DIRECTOR’S MESSAGE SUMMER 2020

I am honored to be appointed as the new Director of the School of Architecture. In my short time as Director, I have already learned about the supportive community at Clemson. When discussing my new appointment, most people comment on how difficult it must be to transition during uncertain times. In my experience, this is an institution is exposed during challenging times, and the values and priorities become apparent. What I have witnessed thus far, has given me confidence that we will continue a tradition of excellence in teaching, research and service. I have seen the faculty pivot their courses online and still maintain excellence in teaching and academic outcomes. I attended many final reviews and overheard how much the students appreciated the faculty for their efforts. I have seen the staff continue to provide excellent service to our school, and the students, despite having to find new ways of meeting and working. I have heard from many of you that I am joining a supportive community, and the notes and phone calls checking in on me during my transition has made this real for me. This dynamic is what makes the School of Architecture at Clemson so special.

The faculty, staff and alumni have prepared us for the challenges and opportunities that we will confront this year. The strength of the organization is also due to the leadership of my predecessor, Prof. Kate Schwennsen. In her decade as Director, the School of Architecture became a nationally ranked architecture program. She guided and developed programs in architecture, landscape architecture, historic preservation and resilient urban design. Most importantly, she served as a trusted advisor and mentor to many who worked and studied at Clemson. I am lucky to count myself among those whom she is now helping, and I am committed to building on her legacy of leadership.

In the coming academic year, we will face numerous challenges and opportunities. The disciplines represented in the School of Architecture are well-positioned to take on many pressing social, cultural and environmental issues. Not only will we ensure students are educated to confront these issues in their profession, but we will meet these challenges in our studios, classrooms, and places of work. The students at Clemson bolster my confidence in addressing these complex problems. Their mature vision of a more sustainable and inclusive world is achievable. Our mission is to position them to succeed.

Make Good Things,

Jim Stevens, AIA, Ph.D.

HERE’S WHAT YOU HAVE DONE AND CAN DO AS AN ALUMNUS OR FRIEND:

• Contribute to the CAF annually with unrestricted gifts.
• Establish an endowed supporting the aspect of the School of Architecture that is most important to you (e.g., scholarships, travel, study abroad, the Fluid Campus™).
• Become involved in the school as a mentor, studio critic or volunteer.
• Be active on one of the several boards supporting the school and related disciplines.
• Spread the word about the high-quality design and preservation education available at Clemson.

THE CHARLES E. DANIEL CENTER FOR BUILDING STUDIES AND URBAN RESEARCH IN GENOA, ITALY celebrates its 48th year this calendar year. The Charles E. Daniel Center for Building Studies and Urban Research in Genoa, Italy, a self-conceived laboratory for living and study that can accommodate up to 24 students per semester. It is a research and service facility for living and study that can accommodate up to 24 students per semester. We annually underwrite the CAF Lecture Series in Lee Hall and one of four Creativity Professorships in related disciplines.

WHAT WE DO • The Clemson Architectural Foundation (CAF) supports the students and faculty of the School of Architecture and related design disciplines in the College of Architecture, Arts and Humanities (CAAH).
• We fund student and faculty grant requests for research, awards, travel and advancements. We annually underwrite the CAF Lecture Series in Lee Hall and one of four Creativity Professorships in CAAH.
• The CAF owns and operates the Charles E. Daniel Center for Building Studies and Urban Research in Genoa, Italy, a self-conceived laboratory for living and study that can accommodate up to 24 students per semester.
• We support the Fluid Campus which includes Genoa, Barcelona and Charleston.

Finally, I have had the privilege to work with Kate Schwennsen while she has served as the Director of the School of Architecture for the past decade. Kate has elevated our program to new heights while maintaining an exceptional relationship with our students, faculty and alumni. It amazes me to walk through Lee Hall with Kate and see her interactions with students on such a personal level. She has been a leader, an educator, and most importantly an inspiration to all of us over the past 10 years. While it is difficult to see Kate move into a new role as a full-time professor, we are extremely excited to have Jim Stevens, join us as our new Director. I’ve thoroughly enjoyed getting to know Jim and am confident that under his leadership our School will continue to excel and be a design education leader both nationally and internationally. Welcome aboard, Jim!

Thank you to all of our current and previous donors, volunteers and trustees. I look forward to working with all of you as we continue to elevate our program by creating a safe, relevant and inclusive environment for design education.

Sincerely,

Robert Morgan
President, Clemson Architectural Foundation

President, Clemson Architectural Foundation
FACULTY/STAFF NEWS:

PROMOTION AND TENURE

Congratulations to the following faculty who were promoted and/or tenured: Associate Professor Dustin Alligood, Associate Professor David Franco, Associate Professor Hyunjung Chang, Senior Lecturer Henrique Housayek, and Senior Lecturer Ashley Jennings.

FACULTY NEWS:

American Society of Landscape Architects

The American Society of Landscape Architects (ASLA) has elevated Robert Hewitt, Associate Professor of Landscape Architecture, as a fellow for his exceptional contributions to the landscape architecture profession and society. Election into the ASLA Council of Fellows is among the highest honors the ASLA bestows on members.

American Society of Landscape Architects, Urban Design Professional Practice Network

Thomas Scharf, Professor of Landscape Architecture, was appointed Co-Director of the American Society of Landscape Architects Urban Design Professional Practice Network. In this capacity, Tom led an ASLA Healthier Communities webinar and helped develop the criteria for the new national ASLA Urban Design Awards. Tom has also facilitated various public art projects in the historical African-American Sterling Neighborhood in Greenville.

FACULTY/STAFF UPDATE

Sheila Price

Sheila Price joins the staff as communication coordinator for the School of Architecture and the Nieri Family Department of Construction Science and Management. She comes to Clemson from North Greenville University where she was the Social Media and Graphic Design Coordinator. She has over a decade of experience in marketing, social media communications and graphic design. Price has a Masters degree in Strategic Communication from Liberty University in Lynchburg, VA and a Bachelors degree in Print Media from North Greenville University in Tigerville, SC.

Clemson University Sustainability

Sustainability

In Memoriam

The School of Architecture was saddened by the passing of Professor Robert Albert Bruhns. 61, on Sept. 15, 2019. Robert attended Lakeside High School, Clemson University, and George Washington University. Robert was an architect and a teacher at heart. He taught for many years at the University in Tuskegee, AL and in 2003 began a career teaching in the school of architecture at Clemson University. Robert loved teaching, playing tennis, dancing, and drawing. He had many other interests as well, including model trains, literature, and the great yard sale find. Nothing better than an OTC acquisition! He loved the guitar and playing the harmonica. He is survived by his brother, Sally Olson (Chicago); nieces, Olivia and Catherine Foulkrod, and her beloved Class of 1995. He is also survived by his mother, Sally Olson of Gaston, S.C., assembles face shields for hospitals. He is survived by his sister, Georgia Chamberlain (John F. Foulkrod); nieces Olivia and Catherine Foulkrod, and her beloved Class of 1995. He is also survived by his mother, Sally Olson of Gaston, S.C., assembles face shields for hospitals. He is survived by his sister, Georgia Chamberlain (John F. Foulkrod); nieces Olivia and Catherine Foulkrod, and her beloved Class of 1995.

Robert Silance, Associate Professor Emeritus of Architecture Retires

Robert Silance joined the Clemson architecture faculty in 1973. In association with the University reaches back 20 years earlier. At Clemson, he earned a bachelor of arts in pre-architecture in 1973 and a Master of Architecture in 1981. In between, he earned a BFA with concentrations in design, photography and ceramics at Temple University in Philadelphia. Silance, a licensed architect and specialist in product and furniture design, taught a wide range of design courses, both required and electives. His work has appeared at the University’s Danby Center for Building Research and Urban Studies in Genoa, Italy, as well as at the Clemson Architecture Center in Charleston.

Robert Silance’s dedication to the School of Architecture is much appreciated,” Interim Dean Bossinger said. “He touched the lives of hundreds if not thousands of students and his work helped shape the world we live in. We wish Robert the very best as he enters a new phase in his life.

“Through Rob Silance’s long tenure, his breadth and depth of expertise and creative endeavors, from product design to photography to building code analysis to design, he has informed generations of Clemson architecture students,” said Kate Kowalski, the current director of the School of Architecture. “Additionally, he has been a consistent contributor to and caretaker of the school’s exceptional facilities, culture and history, from Lee Hall to the Villa. We will sorely miss his constant presence in Lee Hall but know that his influence on our people and places will endure.”

Presentation

Matt Powers and Sallie Hanbright-Beise presented their research, “A Study of Metacognitive Learning Strategies in Beginning Design Students.”

In Memoriam

The School of Architecture was saddened by the passing of Professor Emeritus of Landscape Architecture, Frances Chamberlain on July 2, 2020. She earned a BA from the University of Texas and an MLA from the University of Virginia. She helped launch Clemson’s Landscape Architecture program, and championed the South Carolina Botanical Gardens’ “Nature-Based Sculpture Program”.

Frances is preceded in death by husband, Marion F. Craig; parents Margaret and A. Flannery; brothers William W. Flannery, Ernest Coulthard, and his first wife, Martha Chamberlain; and sister, Louise B. Jimenez.

She is survived by sister Georgia Chamberlain (John F. Foulkrod); nieces Olivia and Catherine Foulkrod, and her beloved Class of 1995.

