will likely gain national attention for the UAF campus through an AGC or ASCE magazine article. The constructed structure to be built is to be the one that was designed by the students who won the AGC/ASCE design competition held on December 1, 2011. The winning design was submitted by Andy Chamberlain. The construction shall address this design. This flyer will be available on the CEM web site.

Only one structure will be built; i.e. only one team will be selected to build this structure. Team selection will occur on December 8, 2011 by Fairbanks AGC representative(s). Each proposing team will make a 10 minute presentation to AGC at 1pm on December 8th at a location to be announced. The presentation will be followed by a 10 minute interview of the team. At 5:00 pm on December 8th, the winning team will be announced by the AGC student chapter.

Rules: All submittals shall be provided to Dr. Hulsey; AGC Faculty Advisor.

1. During the 1st two weeks of the award, the construction team shall provide a construction plan and construction schedule to Dr. Hulsey for review and acceptance.
2. Prior to construction, the construction team shall provide a material list. Money for construction materials and miscellaneous items will be provided by AGC funds. If special equipment is needed, the AGC student chapter will assist the construction team in getting a contractor or the University to provide the needed items.
3. Prior to construction, a permit must be submitted and accepted to the University. Dr. Hulsey will work with the team during the permitting process and will submit the paper work to University Environmental Safety. If scaffolding is needed or other special items, safety training will be required and this will be provided by the University at no expense to the team.
4. Prior to construction, shop drawings shall be submitted for review and approval.
5. The structure shall include lights so that it can be illuminated at night. There are only provisions for one 115V electric cord in the utilidor at the Circle of Flags site.
6. Weather will not be considered an excuse for scheduling issues or construction delays.
7. In order to get paid, the team shall submit an invoice and proof of completion. These shall consist of:
 - a. A two to three page article combined with the article written in MLA format for the design competition will be submitted to AGC, ASCE, or ASEE for publication.
 - b. Digital pictures of your construction progress.
 - c. Proof of the time and date the structure was completed.