GLASS & METAL ALLIANCE

2018 ARCHITECTURAL GLASS STUDENT DESIGN COMPETITION

Second Annual Challenge

By: Amanda Gibney Weko

SPOTLIGHT

2018 STUDENT WINNERS

First Place

Enya Barquia | Library Learning Rooms

Second Place

Hutten Moyer | Cube Study Pod

Third Place (tie)

Danielle Robertson | Carved From History

Solomon Newman | Printpod: A 3D Printed Learning Pod

Pictured left to right: Enya Barquia, Danielle Robertson, Solomon Newman, and Hutten Moyer

2ND ANNUAL COMPETITION

The Second Annual Architectural Glass Student Design Competition took place in January. Third-year Jefferson University architecture students participated as part of required coursework in the D6 Tectonic Studio in which they explore structure, enclosure, and materiality.

DESIGN CHALLENGE

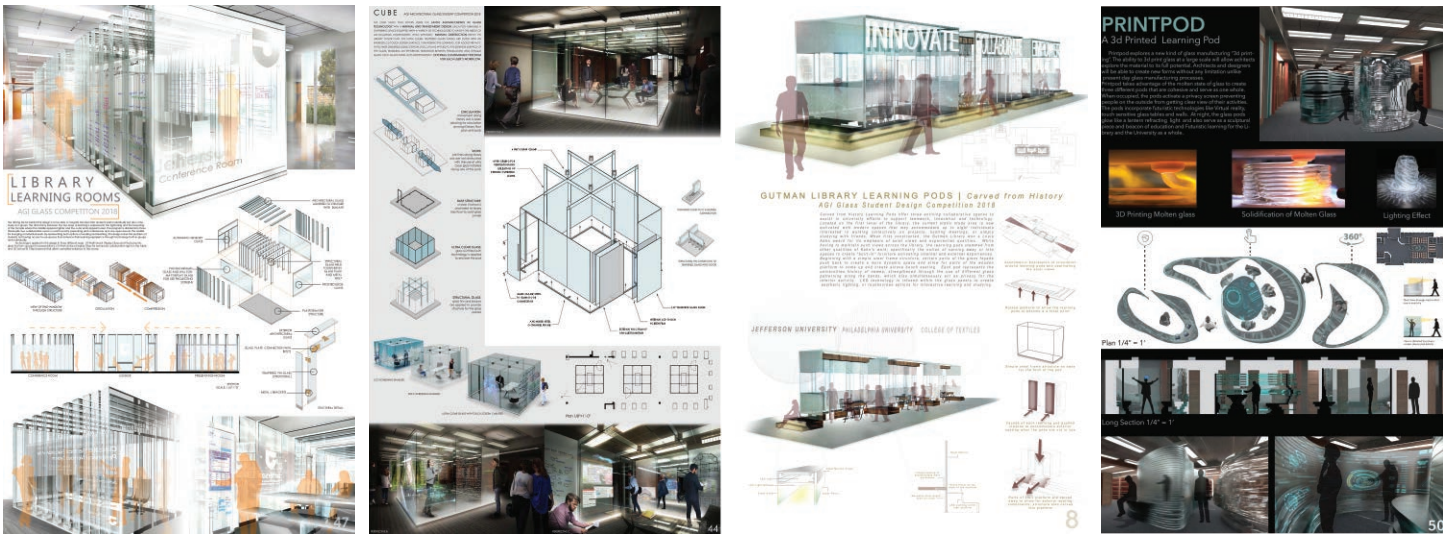
Students were charged with creating mostly transparent glass-enclosed collaborative learning spaces for installation in Jefferson's Gutman Library. Design of the learning pods fell at the intersection of architecture and interior design; competitors were challenged to explore the qualities of glass, from color, transparency, fritting, and films, to new technologies such as photochromic glass.

Students were encouraged to look to the future, beyond current best practices of what appears in a collaborative space, to envision ideas for technologically linked team meeting spaces. Integrated technology (at a minimum, flat screen or other shared viewing technology) was a mandated part of the design solution. Learning pods were required to be designed for prefabrication. They could be freestanding or affixed to library walls or ceilings. Each pod needed to accommodate up to eight people. Final presentation materials included detailed drawings, a model, and a design brief.

JUDGING

On Friday, 26 January, a jury of design and glazing professionals evaluated the proposals and awarded four winners based on the use of glass, glazing systems, and aluminum framing; structural integrity; materiality; successful response to the future of collaborative space, library context, and nexus learning culture of Jefferson; and appropriate investigation and integration of technology.

The jury included Joseph Bausano, Associate with architecture firm Foster + Partners; Terry Webb, Principal of member glazing contractor Eureka Metal & Glass Services; Ron Kudla, President of member glazing contractor Advanced Metal & Glass; and Matt Cleary, Territory Manager for SageGlass®, an advanced dynamic glass product of Saint-Gobain.



From left: presentation boards by Enya Barquia, Hutten Moyer, Danielle Robertson, and Solomon Newman

"What was shown by the students was exceptional based on only two weeks to produce," said Bausano. "I think the body of work was very attractive in terms of graphic representation, and there were a number of proposals that aimed to push the boundaries of the material (glass) in terms of fabrication and installation. My hat's off to the students and professors who assisted."

"During conversation with the student designers, I was impressed with all of the facets of the pods they had contemplated during their design efforts," said Webb. "I was most impressed by the students' imagination regarding the use of glass to create the living space they deemed most beneficial within the constraints of the existing library."

WINNERS

Enya Barquia took first place and earned a prize of $500. Hutten Moyer took second place and $400. Danielle Robertson and Solomon Newman tied for third place, each winning $300. Following are portions of each winner's design abstract:

ENYA BARQUIA | LIBRARY LEARNING ROOMS

The dichotomy between the two ways of learning is expressed in the tightening and the loosening of the facade where the middle appears tighter and the outer ends appear looser. The program is divided into three thresholds: two collaborative rooms on each end for presenting and conferences and one open area in the middle for lounging or individual work. Technology is applied to this design in three different ways: Wall Format Display Glass and Photochromic glass that turn opaque for presentations, Work Surface Display Glass for enhanced collaboration on the table, and School ID Chip Scanners that allow controlled entrance to the rooms.

HUTTEN MOYER | CUBE STUDY POD

Ultra-clear, tempered glass panels are suited with an interior LCD touch screen surface for interactive learning. For added privacy, a polymer dispersed liquid crystal (PDLC) film is applied to the exterior surface of the glass, enabling an effortless transition between translucent and opaque glass. Each glass panel acts independently, offering customizable freedom for each user's workflow.

DANIELLE ROBERTSON | CARVED FROM HISTORY

Each pod represents the university's history of names, strengthened through the use of different glass patterning along the bands, which also simultaneously act as privacy for the interior activity. LED technology is infused within the glass panels to create aesthetic lighting, or touchscreen options for interactive learning and studying.

SOLOMON NEWMAN | PRINTPOD: 3D PRINTED LEARNING POD

Printpod explores a new kind of glass manufacturing: 3D printing. Printpod takes advantage of the molten state of glass to create three different pods that are cohesive and serve as one whole. When occupied, the pods activate a privacy screen, preventing people on the outside from getting clear view of their activities. The pods incorporate futuristic technologies like virtual-reality, touch sensitive glass tables and walls. At night, the glass pods glow like a lantern refracting light and also serve as a sculptural piece and beacon of education and futuristic learning for the Library and the University as a whole.