

Project 2: UI-Arena/IFPC Competition

Arch 353, Arm Priest + Manrique Fall 2017

The Structure

"The principle of structure has moved in a curious way over this century [20th] from being "structural honesty" to "expression of structure" and finally to "structural expressionism." In my opinion, it is a potent and lasting principle and I would never want to get very far away from it. Here, just as in the principle of function, the degree to which structure becomes expressive depends to a large extent on the problem. The expression of structure is not an end in itself, it is only when structure can contribute to the total and to the other principles that it becomes important. The Yale Hockey Ring and the TWA terminal are examples of this."

- **Eero Saarinen**

IFPC Competition (Idaho Forest Products Commission Awards Program)

The studio is sponsored by the Idaho Forest Products Commission (IFPC), and includes a design competition and several sponsored events and activities, including a tour of the Idaho Forest Group Mill in Lewiston, a required field trip to the University of Idaho experimental forest, and the awards luncheon. The purpose of the IFPC awards program is to encourage, recognize and support the creative and innovative use of Idaho wood in architectural design as outlined in the goals below:

- To provide hands-on opportunities for Idaho architects and University of Idaho architecture students to learn about Idaho forests, sustainable forest management, wood products and manufacturing.
- To foster learning experiences about the structural, energy efficiency (life cycle analysis) and environmental benefits of wood.
- To recognize excellence in architectural design using Idaho wood to both professional Idaho architects and University of Idaho architecture students.

The University of Idaho Arena

The University of Idaho has selected both an architectural design firm and a construction management firm for the first stage of the design of a new UI Arena. This stage includes programming, planning and design of a proposed multi-event and courts sports facility, to be known as the Idaho Arena¹. This new facility is to be located adjacent to the ASUI Kibbie Activity Center on the main campus of the University of Idaho, Moscow, Idaho. "The university envisions that this new facility will make innovative use of wood products and materials, to potentially include mass timber construction techniques."²

Project

In this project students are asked to conceptualize the future needs and aspirations for the new Arena and explore the best use of Idaho wood for the diverse activities it provides. We will use the program statement provided by the University, but you are also encouraged to think critically and creatively as you consider elements that might enhance the development of the spaces and site.

Learning Outcomes

As a result of the work on this project, each student should demonstrate:

1. the ability to develop a project that includes a portion of unobstructed space requiring an expressive structure in wood.
2. an understanding of the Arena, a multi-event court sports venue, as a building type that creates a lively and community active facility aiming to "be a showpiece for UI's student-athletes, tell the story of Idaho's heritage and provide a unique gathering place for generations of Vandals to come."³
3. the ability to apply basic organizational, spatial, structural and constructional principles to the conception and development of an Arena project, and discover its poetic potential.
4. the ability to select, configure and detail wood components and assemblies to support and express the Arena design concept.
5. the ability to engage the natural systems and processes and historical and cultural aspects of the site in the project design.
6. an understanding of universal design and accessibility requirements, and regulations for a public building and site of this type.

¹ Arena: A building for sports and other forms of entertainment that has a large central area surrounded by seats (Merriam-Webster).

² From "Request for Qualifications for Architectural Services: Idaho Arena", University of Idaho Facilities Office, March 13 2017.

³ From "Idaho Arena: Our Platform for Success" in <https://www.uidaho.edu/giving/athletics/idaho-arena/arena-story> accessed in October 9 2017.

Site

The site is located adjacent to the ASUI Kibbie Activity Center on the main campus of the University of Idaho in Moscow, Idaho. Additional information will be provided in class and during our field trip.

Building Program

The primary components of the program for the UI Arena are listed below. There is some room for interpretation as indicated above. A detailed program will be provided.

HEIGHT	Lower than the ASUI Kibbie "Dome" (144 ft)			
AREA	Maximum	70,000 sq ft		
ARENA AREA (Performance and event space)				
	Performance court (varsity basketball and volleyball) and seating (4,000 spectators)			
	Practice court facility			
	Conference facilities			
SUPPORT AREAS				
	Concourses (open spaces or hall)			
	Concession spaces (food service only)			
	Offices and special rooms			
	Restrooms			
	Locker rooms			
	Storage Areas			
	Custodial and facility support areas			
	Loading dock			
	IT and control booth			

Competition Requirements

Two (2) 24 x 36 boards oriented vertically. Building models as specified in final submission guidelines. To maintain anonymity, students will use the same number used for the ICMA competition on the boards submitted for this competition. Name & class information will be on the back of each board. LATE PROJECTS ARE NOT ELIGIBLE FOR THE COMPETITION, but must be submitted before critiques.

Studio Submission Requirements

The submission for the competition deadline includes two (2) boards described above and the models. An *additional board* is required for the final reviews. This will provide additional information including design process, additional diagrams site and precedent analysis. Additional detailed information will be provided about final requirements, but final boards will include:

- Design process (parti and process diagrams; site and precedent analyses)
- Site Plan, including a portion of the street and river
- Building Floor Plans, Elevations & Sections
- Wall Section & Details of wood components
- 3D Drawings/ Renderings (Perspectives; Isometrics)
- Building physical models (project in site; structure/construction)

Judging will be conducted by an invited jury and will take place on Monday December 4th. Awards will be made at the IFPC Luncheon the same day.

Schedule

October 16	Kick-off lecture; Project Introduction; Site visit.
October 18	2:00 pm Lewiston lumber mill visit
October 20	12:30 pm IFPC Forest Tour (UI Experimental Forest)
October 27	Pin-up with Advisory Council
November 6, 8	Mid reviews
November 20-24	Fall Break
December 1	2:30 pm Final submission (physical and digital)
December 4	IFPC Awards Luncheon (time TBA)
December 5-8	Final reviews (date & time TBA)