If you would like to honor her memory, stand up for what you believe is fair and true. Marvel at nature’s beauty. Contributions may be made to Frances Chamberlain Memorial Scholarship Fund clemson.edu/suappo, (864) 656-5896 or Clemson University, Annual Giving Office, 110 Daniel Drive, Clemson, SC 29631.

Cover Story: Behind the Front Lines

Arthur Southern, a 2020 Clemson graduate with a master’s in architecture from Gaston, S.C., assembles face shields produced with 3D printers in Lee Hall.
At the end of May 2020 I stepped down as the Director of this School of Architecture, confidently handing the reins to James Stevens, Ph.D, AIA. I came to Clemson’s School of Architecture in August 2010, a decade ago, as the school’s newly appointed Chair. This leadership transition provides an appropriate time to Look Back at some of the changes and experiences of this decade in the school’s history; to Look Ahead to new opportunities; and to Thank You. Clemson’s School of Architecture is in a privileged position, then and now, and it is due to the remarkable support and engagement of the school’s students, alumni, faculty staff and friends.
LOOKING BACK: SOME THINGS TO NOTE ABOUT THE LAST 10 YEARS

• The school’s facilities have been improved in every location: in Clemson with the completion of Lee III in January 2012 and the simultaneous renovations of Lee I and II; in Charleston with the move to and renovations of the Cigar Factory in 2016; in Genoa with continuous improvements to the Villa, including the most beautiful new roof ever; and in Barcelona with the BAC’s move to their beautiful storefront on Carrer Bru. Each of these buildings are “buildings that teach” in places with amazing lessons to learn.

• The school’s Fluid Campus™ is now trademarked and is clearly not just about immersive study in exceptional places, but about the variety, richness and rigor of the paths and self-direction, connections and overlaps these places and their peoples create. In the last decade, over 1,100 Clemson School of Architecture students have spent a semester off-campus in Barcelona, Charleston, or Genoa. And it should be noted that almost all of those students received a travel grant from one of the school’s endowments created by friends and alumni for just that purpose.

• The school gained breadth and depth, as it changed from a single discipline, Architecture, to a real school consolidated with multiple disciplines of Historic Preservation, Landscape Architecture, and Resilient Urban Design, and all of the opportunities and innovation that affords. With this consolidation, the school grew from a student enrollment of 371 students in 2010 to 575 in 2020; and an employee (staff and faculty) count of 37 in 2010 to 62 in 2020, an increase of almost 60% in both cases.

• The school celebrated a series of important anniversaries, including Architecture’s Centennial, Architecture + Health at 50, the Villa at 40 and 45, the CACC at 25 and 30+, the BIA at 25, and the BAC at 20.

• The school’s student racial and ethnic diversity increased. In 2010, the students of the School of Architecture’s disciplines were 83% White, less than 5% Hispanic, and just over 3% Black. Last year the students were 70% White, almost 10% Hispanic; and almost 9% Black. In 2010 just under 50% of the students were female; Today female students are a slight majority. The percentage of students who are in-state has remained fairly steady at 60%, and the percentage of international students has been 3-5% of the total.

• Faculty gender balance increased from 22% female in 2010 to 42% female currently.

• This degree programs are known and respected for their excellence. The accredited programs have received maximum accreditation terms, with all 3 programs (BLA, MLA, M.Arch) to be visited next in 2025, (in years...someone else’s problem). These same accredited programs are regularly (8 years in a row, and 9 of the previous 10 years for the M.Arch) highly ranked as most admired, top 10 programs at public universities in the annual DesignIntelligence rankings. The programs are also ranked highly as “most hired from”.

• The degree programs are highly sought and highly enrolled. Following an enrollment dip in 2013-2015, the last two years have seen record enrollment. In the most recent year, with 575 students enrolled, 23% of the students were enrolled in the graduate programs, and 77% in the undergraduate programs.

• The successful students and graduates of these programs are also highly sought and accomplished. In this decade, almost 1,400 students have received degrees in the School of Architecture’s disciplines. Undergraduates have gone on to successful careers and/or into the best graduate programs in the country, including ours. Student work has been regularly recognized with regional, national and international awards. Students and graduates have been hired by the best design and preservation practices in the country and abroad. The school’s 2020 Career Expo was attended by 93 firms from across the country.

• The faculty are ambitious and known as leaders in their disciplines and by their peers. Since 2010, 29 of the school’s faculty have been granted tenure and/or promotion by Clemson University. Faculty, including 2 endowed chairs, 2 named professors, and 1 alumni professor, have led Centers and Institutes; written books and won design awards; edited journals and chaired conferences; earned a patent and engaged in significant applied and theoretical research; garnered as much as $1.3 M/year in sponsored grants from some of the most respected and competitive sponsors; and collaborated with a wide range of foundations, agencies, industry sponsors, and other institutions. They have done all of this while teaching more contact hours than almost any other faculty in the university. Overall, 22 of the faculty hold Ph.D.’s.

LOOKING AHEAD

It has been my greatest professional honor and privilege to serve in this leadership position for this remarkable school. I believe, however, in term limits, and I believe that change is good for institutions and for individuals. For me, I will be happily returning to the faculty to teach and retool my research into the future of the design professions and practice.

I leave this position with high confidence in the school’s future success. This confidence comes not only from the “look back”, but from recent events and incoming leadership. The Spring semester of 2020 was one for the history books, with faculty and students making an unplanned and instantaneous pivot to remote instruction at Spring Break. It was remarkable to witness the nimbleness, aspiration and innovation of our faculty and students in making this pivot. They took to heart the old advice of “let’s not waste this crisis”, to design ever better practices of teaching and learning. They saw this unplanned challenge as an opportunity for innovation, rather than as a problem to overcome.

With this optimistic and visionary ability of design and preservation, faculty and students will continue to drive the accomplishments and culture of Clemson’s School of Architecture, and transform its disciplines, especially in a post-COVID-19 world. Public health crises, at least since the Plague in the Middle Ages, have consistently reshaped our cultures, technologies, cities and our built environment. COVID-19 has created a public health crisis that is creating a new normal, a new normal that our students, faculty and alumni will help design and lead.

Looking ahead, the school and college have inspiring new leaders to continue to build the strength and longevity of ambition and excellence of this school of southern roots and global reach. James Stevens, PhD, brings with him a global perspective and experience, and a rich understanding of urban and social justice design. He is a respected academic, architect and innovator in emerging fabrication technologies. He has great energy and vision, and an easy laugh. Nicholas Vazsonyi, Ph.D., the college’s new dean, (who also has an easy laugh), has already challenged us to remember that what ties us together in the College of Architecture, Arts and Humanities, is what makes us human. Each of them is absolutely the right person at the right time for their new jobs, leading design, arts and humanities to make a difference in a post-COVID-19 world, in this third decade of the 21st century.

Many of the things I’ve mentioned in my “look back” are quantitative metrics, which describe only a part of the excellence of this place. While we are beyond fortunate to have so many fiscal, physical and intellectual resources, it is the human resources that most matter. What makes Clemson’s School of Architecture unique is its people, its students, faculty, staff, alumni and friends, who have created and continue to nurture the most collegial, supportive, engaged and innovative academic environment I have ever known.

Thank you!

Kate Schwennsen, FAIA, Professor and Former Director, School of Architecture

Kate Schwennsen, FAIA, Professor and Former Director, School of Architecture

TRADEMARKED

Fluid Campus™

In the last decade, over 1,100 Clemson School of Architecture students have spent a semester off-campus, in Barcelona, Charleston or Genoa.
Mason Blackwell from Iva, SC with a Master of Architecture separates a stack of face shield parts produced with the 3D printers next to him.

Clemson University faculty and staff are using their expertise, creativity and the generosity of their community to prepare for the phased return to campus after the COVID-19 pandemic moved the University to modified operations. As one of the premier research universities in the nation, Clemson is fortunate to have resources and a tightly knit pool of experts to draw from as well as an army of people ready to jump to the aid of fellow Tigers at a moment’s notice.

Thanks to the foresight and leadership in the Clemson University Fire Department (CUFD), police department (CUPD) and health centers, the University was a step ahead of most of the country to respond to a pandemic because of several recent training exercises.

“Part of the reason we were better prepared than most with Personal Protective Equipment (PPE) inventory and action plans is because our first responders and health care workers went through a number of exercises to tabletop what an outbreak on campus might look like. We did it again with the measles threat in 2018 when it was projected there could be an outbreak in the Upstate. These exercises put us in a better position to think about this pandemic and is the reason we had a decent amount of PPE to start with.”

Those supplies, coupled with PPE donated from the University community, enabled Clemson to make a smooth transition to the current modified operations without drawing on federal stockpiles. As the planning for a move back to campus revs up, an interdisciplinary cross-section of campus institutions is pitching in to set Clemson up for continued success.

At the College of Architecture, Arts and Humanities (CAAH), a group of research professors, graduate students and 2020 graduates took 18 3D printers normally used to make scale models and repurposed them to make face shields. Led by Winifred Newman, director of the Clemson University Institute for Intelligent Materials, Systems and Environments (CI-iMSE), and Shan Sutherland, lecturer and manager of the Digital Design Studio and Materials Lab, the group set up five workspaces scattered far apart in the 55,000-square-foot Lee Hall to ensure social distancing and safety. The team produced 500 shields within a matter of weeks and plans to deliver 1,000 of the units to Clemson’s first responders. (A separate group called Clemson University Makerspace – made of undergraduate students in marketing, graphic communication, architecture and mechanical engineering – is contributing another 1,000 from their workspace in the Watt Family Innovation Center.)

