

Douglas Noble

Record Title - Do Not Delete : Douglas Noble

Linked Preliminary Proposal - Do Not Delete : Douglas Noble

Please share an overview of activities during the previous academic year. : The School of Architecture at the University of Southern California (USC) is completing the installation of the CARAPACE PAVILION in Joshua Tree National Park on June 6, 2022. This report is being written on June 2, 2022, just four days prior to the final installation. During the 2021-2022 academic year, USC did not have a precast studio, but students and alumni remained involved in the final steps of the Carapace Pavilion. During the academic year, the Carapace UHPC panels were assembled in the Clark Pacific precast plant in Fontana, California. We sustained a long delay while waiting for the Rangers at the National Park to have staff available to help manage the installation day, including traffic management. Other activities included a continuing emphasis on precast in the materials courses for undergraduate and graduate architecture majors, a set of three graduate Masters thesis projects involving precast, and involvement in the PCI convention.

Can you give a few examples of students learning outcomes? : Three thesis projects included: NET ZERO CARBON CONCRETE FACADES: A Catalogue on Low Carbon Concrete Strategies Towards Achieving Net Zero STREAMLINING PRECAST BACK-FRAME DESIGN: Automated Design Using Revit Plugin POST-TENSIONING A GFRC ASSEMBLY: An Experiment Using Glass Fiber Reinforced Concrete Panels

Please upload photos of students engaged in projects, tours, or other activities. : IMG_2624.jpg

Please share a link to any student work you would like to share. :

Can you share any opportunities that working with your local partner helped the students achieve something that would otherwise have not been possible? : The three thesis projects required representatives from the local precast partner to serve on masters thesis committees. One of the projects actually required the precast partner to open their engineering processes to a student so that the student could try to craft an improved process. Our local precast partner helped two students fabricate small real projects for testing.

Is there anything you learned this year that you would like to share with other professors? :

Is there anything that the PCI Foundation can do in the future to be of greater service to you during the grant? :

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. : partnersv2.xlsx

Did you attend the PCI Convention? : Yes

Did you attend the PCI Committee Days? : No

Did you attend the PCI Foundation Professors Seminar? : No

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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