Clemson architecture students installed solar panels atop the roof of Indigo Pine during the 2015 Solar Decathlon hosted by the U.S. Department of Energy in Irvine, California. (Photo by U.S. DOE)
MESSAGE FROM THE CHAIR

It has been another exciting year campus and not just because of football! The Clemson Architectural Foundation (CAF) has awarded 130 scholarships. Our primary focus continues to be scholarship support, but the Foundation also provides incentives for excellence in sustainable architecture, design and research. Sponsors are given the opportunity to make awards in a variety of categories and recognize both students and faculty. The CAF has continued to grow and expand, supporting the School of Architecture in many different ways. The CAF’s mission is to support scholarship, excellence, and sustainable architecture and design. As a member of the CAF, you can help us continue this important work.

INDIGO PINE’S SUSTAINABLE LESSONS

This has been a year of notable accomplishments, most notably in the area of sustainability. The 2013 Solar Decathlon was remarkable for its innovation and entrepreneurship, placing sixth overall, second in the Architecture category, second in Communications, third in Marketing, second in Sustainability, first in Energy, and eighth in Design. The Indigo Pine team in Costa Mesa, California, has continued to build on the work they began last year and is completing the reconstruction over the summer by students, for students. The competition was great, but the teaching, learning and research of Indigo Pine did not stop with the end of the Solar Decathlon. The effects of the competition house (West, the competition house) has become IPD, its innovation and accomplishments, placing fifth in Engineering. From my own visit to the villa to work on maintenance and operational issues, I was impressed by the efforts and accomplishments!! They rocked it!

CAF PRESIDENT’S MESSAGE

The project team continues to review recognized as long past the DOE competition. In February, the Indigo Pine team received awards from the Council for Advancement and Support of Education (CASE) for their outstanding efforts and accomplishments!! They rocked it!

Thank you to all of the students, faculty, staff and, of course, donors who participated in this project.

CAF SPONSORS

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CAF SPONSORS

In addition, the CAF has continued to support the School of Architecture in many different ways. The CAF’s mission is to support scholarship, excellence, and sustainable architecture and design. As a member and chair of numerous NCARB committees and the organization’s highest honor. Ward is a member of the South Carolina Board of Architectural Examiners and serves as the president/president-elect, second vice president, treasurer, and secretary. As the director of AIA South Carolina, he has also served as a member of the National Architectural Accreditation Board (NAAB).

January 6

Classes begin

January 10

Art and Design Showcase

January 22

CAF Board meeting, Charleston

February 3

CAF “Curriculum Practice” Lecture Series: “Designing Environmental Systems”

February 22

ARCH 210: Architecture and the Environment, Utrecht, Netherlands

March 26

CAF “Curriculum Practice” Lecture Series: “Architectural Practice: Concept and Development”

March 28

3rd Annual CAF Student Design Competition: Final Review

April 28

Spring Break

May 15

2015 CAF Clemson, Columbia, South Carolina

May 18

School of Architecture seniors open studio

May 23

Clemson University architecture Volume VI, Number 1

Sponsored by the School of Architecture

The CAF University of Architecture

Today, 1 picture a day...

THOMAS WURZEL, FIA, ’73, ’77

As chair of the university’s committee on public service, Thomas Wurtzel, FIA, has been the guiding force for the development of some of the city of Dallas most significant projects, including the Convention Center expansion, Convention Center District Headquarters, Hotel and the Dallas Center for the Performing Arts. His collaborative leadership and ability to work with business, government, and institutions to create plans and programs, while addressing and satisfying all stakeholder needs, has united public and private sectors to create environments that have been recognized nationally for their functional, aesthetic and sustainable designs.

DENNIS WARD, FIA, NCARB ’79, ’81

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THE SCHOOL WELCOMED FIVE NEW LECTURERS IN THE SPRING 2016 SEMESTER.

SCHEIN TERN (ARCH 8420 AND 8620)
- Ph.D. in architecture and design research, Cornell
- Research areas: history, theory and criticism, architecture and computing
- Graduate teaching assistant, current, Virginia Tech, VA

JENNIFER GOSSMELL, RA (ARCH 3200/1510 & 3701)
- B.Arch., Virginia Tech, 1990
- Registered architect
- Founding principal, General Architecture, August 2000 to present, Greenwich, South Carolina
- Faculty partnership coordinator, Sustainable Cities, Kent State University, Stark Campus
- Professor and chair, architecture program, Kent State University
- Professor with other offices in Greenville, South Carolina
- Professional services include General Design Review Board and USGBC committees

JOSEPH SCHOTT (ARCH 3200/1510 & 3701)
- B.Arch., University of Illinois at Chicago, 2011
- M.Arch., University of Georgia, 2013
- B.S. in business administration/marketing, March University, 1989
- Schiff LLC, Southport, Connecticut, 2002 to present
- Adjunct assistant professor, U of C School of Architecture, 2002–2007
- Adjunct assistant professor of architecture, Chicago, Chicago and New York, 1997–2005
- Maker-in-residence at multiple public libraries and schools