The FDA approved their design, and each shield is sanitized after assembly and sits for at least two days before being delivered.

“We’re one of the bigger makerspaces on campus, so this is a great way to put the space to use during this time,” said Sutherland.

Phoenix Textiles of Landrum, which is owned by Clemson alumni, donated 5,000 feet of elastic to us to make shields, and our students jumped right in to put it to good use,” Sutherland said as the four students and recent graduates working on the face shields are great examples of the Clemson Family.

“Don’t forget that when all this started, those students were in the middle of taking finals. If I know them, they were also helping other students finish the semester. Add researching and producing these face shields and doing all this while trying to figure out how to finish your graduate studies strong while being kind of hamstrung – they are the best of the best,” Sutherland said.

Read the rest of the story at newstand.clemson.edu/preparing-for-students-return-leveraging-clemsons-talent-pool-and-resources/
UNLIKELY PARTNERS COME TOGETHER TO DOCUMENT, SHARE HOW MUSC HEALTH DEVELOPED COVID-19 SPECIMEN COLLECTION SITE

In medicine and emergency operations alike, experienced practitioners pass down knowledge in a way that expands upon classroom learning. The established surgeon teaches the young resident who in turn teaches the fresh-faced medical student. Experienced firefighters show new fire academy graduates how to deal with real-world situations. There’s a well-worn schedule for bringing the novice up to speed and giving him or her more responsibility.

But how do you widely disseminate knowledge when you’re in the middle of creating something new?

Normally you wouldn’t. In the midst of a pandemic, though, it becomes important to share innovations as they occur. That’s not so easy, but it became a lot easier for MUSC Health’s ambulatory safety and emergency manager when two locals from the National Park Service and Clemson University School of Architecture raised their hands and said they wanted to help.

In his role as ambulatory safety and emergency manager, Erik Modrzynski handles everything from water leaks to hurricane prep to the occasional wayward car crashing through a clinic. He began thinking about how to create a mass testing site for COVID-19 in January, when it began to look possible that the novel coronavirus could affect the U.S. When MUSC Health leaders decided the time had come to open such a site, he was told on a Sunday in March to have everything ready to go by Wednesday.

In the meantime, Simon Pastre had come to Charleston on March 9 to give a lecture and found himself ordered to remain in place indefinitely as cities and states began to shut down. Warren wasn’t new to Charleston—he’s the founding dean of the American College of the Building Arts, and the lecture he was giving was about an ongoing project to document gravestones at the Circular Congregational Church. But in February, he had started a new job in Louisiana at the National Center for Preservation Technology and Training, part of the National Park Service, and he was in the process of moving from Charleston to Natchitoches when he returned for what he thought would be a quick trip for the lecture.

Stuck working from home, Warren wondered if MUSC needed help constructing temporary buildings for treatment purposes. He thought his background, plus that of colleagues at the Clemson Architecture Center in Charleston, could prove useful.

“I decided to reach out to all three organizations just to ask the simple question, ‘Is there anything we can do to help support MUSC in regard to developing COVID protocols?’” he said.

Warren emailed Mary Mauldin, Ed.D., executive director of the MUSC Office of Instructional Technology and Faculty Resources. Mauldin had worked with ACBA in the past to help its professors, who are first and foremost practitioners of their crafts, to hone their teaching skills. Mauldin, in turn, connected Warren to Modrzynski.

Modrzynski welcomed Warren to the parking lot of the former Citadel Mall, now called Epic Center, where MUSC Health had just opened its specimen collection site. The almost 94,000-square-foot site allows people who have obtained a COVID-19 test to drive in and get tested while remaining in their cars. MUSC Health was the first facility on the East Coast to offer drive-up testing and the first in the nation to combine a telehealth screening to qualify patients for the drive-up specimen collection.

“One of the things that Simon asked was, ‘Has this ever been done before, and where did you get the plan for this?’ And I think I put it bluntly, ‘Simon, we’re flying by the seat of our pants here, making sure that not only is our care team safe but our patients are safe,’” Modrzynski said.

Warren realized that what MUSC Health needed help with wasn’t construction but documentation of how it had created a specimen collection site.

He reached out to David Pastre, a senior lecturer at the Clemson University School of Architecture who coordinates the Architecture + Community Build program in Charleston. Pastre and Warren had known each other for years because their programs used to be housed in the same building. Pastre’s students—six in graduate architecture, four in undergraduate landscape architecture and two in undergraduate architecture—had spent the first part of the semester working with the Charleston Parks Conservancy and neighborhood groups to develop plans for improvements to the West Ashley Greenway, including resting points and signage. They were supposed to get to work on building the improvements after they returned from spring break on March 23, but the pandemic forced a halt to all in-person classes and projects.

Pastre wasn’t sure how he was going to structure the remainder of the course when Warren called to recruit him into helping with documentation of the specimen collection site.

“I knew I would have a number of disappointed students who had spent several weeks designing and being excited to build something,” Pastre said. “But to be able to have that opportunity to work on something that was so critical and timely was a real gift. The students were able to accept the changes, know they were working on something that was critical and they felt they had something to offer.”

Pastre and Warren met with Modrzynski on site to take photos and drone footage that was then relayed to the students, who were tasked with collaborating virtually to develop a document that could be shared.

Modrzynski had already started such a document, but this was geared toward fellow emergency management professionals. It was very thorough in documenting safety procedures but didn’t give a sense of how the site worked as a whole, Pastre said. That was where his students could step in, along with some help from graphic designer Will Bullock.

“By sharing it, you’re going to make testing facilities safer and easier and less expensive to build and manage so that testing can reach further into communities that need it,” Pastre said. “My hope is that the outcome of this project is there’s a document that can be shared.”

Early on, it was agreed that people potentially infected with the novel coronavirus should be directed away from MUSC Health’s clinics and emergency rooms so as to avoid infecting staff and other patients. Even a dedicated clinic space—for example, the old Children’s Hospital Emergency Department, which had recently been vacated—wasn’t practical, Modrzynski explained. Each exam room would have to be thoroughly decontaminated after every patient, a labor intensive and risky task. Instead, a drive-thru type setup was designed, in which patients remained in their own cars, would allow the staff to test more people.

That left the question of where to send them. One of the ideas floated involving erecting a tent on the Horseshoe, a gathering spot in the middle of MUSC Health’s West Ashley Greenway, including resting points and signage. They were supposed to get to work on building the improvements after they returned from spring break on March 23, but the pandemic forced a halt to all in-person classes and projects.

Instead, MUSC Health partnered with mall owners, Richard and Ginger Davis, to take over a portion of the parking lot. Modrzynski used his background in firefighting to design the green, orange and red zones within the site that would indicate where personal protective equipment must be worn. But as he designed the traffic flow, Modrzynski turned to two icons of American culture—Chick-fil-A and NASCAR.

For up-to-date information about how Clemson is working to keep our faculty, staff, and students safe during this time, visit CLEMSON.EDU/CORONAVIRUS.
In recent years, the Clemson BLA Program has experienced strong demand, increasing enrollments, stable graduation rates and positive external recognition. In 2016, the BLA program was ranked 15th nationally and has remained a top 20 program. Clemson BLA is a young program with a small alumni base and small faculty—all factors that make our rankings remarkable.

There are many reasons for the recent success of the BLA program including our hard working and dedicated faculty and staff. Another big reason for our program’s success is our students who are intelligent, diverse and talented. In annual exit interviews and surveys, students report what they like best about Clemson BLA.

Here are the top five best things students like about Clemson BLA:

• Encouraging learning environment and collegial atmosphere
• Diverse range of project types and studio experiences
• Hands-on, experiential learning embedded into the program including fun and beneficial site visits and field studies
• Constructive, supportive relationships with faculty members and professionals including numerous opportunities for feedback from external reviewers
• Positive fluid studio experience including opportunities to collaborate with architecture faculty and students

Today, the BLA program stands out amongst our regional and national peers for the quality and character of our students, faculty, staff and alumni. In communities across South Carolina and beyond, Clemson University Landscape Architecture is making a real difference in lives of citizens and the quality of the built and natural environments.

In order to prepare for a botanical gardens design project, students in LARG 2510 went on a field study to the Atlanta Botanical Gardens.

Students in planting design worked with the City of Asheville to develop planting plans for several of their parks and Linwood Crump Shiloh Community Center. The students also learned about plant installation by helping a local neighborhood create a more appealing entrance.

Students celebrate a successful field study to Beaufort, Bluffton and the Lowcountry.

Students in “Regional Design and Ecology” created a plan for improving awareness, connectivity, recreational opportunities, and economic support for the Southern Experimental Forest. Students worked on multiple scales from a regional level down to a detailed site plan. The image above is a bird’s eye view of “Meadow Park” which highlights different ecologies of the Southern Forest landscape.

To learn more about greenways and trail, the students in Regional Design went biking on the Swamp Rabbit Trail.

