

Alexis Gregory

Record Title - Do Not Delete : Alexis Gregory

Linked Preliminary Proposal - Do Not Delete : Alexis Gregory

Please share an overview of activities during the previous academic year. : The students participated in the ACSA 2022 Habitat: Design Competition – Climate Positive Concrete Housing and developed a Habitat for Humanity house that can be repeated on an existing site owned by the Starkville Area Habitat for Humanity. The studio was composed of 16 teams with 2 Building Construction Science students and 2-3 Architecture students. As part of the PCI Foundation Studio each team developed a design for a three-bedroom house meeting all the Habitat for Humanity requirements using precast concrete as the primary architectural cladding material. Each team developed three different house designs and three different construction systems for the house exterior walls as part of Schematic Design, then narrowed down to one house design and one construction system for the final presentation. The exterior wall designs were to take into account durability, tornado resistance, structural loading, thermal performance, cost, assembly by non-professional labor, time, and aesthetics using precast concrete. The students met twice during the semester with precast concrete industry partners for feedback and advice for the design of the precast concrete architectural cladding. Those partners included PCI Gulf South, Jackson Precast, and Tindall Precast. The students also helped construct a Habitat for Humanity house using their current designs and met with the Construction Supervisor, John Breazeale, to learn more about their clients. Each team also presented to a representative of the Starkville Area Habitat for Humanity and several precast concrete industry partners for the Schematic Design presentations. The final presentations were to the client and precast industry partners as well as faculty from other PCI Foundation studios. The students also submitted their designs to the ACSA Climate Positive Concrete Housing design competition.

Can you give a few examples of students learning outcomes? : • Students will learn the basic factors associated with effective collaboration • Students will learn the importance of individual versus group work in a collaborative environment • Students will build an understanding of the relationship with and values held by their building industry partners • Students will learn construction budget estimating and scheduling • Students will learn the importance of Building Information Modeling and Integrated Practice as a means to foster the above listed goals and objectives

Please upload photos of students engaged in projects, tours, or other activities. : E7446564-1E63-46E3-AEE4-19C7CB23358A.jpg

Please share a link to any student work you would like to share. : <https://www.caad.msstate.edu/news/2022/04/collaborative-studio-selects-pci-foundation-awards>

Can you share any opportunities that working with your local partner helped the students achieve something that would otherwise have not been possible? : • Students learned how to detail and install precast concrete for Habitat for Humanity houses they designed which they would not have been able to figure out on their own. • All of the local partners including PCI Gulf South, Jackson Precast, and Tindall Precast were very helpful in working with the students to research and design connections and the process to create and install their precast concrete designs.

Is there anything you learned this year that you would like to share with other professors? : • Utilize the industry partners as they have a lot of knowledge to share with the students and the students need to learn to listen to them and respect their knowledge as future architects. • Make sure to schedule the industry partners early because they get busy and their schedules fill up fast. Be flexible in case the industry partners have to

cancel at the last minute due to project issues or deadlines. • Work with both online meetings and in-person meetings to engage the industry partners and to fit their schedules.

Is there anything that the PCI Foundation can do in the future to be of greater service to you during the grant? : Provide additional industry partners who have areas of expertise in areas other than those officially part of the grant. For example, we had the students design low-income housing and the industry partners did not have experience with that so they had to make some educated guesses and struggled to help the students with some questions they had. So being able to add precast industry partners with knowledge on different project types would help the students learn more.

Please upload a list of any community partners, precast partners and other people who worked with your students during the year. Include their names and company. : 2021-2022 Partners.docx

Did you attend the PCI Convention? : No

Did you attend the PCI Committee Days? : No

Did you attend the PCI Foundation Professors Seminar? : Yes

Do you have a student assessment of your program that you can share? :

student assessment upload :

Is there anything else you would like to add? :

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