- M.Arch., University of Illinois at Chicago, 2003
- M.S. in urban studies, Northeastern University, 1999
- M.S. in urban studies, Iowa State University, 1999
- B.Arch., University of Georgia, 1997
- Professional services include Architecture + Mathematics committee service in Architecture

WILLY SCHINOIL, AIA, AIA
(MArch DESIGNED WITH GOSSMELL)
- M.Arch., Architecture in Health, Clemson University, 1996
- B.Arch., Interior Design, University of Georgia, 1993
- B.Arch., Architecture, Architecture + Mathematics, Greenville, South Carolina
- Senior in health care design leading position for WHI, KMD, SmithGroup and OBI
- Professional services include Chemistry in Architecture
- Founding chair of AIA South Atlantic Regional Architecture for Health Conference

Construction will begin in May 2016 on the Irvine Campus. Miguel Rodil, a former principal of the old Polk Fire Station in downtown Greenville, will oversee the renovation of the building into the new Fire Prevention Center and Museum. It opened its doors in March 2016.

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During the fall semester, Clemson architecture students and faculty led the completion and showcasing of the University's first Solar Decathlon house. The Solar Decathlon competition, sponsored by the U.S. Department of Energy, is held every two years, with this most recent event being located in Irvine, California. The competition challenges collegiate teams to design, build and operate solar-powered houses that are cost-effective, energy-efficient and appealing in design.

Externally, the Indigo Pine project aimed to creatively share concepts for net-zero-energy housing and compelling new construction methods — all while offering the warmth and comfort expected by the families who might call it "home." Internally, the Indigo Pine project brought together students and faculty from across the University to research new strategies for sustainable living. Additionally, the project was supported by over 100 outside sponsors through both in-kind and monetary donations.

The house is a combination of innovative systems designed to optimize energy performance and assembly efficiency — a daunting and large-scale project. Three of these systems included the following:

- The SMART (Smart Framing and Assembly) structural framing system, developed by students and faculty, leverages CNC-milling technology to cut plywood sheets according to digitally drawn files. The resulting components are then fit together using easy-to-follow assembly instructions. There are no nails used in this construction; instead, using safe-and-easy steel zip ties to reinforce its unique connections.
- Our innovative aluminum composite material (ACM) siding is CNC-cut and folded, riveted and screwed directly onto the sheathing of the home. The system is back-ventilated, and its pattern of folds eliminates the need for external furring.
- A low-tech CMU thermal mass foundation preconditions air underneath the home and passes the precooled or preheated (based on the season) air directly through the outdoor heat-exchanger, reducing the load to condition the house.

To best prepare and compete, a Fluid Campus studio was formed in Orange County for the duration of the semester. Professor-in-residence Dustin Albright, along with nine M.Arch. students, spent the time living in Newport Beach and working out of a warehouse in nearby Costa Mesa — a truly memorable experience. Additional assembly and disassembly crews joined the efforts for shorter stints in October. In the end, Team Clemson was the only competitor to assemble its house on-site from the ground up and without the assistance of outside contractors, validating the systems and solutions researched by our students and faculty.

Following the competition, Indigo Pine West (IPW) was disassembled and reassembled on site and shipped over to Florence, South Carolina. Indigo Pine Pee Dee (IPD) will be reconstructed from the components of IPW at the Pee Dee Research and Education Center. The house will serve as housing for agriculture students while also providing our faculty opportunities for long-term observation and collection of performance data.
FIRST YEAR

Fall 2015

The freshman class in architecture at Clemson spent the fall semester of 2015 developing their analytical skills, drawing abilities, and modeling techniques. The students began the semester by working on a figurative ground project in which they drew plan diagrams, learned about the axonomic drawing technique, and built simple models of their patterns. The students spent the second half of the semester working on an in-depth analysis of an elevation analysis. Students were assigned buildings on campus, and they studied the buildings and developed figurative and analytical models of the elevations.

SECOND YEAR

A collection of interactive viewing apparatus was designed by BRIAN ZHOU in the fall of 2015 for students in the fall 2015 semester with professors Bowers, Davis, Hudson, and Silance. These works are by Harrison Novak.

THIRD YEAR

The second-year undergraduates began their academic year with a brief orientation that included a project analysis of various buildings, including the order, size, and form of one city to another. The usual urban exercise in formal and organizing aspects of city identity and sense of place. Working with a range of various scales and media allowed the morphological pattern of the city to become apparent. The urban form project was created by Attica Jain designed this project.