Tara Carey wrapping up her first semester at Clemson by presenting her final project in Basic Design I.
STUDENT AWARDS

Even though our awards ceremony lacked some of the pageantry and spectacle of a typical year, our students’ work is impressive and outstanding as always. In fact, our faculty and awards jurors had a difficult time selecting nominees and winners. Please visit our website for awards descriptions and a list of past award winners. The 2019-20 CULA Student Award winners are:

Olmsted University Scholars
Echo Wang (BLA)
Perspective: Echo Wang

Olmsted University Scholars
Tong Liu (MLA)
Perspective: Tong Liu

Design Communication Award
Will Nickles

The Dan Collins Founders Award
Molly Foote and Jalen Jennings

Leadership and Service Award
Robert Levy

Promising Scholar Award
Marggie Gaston

The American Society of Landscape Architects: Certificate of Honor
Echo Wang (BLA)
Tong Liu (MLA)

The American Society of Landscape Architects: Certificate of Merit
Emily Long (BLA)
Gabe Jenkins (BLA)

The Mickel Fellowship in Landscape Architecture
Molly Foote

The Anna Lou and Robert Marvin Travel Fellowship
Calitjin Van de Meulebroecke

Blue Key Academic and Leadership Award
A special congratulations to Gabie Jenkins, recipient of the College’s prestigious Blue Key Academic and Leadership Award. Leadership is a core value for Jenkins, ’23. The landscape architecture major has worked with TigerQuest, helping new students adjust to academic success and university life at Clemson. He’s also involved with Habitat for Humanity and serves as treasurer of the Clemson chapter of the American Society of Landscape Architects, coordinating events and conferences. In summer 2019, he interned for Mass Design Group in Kigali, Rwanda, helping to design facilities for the Dian Fossey Gorilla Fund International.

SOUTH CAROLINA CHAPTER OF THE ASLA AWARD
John Ward

Diagrams: John Ward

CLEMSON MLA STUDENTS // SPRING 2020
THE LOT PROJECT

During the spring 2020 term the first year MLA students teamed with “The LOT Project” in Anderson, SC.

One of the LOT Project’s Missions is to provide creative solutions for tough issues in the community. Building on this mission, MLA students worked with the LOT Project leadership, community stakeholders and peers in the Clemson Masters of Architecture program to develop creative visions for three spaces within the Alphabet Streets Community in Anderson. One project focused on designing a community garden and gathering space on the LOT Project Campus in downtown Anderson. Other projects created vision for public gathering and recreation space for children in the part of town historically known as “Little Texas” and a neighborhood park was envisioned at the former mill manager’s home place.

During this design exercise and community engagement, our students began to scratch the surface on a number of social and cultural challenges that many underserved communities are facing on a daily basis.

This initial work will pave the way for future collaboration with our partners at the LOT Project and with our peers in the architecture program.

Professor Hambright-Belue’s fluid studio during the Spring 2020 semester investigated how architecture can bridge the gap between conservation and development in order to serve the interests of the community and promote a resilient future. In doing so, the studio worked closely with a number of community organizations and professionals including the Spartanburg Area Conservancy, McMillan Pazdan Smith, Lyons Industrial, Wofford’s Goodall Center for Environmental Studies, Partners for Active Living, Belue Farms, and others. Students were able to speak and meet with representatives of each of these groups via small working groups, reviews, site visits, and virtual meetings. Many of those events were made possible by generous funding from the CAF. Pictured: Bobby Lyons of Lyons Industrial, Stefan Langebeke Graduate Architecture Student, and Russell Buchanan of McMillan Pazdan Smith.
THE KEY IDEA BEHIND THE PREPROFESSIONAL UNDERGRADUATE CURRICULUM IN ARCHITECTURE AT CLEMSON IS ONE OF FLEXIBILITY AND FLUIDITY. THE IDEA OF FLUIDITY IS EVIDENT IN THE GENERAL EDUCATION REQUIREMENTS IN WHICH ALL STUDENTS PURSUE A MINOR DEGREE AS WELL AS STUDY A FOREIGN LANGUAGE. THE IDEA IS REINFORCED WITH THE SCHOOL’S FLUID CAMPUS AND THE UPPER-LEVEL FLUID STUDIOS. THE WIDE ARRAY OF CHOICES AFFORDED TO STUDENTS, BOTH IN TOPICS AND LOCATIONS, BROADENS THEIR EXPERIENCES AND ENCOURAGES THEM TO TAKE RESPONSIBILITY IN SHAPING THEIR OWN EDUCATIONAL AND PROFESSIONAL PATHS.

THE FULL LIST OF SPRING 2020 ARCHITECTURE STUDENT AWARD RECIPIENTS:

2020 Undergraduate Award Winners
- Second-year Faculty Award
  - Rudolph E. Lee Award
    - Danny Jarabek

- Rudolph E. Lee Award
  - MaryGrayson Roberts

- Peter R. Lee and Kenneth J. Russo Design Award
  - Tate Deluccia

- Alpha Rho Chi Medal
  - Eden Wright

- Undergraduate Design Prize (1st Place)
  - Nathan Fitzsimmons, Eric Hicks, Clayton Patrick, and Ethan Turner

- Undergraduate Design Prize (Honorable Mention)
  - Mackenzie Abernethy, Jenna Arndt, Taylor Beck, and Daphne Noegel

- Undergraduate Design Prize (Honorable Mention)
  - Lauren Davis, April Simms, MaryMargaret Stokes, and Hannah Smith

- Undergraduate Design Prize (Faculty Award)
  - Aaron Cordle, Morgan Kalk, Tate Deluccia, and Joe Whipple

- Clemson Architecture Foundation Prize
  - Lauren Davis

- Blue Key Academic and Leadership Award
  - Gabe Jenkins

- Student Award for Best Project
  - Nathan Fitzsimmons, Eric Hicks, Clayton Patrick, and Ethan Turner

- Omsted University Scholar
  - Echo Wang

- Design Communication Award
  - Will Nickles

- The Don Collins Founders Award
  - Molly Foste and Jalen Jennings

- The Inspiration Award
  - Dalton Burbage

- Clemson Architecture Foundation Prize
  - Robert Lovey

FIRST YEAR ARCH 1510

Throughout the semester, the first year undergraduate students learned about part-to-whole relationships and solid/void as well as various technical skills and representational techniques. For the third and final project, each student carved into a 10’x20’x10’ volume as a means to design an inhabitable viewing apparatus that responds to natural daylighting and human scale. As a sample of the work, 42 ghosted isometric drawings by 42 individual students (representing all studio sections) are shown. These x-ray like drawings are a representational abstraction that provide a lens for the students to see the interior and exterior of their designs simultaneously. They are more akin to a sketch—a work-in-progress—where seeing and reflecting is an integral part of the iterative design process.

FIRSTATION PROJECT

Inspiration Wall

Morgan Schumacher was inspired mid-project by a conversation with Professor Schott. “He made a comment that my project was very representative of what happened to our studio due to the COVID-19. More specifically, how we were all together one day, out of nowhere, seemed to be ‘broken’ from traditional studio. I wrote this poem on kind of a whim, but wanted to share it not only for laughs, but to connect it back to my building. A whole (building or studio) broken, but still beautiful.

A Break in a Whole

A part that was once whole, split right in two
Reminding us of the days that used to be true.

It worked well, as one whole part
But what would happen, if it was now art?
Art to remember the part as a whole
By learning new ways to reach new goals.
Goals of creativity, education, and a wish to go back.

If we can’t go back, what is the plan of attack?
To learn, to grow and to adapt.
Remembering a time where we did not feel trapped.
The whole was apart of us, and will be again in due time.
But until then, there is beauty in the unwind.

Beauty to paint, something new
To learn to listen, and to admire the view.
This break represents a new way
To learn to love while dreaming of better days.

We will always remember the break
But wash your hands for goodness sake.
And do not worry, the art will still stand
Even though it is broken and did not go as planned.

Surprisingly, we all wish to go back to the days
Where staying up late, was not just a phase.
When it is whole again, we will be reunited
Pent a time of being blinded.
But a break in a whole is not always a bad thing
I see it as a way to remember, we can take on anything.

-Morgan Schumacher
The building takes inspiration from a simple twist in form while the skin responds to the sun, those positioned in more direct sunlight round close up to shield the interior while those in less sunlight open up to bring in more natural light.

The building takes inspiration from a simple twist in form while the skin responds to the sun, those positioned in more direct sunlight round close up to shield the interior while those in less sunlight open up to bring in more natural light.

Project: The Three Rivers Engagement Center (TREC) is envisioned as a dual city-owned community facility that aims to increase access to and engagement with the rivers that divide the cities of Columbia and West Columbia. TREC will feature three elements: Two buildings – one in Columbia, the other in West Columbia – and a bridge for cyclists and pedestrians that serves to weave the facilities into the existing network of greenways and riverwalks, while connecting the two buildings to each other across the Congaree River. The sites for the new facility are south of the historic Gervais Street bridge, positioning TREC to serve as a new civic anchor adjacent to a Gervais Street corridor that connects recent development and adaptive reuse projects along Meeting Street in West Columbia to the vibrant Vista district in Columbia. In addition to facilitating river engagement, TREC’s mission is to preserve and amplify the local environment, culture and the arts in Columbia and West Columbia. The project was completed in partnership with the Greater Columbia Chapter of the American Institute of Architects.

Undergraduate Prize in Design
First Prize: “Three Rivers Confluence”
Nathan Fitzsimmons // Eric Hicks // Clay Patrick // Ethan Turner

Faculty Design Award
First Prize: “The Three Rivers Engagement Center”
Aaron Cordle // Morgan Clark // Tate Deluccia // Joseph Whipple

AIA of Greater Columbia Design Excellence Award
First Prize: “Three Rivers Confluence”
Nathan Fitzsimmons // Eric Hicks // Clay Patrick // Ethan Turner

AIA of Greater Columbia Design Excellence Award
Honorable Mention: “The Three Rivers Engagement Center”
Aaron Cordle // Morgan Clark // Tate Deluccia // Joseph Whipple

AIA of Greater Columbia Design Excellence Award
Honorable Mention: “One Columbia”
Mackenzie Abernethy // Jenna Arndt // Taylor Back // Daphne Nowak
The History of the industrial development in the Upstate of South Carolina gives us a unique perspective for understanding its cultural, social, and even, to an extent, its architectural roots. But it also helps us imagine how a new economic renaissance built around new technologies and clean energy could help solve the great social challenges (income inequality, severe rent burden, homelessness, . . . ) that our region is currently undergoing. This studio provided a platform to produce comprehensively developed architectural designs that take into account the complexity of that vision, and the multiple scales it encompasses.

During the second half of the 19th Century the Upstate witnessed a great economic growth thanks to the proliferation of textile mill communities mostly in riverside sites. The mills were usually built in partially isolated locations, which often made necessary the creation of new small towns ex-novo, with their own housing, stores and other community programs, in order to attract mill workers from other regions of the South. As a result, and mostly throughout the first decades of the 20th century, these small new towns turned into vigorous communities, where the work in the mill was transmitted from father to sons, and a strong sense of collectivity defined a very particular lifestyle. Decades later, not long after the decay of the local textile industry due mostly to technological changes and massive overseas relocations, the Upstate started to witness the growth of very different industries. First the French tire company Michelin in 1973 and later the German car manufacturer BMW in 1994, planted the seed of an international scale industrial development based in highly advanced technologies and the production of increasingly sophisticated products. A local company like the Spartanburg based Milliken embodies this transformation like no other. The company literally transitioned from owning dozens of textile mills during the 1920’s into global-scale chemical operation housed in facilities across the Upstate and beyond. With the global scale, the community could re-interpret its identity as the Electric City. Our goal is to connect the community and revitalize the brownfield through a system that could serve the city over time.
CLEMSON STUDENTS AGAIN RECOGNIZED FOR SUSTAINABLE DESIGN EXCELLENCE WITH NATIONAL COTE AWARDS

For the fourth year in a row, Master of Architecture students have been recognized by the American Institute of Architects Committee on the Environment (AIA COTE). Each year, the COTE Top Ten for Students competition honors sustainable design excellence, and this year Clemson students produced two of the 10 winning proposals from across the country.

“Elevated Integration,” a project by Clemson students George Sorbara and Hunter Harwell, provides a solution to Portland, Oregon’s growing number of families facing homelessness. Projects created at Clemson have received six of the 40 COTE student honors in the past four years, representing a full 15 percent of the awards presented nationwide. All student entries are judged anonymously.

“I don’t know that I could be prouder of our students and faculty for their consistent performance in the discipline’s best-known awards program for sustainable design excellence,” said Kate Schwennsen, former director of the School of Architecture.

Architects play a key role in addressing the effects of climate change through the design of the built environment. AIA developed its Committee on the Environment for this reason. The committee and its annual competitions help prepare students to predict needs and create adaptive and resilient structures.

The winning Clemson students are George Sorbara and Hunter Harwell for their project, “Elevated Integration,” and Ryan Bing and Joe Scherer for their project “Reclaim Resiliency: Dismantle. Dredge. Dwell.” The proposals were completed in the fall 2019 design studio III (ARCH 8510) taught by Ulrike Heine, David Franco and George Schafer.

“It is great to see how sustainability in all its aspects – socially, environmentally and economically – could be woven into our studio projects through the COTE Top Ten competition,” said Heine, an associate professor and assistant director of the School of Architecture.

Sorbara and Harwell’s project “Elevated Integration” sought to provide a housing solution to Portland, Oregon’s growing number of families facing homelessness. Their vision was to integrate an elevated urban highway with an all-encompassing building on Portland’s industrial Eastside capable of offering vital necessities for homeless families. The project included a two-story public market, three-story workforce development center, public library and a park.

Bing and Scherer’s project “Reclaim Resiliency: Dismantle. Dredge. Dwell.” focused on reconnecting Louisville, Kentucky with its riverfront, integrating permanent flood protection with mixed-income housing. The project would revitalize a neighborhood that marks an unofficial dividing line between segregated parts of the city. Their vision included providing space for a farmers market and other commercial enterprises where fresh produce, grocery stores and other retail outlets are scarce.

“These exceptional student design projects, wholly integrating and advancing design through adaptive, resilient, carbon-reducing strategies, lay an inspiring foundation for a future of architecture that protects and enhances the natural environment,” Schwennsen said.

The sixth annual Top Ten for Students competition was a partnership between AIA COTE and the Association of Collegiate Schools of Architecture (ACSA). The challenge required students to submit projects that use “a thoroughly integrated approach to architecture, natural systems and technology to provide architectural solutions that protect and enhance the environment.”

The winning COTE student projects will be displayed on the AIA and ACSA websites. Winning students will also receive an honorarium and online mentoring opportunities with professional architects.

Among this year’s judges in the COTE competition was Michael Horan, a 2019 graduate of the Clemson Master of Architecture program. Horan, who was one of the winners of last year’s COTE student awards, also earned his B.A. in architecture at Clemson.

“Elevated Integration,” a project by Clemson students George Sorbara and Hunter Harwell, provides a solution to Portland, Oregon’s growing number of families facing homelessness.

“Reclaim Resiliency: Dismantle. Dredge. Dwell,” a project by Ryan Bing and Joe Scherer, reconnects Louisville, Kentucky with its riverfront, integrating permanent flood protection with mixed-income housing.
IN A COLLABORATIVE DIALOGUE ON HEALTH CARE WORKER HOUSING

A conversation between Highlands Cashiers Hospital and Architecture + Health Graduate Studies

The Architecture + Health ARCH 4880/6880 Programming Class was engaged by Marc Hehn, HCA board member and Tom Neal, CEO of Highlands-Cashiers Hospital to help them create a VISION and a program for health care worker housing so that they can utilize housing as a recruitment and retention tool for both seasonal and permanent healthcare workers on or near the Highlands-Cashiers Hospital Campus.

The local economics of housing in this upscale vacation and retirement community has proven to be a negative factor in terms of both recruitment and retention of critical healthcare and support staff.

The twelve students in the ARCH 4880/6880 Programming Class utilized three trips to Highlands in February and early March for both site visits and analyses as well as three separate Gaming Sessions with key hospital staff and interested community leaders.

The results of these efforts (including a space program for 16 different housing unit types – Studio, 1, 2 and 3-Bedroom as well as a café, market and daycare facility) were documented in the Part ONE Programming Booklet and presented in a Zoom Meeting on April 30th, that included over 75 people in the virtual presentation and discussion from the Hospital, the Hospital Board and Interested Community Leaders, including the Mayor of Highlands.

Subsequent to this Programming effort, the eight students in the ARCH 8960 First Year Graduate Studio spent six weeks – working online (due to COVID-19) to select four separate sites – two on hospital campus property and two on private properties adjacent to the hospital campus. Each site had two students creating two different conceptual project designs on each of the sites. These eight conceptual design projects were documented in the Part TWO Design Studio Booklet and were also presented in the Zoom Meeting and virtual presentation and discussion with the Hospital, Hospital Board and interested Community Leaders April 30th.

The Hospital hopes to select one of the four sites and take the best housing concept or combination of concepts and develop that concept into more of a detailed Schematic Design for both budgeting and fund-raising purposes to help the hospital move forward and build the mixed-use worker housing project in order to help recruit and retain quality healthcare and support staff.

NOTE: Architecture + Health would also like to specifically thank Marc and Betsy Hehn for their generous donation to Architecture + Health to help finance our trips and the booklet printing – in addition to putting us all up at their house and a neighbor’s house down the street as well as feeding us a delicious dinner and breakfast at their house. Marc Hehn, by the way, is a loyal Clemson Alumni with a Masters in City and Regional Planning from Clemson.

HCA NOTE: There is no plan to build housing at this time; this study was intended to learn more about the opportunity and need for workforce housing, as well as support the education of the students.

Harminia Machry, former Graduate Research Assistant with the Center for Health Facilities Design and Testing (CHFDT), authored a paper that was published in March in the Journal of Patient Safety. “Proactive Evaluation of an Operating Room Prototype: A Simulation-Based Modeling Approach.”

https://journals.sagepub.com/journal/patientsafety/abstract/publisher/Head/Proactive_Evaluation_of_an_Operating_Room.99192.aspx

In December 2019, Anjali Joseph and Sahar Mhandoust, along with other Center for Health Facilities Design and Testing (CHFDT) researchers, visited the new pediatric Ambulatory Surgery Center (ASC) at the Medical University of South Carolina (MUSC) in Charleston. The purpose of the visit was to conduct a post occupancy evaluation (POE) of the facility. A POE toolkit was developed specifically for this evaluation. The new MUSC pediatric ASC has implemented many of the concepts developed over the course of the RIPCHD OR project.