FIRST YEAR

Students in their first year of the three-year M. Arch. — the M. Arch. — take an intense series of integrated courses. Design, communications, structure, and history courses in both semesters provide a rapid and intense immersion into the discipline. In the fall 2015 studio, for their final six-week project, under the direction of professors Laurens and Brandt, students were asked to design a pavilion for the South Carolina Botanical Garden. In the fall 2015 studio under the direction of professors Laurens and Brandt, students were asked to design a pavilion for the South Carolina Botanical Garden. The project began with a design for a pitless and natural environment. In the second half of the project, the concept was to scale-up to the welcome center and map house for the Botanical Garden. The project began with a design for a pitless and natural environment. The students worked on the design architecture with a connection on two different scales: one at a scale that only one or two people could inhabit and another to translate to the concept architecture that many people could inhabit. This drawing was made in Claire Wilkerson.

SECOND YEAR

Project 3: This rendering of a proposal to (RE)DESIGN DOWNTOWN CLEMSON was designed by James Gill. Laurence and Harding, students were asked to design a welcome center and map house for the Botanical Garden. The project began with a design for a pitless and natural environment. In the second half of the project, the concept was to scale-up to the welcome center and map house. The students worked on the design architecture with a connection on two different scales: one at a scale that only one person could inhabit and another to translate to the concept architecture that many people could inhabit. This drawing was made in Claire Wilkerson.

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ARCHITECTURE + HEALTH

The 2015 NCARB Grant: Best Practices in Ambulatory Care for Medically Underserved Populations

This project exposed a cohort of the Architecture + Health Master of Architecture students to the pressing real-world problem of access to primary health care for medically underserved populations and the challenges of designing settings that support the delivery of high-quality, cost-effective, culturally relevant health care for these populations in both small towns and urban communities. A series of design criteria, standards, and best practices was identified in a series of design guidelines. These guidelines were implemented in a multidisciplinary studio course, and the students interviewed the clinical and management staff to find out more about the existing clinical programs and the role of the individual departments and staff. Students then interviewed the clinical and management staff to find out more about the existing clinical programs and the role of the individual departments and staff.

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Students in two linked design studios and one architectural programming course then built from this work to develop a design proposal for a Community Based Primary Care Clinic in Charleston, South Carolina, and a Federally Qualified Health Center in the Upstate of South Carolina, working with faculty, facility staff and architect practitioners providing feedback. Students learned how to develop performance criteria, conduct case study/literature review, create a model program, develop design guidelines, and present comprehensive design proposals. The ultimate results of the work have been published as a guide for students and practitioners.

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Students in the fall semester Fluid Studio of Out Mills proposed designs for the Advanced Technology Education Center, a new laboratory building along Hartwell Lake designed to foster collaboration between workforce development offices and University student initiatives. The building is also designed to provide both indoor and outdoor tailgating spaces for University athletic events.

Christopher Sandefur (BA '16) explored the idea of centering the building on the lake and using the building as a connection between the faculty offices and the rest of the campus. A community gathering pond placed outside the building helps define the building’s presence before designing the building’s core above.

The goal for the Fall 2015 studio “Narratives in Transformation” explored the prosthetic spaces that make up part of the urban tissue of Barcelona. Joseph J. James, Clemson architecture undergraduate, in the studio of Miguel Roldán and Quim Rossell, proposed “The Design Factory Fabrication Lab.” The fabrication lab has two transition spaces. The first space is the interior of the building as an open area. This transitional zone is designed to be a studio space that functions as an outdoor laboratory. The second space is between la Eucarística’s public green spaces and the fabrication lab’s courtyard. The two spaces are designed to enhance the interaction between the programs they neighbor by improving circulation and functionality.

The Clemson Architecture Center in Barcelona (CAC.C), Spain, is part of a partnership with the Barcelona Architecture Center (BAC) in which Clemson students share a studio with students from Texas A&M and Roger Williams University and live in a centrally located hall. Students are immersed in Spanish architectural history, contemporary design, urban practices and culture.

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The first group of students took up residence at the Casa E. D’Alberti Building in Genoa on the Italy Studio in Genoa, Italy, in fall 1973. The program balances the studios experience with the study of Italian architectural history, contemporary design and urban practices. Students, like stalwarkes and work together with the School of Architecture and the City of Genoa.

In Genoa, the fall 2015 design studio, with professors George Schuler, Miguel Roldán and Quim Rossell, explored the theme of the Atlantic Charter, 70 years later, and the implications for urban design and development. In this environment the students met with Miguel Roldán and Quim Rossell, proposed “The Design Factory Fabrication Lab.” The fabrication lab has two transition spaces. The first space is the interior of the building as an open area. This transitional zone is designed to be a studio space that functions as an outdoor laboratory. The second space is between la Eucarística’s public green spaces and the fabrication lab’s courtyard. The two spaces are designed to enhance the interaction between the programs they neighbor by improving circulation and functionality.

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