The POE included conducting: 1) observations to map out key flows, layouts, and locations within the facility; 2) interviews with nurses, anesthesiologists, surgeons, and clean up techs; and 3) beginning the process of collecting video recordings of the ASC ORs. Video recordings of the ORs were collected over several weeks to obtain a variety of surgery types. The videos, flow maps, pictures, and interviews are being analyzed to understand the impact of OR design and induction rooms on staff work flow, to identify design barriers and facilitators, and to make comparisons to the RIPCHD OR project; study outcomes will be published this summer.

PHOTO ABOVE: OR in the new MUSC pediatric ambulatory surgery center, featuring integrated design concepts generated during the RIPCHD OR project.
REALIZING IMPROVED PATIENT CARE THROUGH HUMAN-CENTERED DESIGN IN THE OPERATING ROOM

The Center for Health Facilities Design and Testing (CHFDT) at Clemson University is in the 5th year of the Realizing Improved Patient Care through Human-Centered Design in the OR (RIPCHD.OR) project. The research is funded by the Agency for Healthcare Research and Quality. The multidisciplinary team, led by Anjali Joseph, Ph.D., Director of the CHFDT, includes faculty and graduate students from several disciplines across Clemson University, including Architecture + Health, Industrial Engineering and Operations Management, as well as team members from the Medical University of South Carolina (MUSC). In year 5 of the RIPCHD.OR project, the CHFDT team has evaluated implemented designs, developed the Safe OR design tool, published papers in peer-reviewed journals and released the results of year 3 and 4 accomplishments in “Realizing Improved Patient Care through Human-Centered Design in the Operating Room - Volume 3.”

https://issuu.com/clemsonchfdt/docs/ripchd.or_vol._3

The information gathered in RIPCHD.OR Volume 3 booklet is based on various projects conducted at that time. The final volume in the series serves as a complete overview and summary of project findings. Printed hardcopies were disseminated among Innovations in Surgical Environments workshop attendees in September 2019. Attendees included advisory committee members, industry experts, clinicians, designers and health care administrators.

In September 2019, the Center for Health Facilities Design and Testing held the Innovations in Surgical Environments ambulatory surgery center design workshop at the Clemson Design Center in Charleston. The two-day intensive event explored how different aspects of surgery center design impact patient safety, efficiency and patient experience, and provided attendees with actionable tools and approaches to support project teams in the design process. The Innovations in Surgical Environments workshop represented a culmination of the multi-disciplinary RIPCHD.OR (“Realizing Improved Patient Care through Human-Centered Design in the OR”) research project on different aspects of ambulatory surgery center design. The event involved around 100 attendees including advisory committee members, industry experts, designers, clinicians and health care administrators. The goal of the event was to provide industry leaders with in-depth knowledge of surgical center design and support others in applying a human-centered approach to their current or future OR projects. The RIPCHD.OR team presented study findings, held a panel discussion and launched their web-based Safe OR design tool http://ordesign.clemson.edu/or_design_toolkit developed over the course of the RIPCHD.OR project.

The second day of the event provided opportunities for architects and clinicians to develop and test their own OR design using simulation.
RANGE OF GEOGRAPHIC LOCATIONS.
The School’s great range of educational areas of emphasis and are vertical and multidisciplinary. Allow upper-level students to direct their own level students to off-campus fluid studies. Range of geographic locations.

Clemson Fluid Studios

This studio systematically laid out a basic foundation for using mathematical transformations as design tools. The studio was split into four parts. In the first part, students learned how to design with parametric equations. In the second part, the students physically fabricated doubly curved surfaces and used them as objects to think with. In the third part, the studio re-imagined what a local suburban development could look like, where each house was an object in a larger field condition. Surfaces and used them as objects-to-think-with. In the third part, the studio re-imagined what a local suburban development could look like, where each house was an object in a larger field condition. Conversely, each student designed a house for the development, where the appropriate use and role of suburban development could look like, where each house was an object in a larger field condition. "Pesto speaks Ligurian. Only take a smell, and your ears will pick up the vernacular. It is both hard and tender at the same time, built from drawer mixed, whispered syllables, getm vowels." Paolo Monera

Spring semester, the Gneoa Studio researched and explored the richness of the traditional Ligurian cuisine in the context of a social and commercial center in the Genova Historical Center. Specifically, the challenge of the semester was for the students to propose a culinary center which aims to bring a new visiting hub to the city. Culinary center which aims to bring a new visiting hub to the city. Throughout the semester, students advanced fabric formwork for concrete by applying tailoring techniques used in fashion. The course was structured around three parts. First, the students fabricated and designed textured concrete panels. Second, the students explored vertical columns. Third, the students applied their understanding of casting planar and linear elements as a means to design vertical columns. Fourth, the students experimented with casting planar and linear elements as a means to design vertical columns. Overall, the studio investigated how architecture can bridge the gap between conservation and development in order to serve the interests of the community and promote a resilient future. The Glendale Gateway is an idyllic center for cultural enrichment. The historic Glendale Mill site is a perfect setting to develop a center focused on outdoor recreation, education, history and culture. The close proximity to large cities, yet tranquil nature of Glendale Shoals, provides the local community and outside visitors with an enriching retreat like no other in the Southeast.
The first group of students took up residence at the Charles E. Daniel Center for Building Research and Urban Studies (the Villa) in Genoa, Italy, in fall 1973. The program balances the studio experience with the study of Italian architectural history, contemporary design and urban practices. Students live, eat and work together in the Villa overlooking the city of Genoa.

Danny Jarabek and Matt Poel

The Clemson Architecture Center in Barcelona (CAC.B), 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 universities and live in an international residence hall. Students are immersed in Spanish architectural history, contemporary design, urban practices and culture.

The site for both the Fall 2018 and Spring 2019 projects was located on Plaça de Gaudi directly across from Antoni Gaudi’s unfinished Expiatory Temple of the Sagrada Familia. The basilica has upwards of 4.6 million visitors a year and the surrounding area even more visitors. The students were asked to propose a design for a museum on the site, which currently hosts a landscaped plaza with a large reflection pond in the center. Clemson graduate students worked independently or with another graduate student. Clemson undergraduate students were paired with other undergraduates from Clemson, Texas A&M or Roger Williams universities.

clockwise starting from top right:
Spring 2020 BAC group in Toledo
The Netherlands - Educatorium by OMA at Utrecht University campus
Final Presentations group photo featuring all universities and jury (Clemson University, Texas A&M University, Roger Williams University and Cedim)
First online Design Studio crits - Miguel Roldan with Alyssa Halloran, Alexis Pagano
The Netherlands - Schröder House by Gerrit Rietveld Utrecht University campus
Design Studio first phase presentations at BAC
Design Studio first phase group discussions at BAC
FOR DECADES, CLEMSON ARCHITECTURE STUDENTS HAVE BEEN INVOLVED IN VARIOUS COMMUNITY-ORIENTED DESIGN-BUILD AND SERVICE-LEARNING PROJECTS. THROUGH COMMUNITY ENGAGEMENT AND APPROPRIATE DESIGN SOLUTIONS, ARCHITECTURE + COMMUNITYBUILD (A+CB) STUDENTS LEARN HOW ARCHITECTURE CAN BE A CATALYST FOR POSITIVE CHANGE. THIS PROGRAM IS DESIGNED FOR M.ARCH AND M.S. ARCH STUDENTS WHO WISH TO FURTHER THEIR UNDERSTANDING AND APPLICATION OF A COMMUNITY-CENTRIC ARCHITECTURE AND PROCESS, DESIGN AND BUILDING AT FULL SCALE, SUSTAINABLE PROGRAMMING AND ENTREPRENEURSHIP AND POST-PROJECT DOCUMENTATION AND SUSTAINED COMMUNITY IMPACT. TRUE TO THE UNIVERSITY’S MISSION, THE PROGRAM EMBODIES THE SPIRIT OF SERVICE LEARNING AND STUDENT ENGAGEMENT WHILE CELEBRATING FAMILY AND COMMUNITY LIVING, SUSTAINABLE ENVIRONMENTS, LEADERSHIP AND ENTREPRENEURIALISM, AND GENERAL EDUCATION. A+CB STUDENTS HAD A VERY SUCCESSFUL YEAR IN CHARLESTON.
THE MASTER OF RESILIENT URBAN DESIGN

THE MASTER OF RESILIENT URBAN DESIGN (MRUD) DEGREE ADDRESSES DESIGN AND DEVELOPMENT THINKING ABOUT HOW TO STEWARD CHANGE IN RAPIDLY GROWING METROPOLITAN REGIONS. THIS PROGRAM IS FOUNDED ON AN ISSUE-BASED, TEAMWORK MODEL WHEREIN STUDENTS ENGAGE ISSUES/QUESTIONS BASED ON A DESIGN-THINKING FOUNDATION AND EMPLOYED WITH METHODOLOGIES AND PROCESSES FROM MULTIPLE DISCIPLINES.

WHAT’S THE FUTURE? DESIGNING WITH WATER SYMPOSIUM

I n January 2020, the second in a series of symposia co-hosted by the Master of Resilient Design and Master of Landscape Architecture Programs. Held at the Clemson Center for Design at Charleston, more than 100 professionals, academics and students attended this interdisciplinary look at designing with water with key partner the Charleston Resilience Network facilitating as well. A keynote was given by J. David Waggonner of Waggonner and Ball on his firm’s work with developing the New Orleans Water Plan and the Dutch Dialogues. The next day presentations and panel discussions were given by: Rob Holmes (Auburn University), Brad Howe (SCAPE Studio), Joshua Robinson (Robinson Design Engineer), Erin Stevens (Surculus Designs), Blair Holloway (National Weather Service), Monroe Koester (University of South Carolina), Allen Davis (Charleston Civic Design Center) and Scott Parker (DesignWorks). Their work addressed the increased amount of flooding that communities are encountering. This includes not only coastal communities flooding due to sea level rise and the resultant impacts of astronomical high tides, but also severe storm flooding happening along estuaries and even further inland along rivers and tributaries. Water is now one of the many contexts with which built environment professionals need to design. Current strategies include rebuilding, retrofitting, fortification and adaptation. This symposium asked and discussed what are key methods that address risk mitigation and still promote place-making, sustainable design and socio-environmental justice? In other words, how can we learn to live with water in the 21st century?

The What’s the Future series is intended to have a third day presentations and panel discussions were given by: Rob Holmes (Auburn University), Brad Howe (SCAPE Studio), Joshua Robinson (Robinson Design Engineer), Erin Stevens (Surculus Designs), Blair Holloway (National Weather Service), Monroe Koester (University of South Carolina), Allen Davis (Charleston Civic Design Center) and Scott Parker (DesignWorks). Their work addressed the increased amount of flooding that communities are encountering. This includes not only coastal communities flooding due to sea level rise and the resultant impacts of astronomical high tides, but also severe storm flooding happening along estuaries and even further inland along rivers and tributaries. Water is now one of the many contexts with which built environment professionals need to design. Current strategies include rebuilding, retrofitting, fortification and adaptation. This symposium asked and discussed what are key methods that address risk mitigation and still promote place-making, sustainable design and socio-environmental justice? In other words, how can we learn to live with water in the 21st century?

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SEA-LEVEL RISE PANEL DISCUSSION

MRUD hosted a two-day panel discussion with the Charleston Resilience Network and the Institute for Sustainability and Resilience at the University of Hawaii to discuss Sea-level rise. Panels included faculty from a variety of disciplines from the College of Charleston, University of South Carolina, University of Hawaii’s, the Medical University of South Carolina and Director Wortham-Galvin from Clemson’s MRUD program. Public and private sector professionals from the City of Charleston Department of Planning, Preservation and Sustainability, SC Sea Grant Consortium, NDAO and the Army Corps of Engineers also participated in presentations, discussions and field tours. A final report was produced by the University of Hawaii’s Institute for Sustainability and Resilience entitled “Sea Level Rise Adaptation for Honolulu: Lessons learned from a three-city tour of Miami, Charleston, and Boston.”

SCANLONVILLE INTERNATIONAL DESIGN COMPETITION

The East Cooper Civic Club, Clemson Master of Resilient Urban Design, and Charleston Audubon launched “Designing Our History: An International Design Competition,” a search to identify a design team to transform a small public space into an homage to the region’s cultural history. Due to the COVID-19 pandemic, the competition deadlines has been extended to Fall of 2020. Clemson School of Architecture alumni are encouraged to enter!

The Park will serve as a community space and gateway to the historic community of Scanlonville, SC. The parcel itself has a contentious history. Purchased by the Town of Mt. Pleasant in 1999 for a fire station that was never built, the parcel was recently given away as a gift to a local land trust that intended to build a memorial park there. After thought negotiations, the community finally won back the deed in 2019. Today, the East Cooper Civic Club, whose members are long-time residents of Scanlonville and include descendents of the formerly enslaved people who created the community, is leading the design competition and will select the winner from among jury-ranked finalists.

The Designing Our History International Design Competition will be a two-phase competition. Registered teams will submit a concept drawing to a Selection Committee composed of leading landscape architects from Clemson, Harvard and Columbia Universities as well as Houd Design Studio. They will review initial submissions and recommend a limited number of finalists. These finalists will be offered a stipend to develop a preliminary cost estimate, and the winner will be selected by members of the East Cooper Civic Club. Diverse teams who can explain why this project speaks to them are encouraged to apply.

To register and for more information, visit: www.clemson.edu/caball/department/architecture/programs/mrud/news/international-design-competition/index.html

RILEY MAYORS’ DESIGN FELLOWSHIP

The Riley Mayors’ Design Fellowship educates mayors and equips them with the tools to envision and implement projects that positively impact the built and natural environment, quality of life, community pride and economic development in their cities and towns.

In the second of what is intended to be an annual event, MRUD and the Riley Center for Livable Communities co-hosted the Riley Mayor’s Design Fellowship Workshop. In the fall, students do research and fieldwork under the guidance of Director Wortham-Galvin in municipalities all over the state of South Carolina. Their work is turned into a briefing book which is distributed to the Fellowship mayors and to an expert resource team. In February, the mayors, the resource team, and the students who continued as interns met for a 3-day Design Workshop. During the workshop, mayors receive feedback, insight, technical advice and ideas from the resource team, fellow mayors, and student participants. The Workshop also features presentations panels on design and planning topics. It is hoped that each mayor returns home inspired and empowered to enact change. Following the Workshop, MRUD and the interns produce a public document of the design discussions and visualization that is meant to aid the mayors in their future projects. This year’s cohort included mayors from: Aiken, Batesburg-Leesville, Hanahan, Laurens, Lancaster, and North Augusta.
The graduate program in historic preservation is a collaborative effort between Clemson University and the College of Charleston. The program, which is based full time in Charleston, South Carolina, offers the Master of Science in Historic Preservation and the Certificate in Historic Preservation.

Our second-year students didn’t slow down due to COVID-19. Their theses were wrapped up, but they still had two elective courses to complete. In the Zoom photo, they meet with Professor Bartlett in Historic Structures Report class. They are synthesizing the field work they completed at the Brick Baptist Church, which is part of the Reconstruction Era National Historical Park. Professor Bartlett writes, “We weren’t able to be in the field as originally planned, for obvious reasons, but we did have some friendly animals join us today. Pets and conference calls are always the best!”

First-year students turning in final book for investigation, documentation and conservation.

Professor Laurel Bartlett, Ph.D with an artifact

A COVID-19 graduation in the streets of Charleston. Social distanced, of course.

COVID-19 may have postponed our traditional commencement ceremony, but we wanted to celebrate the class of 2020 and all they have accomplished over the last two years. Enter Professor Leifeste, who planned an incredible, socially distant commencement ceremony that traveled right to the students’ residences! After processing down a street lined with program faculty, each student was presented with a 6-ft long “diploma” by program director, Jon Marcoux. Congratulations Class of 2020!

“I love the emphasis on gaining first-hand experience in this program. Every week we are out of the classroom and learning by doing. I love working with my hands, and having the opportunity to try new things and work with new materials has been such a gift!” – Darcy Neufeld, 1st Year Graduate Student in Historic Preservation. In the photo, Darcy is taking a turn at shoveling in order to expose a brick path that was most likely a small walkway or even part of a wall.

John Bennett, Kayleigh Defenbaugh, Monica Hendricks, Taneshia High, Elliott Simon and Rachel Wilson from the Graduate Program in Historic Preservation earned third place in the annual Historic American Landscapes Survey (HALS) Challenge for their study of the history and impact of Charleston’s Broad Street. The six-member team meticulously detailed the features of Charleston’s Broad Street, a corridor that has long been a cultural and commercial center of Charleston.

In our Cultural and Historic Landscapes course, students learn that historic preservation is about more than individual buildings. We study the myriad relationships that compose the built/natural environment. Like most of our curriculum, this course is very much hands-on, as students learn the skillsets they will need to document and preserve important designed and cultural landscapes. Recently, our students learned to use a survey instrument called a laser total station to create measure drawings of Chapel Street Fountain Park in Charleston. Their final products adhere to standards set forth by the Historical American Landscapes Survey of the National Park Service.” – Jon Marcoux, Director of Graduate Program in Historic Preservation.

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The walls stood for only 30 years, knocked the gunfire as devastating to British soldiers. One eyewitness characterized it withstood attacks during the 1780 Siege of Charleston. It went from Marion Square to the Francis Marion Hotel and road into the city. It was,” said Doug Bostick, director S.C. Battlefield Preservation Trust, who hopes to make the site a featured stop on a statewide battlefield trust.

This was the literal gates the city,” he added. As the fort was torn down, a few pieces were kept by nearby landowners to be used as garden walls. Less than 100 years later, the slab apparently was all that remained visible, photographed by a Union soldier at the close of the Civil War, indexed off by artillery pieces with a stack of cannonballs alongside. Sketches of the Horn Work have been preserved, but they disagree on details. A few archaeological survey trenches were done in the 1990s as part of a reclamation of the square after the wreckage of Hurricane Hugo. That survey found pieces.

This week, students working under design center graduate student, Rachel Wilson, of “Horn Works” on Wednesday Feb. 5, 2020, in Charleston. Photo by Gavin McIntyre.

For more information, please contact either Jon Marcoux jmarcou@clemson.edu or B.D. Wortham-Galvin bdworth@clemson.edu.

CALL FOR PROPOSALS
We invite paper presentation and workshop proposals by preservationists, engineers, city planners, architects, landscape architects, conservationists, community organizations, legislators, insurers, historic home owners and other stakeholders. With “action” broadly construed, we encourage presentations and workshops that propose, study, evaluate, critique, demonstrate, etc., the diverse strategies that have been devised to protect historic buildings and landscapes from the increasing threat of inundation.

The ugly slab of shell-spattered rock in Marion Square was once a piece of an intimidating tabby fort that stood like the battlements of a castle in front of the British attacking Charleston during the Revolutionary War. The so-called “Horn Work” was a walled-off, moated, 8-acre bulwark that held 18 of the Americans’ largest guns behind a gate wide enough that Gen. William Moultrie rode through at a full gallop.

The works might easily be the largest tabby fort ever built. But nobody knows, yet.

That’s why Clemson Design Center and College of Charleston students are in Marion Square this week rolling ground-penetrating radar trying to ping buried rock slabs or the leftover remains of the fort’s foundation.

The goal is to pinpoint where and how big the defense was while helping to better understand its signature role in the history of the city using interpretative markers and augmented reality re-creations.

“This is the ninth iteration of Keeping History Above Water and is a partnership between the Clemson Design Center at Charleston’s graduate programs in Historic Preservation and Resilient Urbanism in collaboration with the Newport Restoration Foundation. The 2021 Keeping History above Water is being hosted by the Clemson Design Center at Charleston graduate programs in Historic Preservation and Resilient Urban Design.

Life in Charleston is and always has been oriented toward the sea. Science clearly indicates that as the 21st century progresses, the city’s prosperity will be tied to its ability to manage risks associated with floods (surge, tidal, rainfall, storm water, drainage, surface, groundwater) and sea-level rise. With growing public awareness that Charleston’s historic buildings and landscapes are among the city’s most valuable and vulnerable economic and social resources, any plan for the future must consider these material assets from the past. Fortunately, stakeholders in Charleston are already taking action.

Keeping History above Water: Charleston will build upon the past successes of KHAW events in other cities. With the theme “Communities in Action,” this workshop is specifically not about climate change, per se, but rather what communities are doing to ameliorate climate-related water impacts on historic resources in Charleston and across the United States. The workshop will feature a keynote panel, morning presentations and afternoon tours, site visits and hands-on projects that allow attendees to experience how stakeholders are taking on water-related preservation challenges. The keynote panel will discuss the climate/sea level challenges people in the Gullah Geechee Heritage Corridor are facing, how these forces impact their tangible and intangible cultural heritage and how these challenges are being met.

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CONGRATULATIONS, 2020 GRADUATES!

2020 SCHOOL OF ARCHITECTURE GRADUATES

ARCHITECTURE
Mackenzie Abemethy
Kaylee Alvarez
Jenna Arndt
Andrea Balandran
Taylor Beck
Dominic Becker
Taylor Bissert
Mason Blackwell
Christian Bravo
Chani Chambers
Hawraa Charara
Morgan Clark
Kathleen Coker
Erin Coleman
Owen Connors
Aaron Cordle
Lea Coundoussias
Charles Curtis
Lauren Davis
McKenna DeFranco
Sophia Delgado
Tate Deluccia
Roberto Diaz
Manzanares
John Dittenhauser
Madilyn Dubois
Caroline Elliott
Nathaniel Fitzsimmons
Charlotte Fleshkel
Seth Forrester
Cameron Foster
Deedra Franklin
Megan Gotsch
Aaron Green
Joshua Guettin
Caleb Haik
Kathryn Hardwick
Dinaisyi Harrison
Audrey Hesson
Eric Hicks
Heather Hinton
Justin Hoppe
Michael Horan
Lauren Hurlbut
Thalia Jimenez Escobar
Jordan Johnson
Cailynn Joyner
Isabel Korn
Hailey Krabbe
Alexander Langford
Joshua Lauderdale
David Lee
Yiming Lei
Dillon LeJeune
Chengli Ma
David Mackey
Michael Massengill
Kendall Massey
Richard Moore
Garrett Morgan
Kari Morgan
Katherine Morgan
John Murden
Angela Nessel
Jonathan Newell
Jacob Nixon
Daphne Noegel
Devon O'Geary
Molly Park
Clayton Patrick
Kayla Patrick
Libby Pelzel
Coral Rembert
Philip Riazzi
Heath Roberts
MaryGrayson Roberts
Cole Robinson
Kaitlyn Salvia
April Simms
Hannah Smith
Lone Southern
Adrianna Spence
John Staples
Nathan Steele
Mary Stokes
Jiarui Tan
Emmanuel Taylor
Carson Thompson
Cayla Turner
Ethan Turner
Kelly Umulutu
Chloe Voltaire
Joseph Whipple
Jacob Wiles
Ayla Wooten
Eden Wright
Daria Yoder
Francisco Zambrano
Liying Zhang
Yuqing Zhou

HISTORIC PRESERVATION
John Bennett
Kayleigh Denefbaugh
Monica Hendricks
Tanesha High
Elliott Simon
Rachel Wilson

LANDSCAPE ARCHITECTURE
Mary Carole Bourey
Natalie Cliver
Marissa Gigis
Jensen Haldrup
Brendon Harley
Lauren Hobbs
Kipp Kemper
Robert Leye
Daia Liotta
Tong Liu
Phillip Luquere
Zhenrui Mei
Chidiobue Okenwa
Katia Olmsdell
Chelsea Preciado
Raffaele Rivela
Hannah Rudman
Robert Trifone
Elizabeth Tuffnell
David Turcott
Xingian Wang
Ellen Wilkins

COVID-19 GRADUATION
It’s not how we would have liked to honor our graduates, but we made the most of the night celebrating our 2020 M. Arch graduates via Zoom. Over 100 graduates with their families, faculty and staff joined the event. The SoA is very proud of how this class of exceptional problem-solvers, makers, design-thinkers and servant leaders (to name a few of their characteristics) were able to finish the semester strong. We look forward to all of their future contributions and successes. They will make a difference in this world!

SARA AWARD
Graduate students Kelly Umutoni and Josh Guertin’s (M.Arch ’20) fall 2018 studio project, “A Vertical Social Street,” received a SARA (Society of American Registered Architects) at its Annual National Conference in Chicago this November. The project is an urban living complex in Minneapolis from the fall 2018 COTE 10 studio led by professors Dan Harding, David Franco and Ulrike Heine.

MEMORIAL
Faculty, staff and students gather for a memorial to celebrate and honor the life of Professor Robert Albert Bruhns. Many wore Hawaiian style shirts in his honor.

Professor Robert R. Hewitt, center, was formally recognized as a Fellow of the Society of Landscape Architects at an Investiture Dinner Nov. 17 in San Diego.

SoA Staff members on their first Zoom meeting after the closure of campus due to COVID-19.
DEAR FELLOW 1971 CLEMSON ARCHITECTURE GRADUATES,

Coming in 2021 will be the 50th anniversary of our 1971 graduation from the College of Architecture. We hope over these years that all of you have had successful, fulfilling careers in architecture, construction, visual arts or other related industries, and, as we have, that you have found that your architecture education and Clemson experience have served you exceedingly well in whatever career you may have chosen.

In recent conversations, we came up with the idea of a joint effort by the last full 5 year program graduates and the first 4+2 program graduates to create a scholarship endowment for future students of the various architecture programs. The list of architecture degree programs has grown and evolved to now offering degrees in landscape architecture, historic preservation, resilient urban design and many more. Our two classes represented the beginning of this major transition period for the School of Architecture from which so many of these new program offerings and opportunities have blossomed.

Your support of this endowment will assist a student in need pursuing a course of study in any one of these areas.

Working with Amy Vogelgesang, Director of Development for the College of Architecture, Arts and Humanities, we have put together a five-year plan to create the Architectural Class of 1971 Endowment, a need-based scholarship endowment for architecture students which would provide for a $4,000 scholarship annually. The first scholarship award is planned for 2021, the 50th anniversary year of our graduation, with additional awards in 2022 and 2023. As of this writing, $11,000 has already been donated and another $29,000 pledged. As an endowment must be $100,000 or more, the goal is to secure the balance over the next five years. Once the endowment is fully funded, the return on its investment will fund the annual scholarship.

Gifts can be in any number of forms: one-time contributions, 5-year agreements with a variety of payment options, estate bequests, gifts in memory of someone, anonymous gifts, personal budgeting for annual giving or other forms of giving as works best for you. IRA rollover options are also available if relevant to you. The only criterion is that the Architectural Class of 1971 Endowment must be fully funded, or at least very close to being so, within five years. Any funds received toward this endowment will also be included in the gift totals for the Class of 1971. For more information, please contact Amy at avogelg@clemson.edu.

Please consider participating in some way, as a graduate of Clemson’s outstanding architecture program, to assist many architecture students in years to come.

Sincerely, your classmates,

RAY HUFF
5 Year Program Graduate
hraymon@clemson.edu
843.933.0504

STEVE RUSSELL
4+2 Program Graduate
steve@charlestonarchitecture.com
843.860.2984

AIA College of Fellows

SoA Alumni, Wayne Rogers (L) and David Moore (R) have been elevated to Fellowship by The American Institute of Architects. Founded in 1952, the College of Fellows is composed of members of the Institute who are elected to Fellowship by a jury of their peers. Fellowship is one of the highest honors the AIA can bestow upon a member. Election to Fellowship not only recognizes the achievement of the architect as an individual, but also elevates before the public and the profession those architects who have made significant contributions to architecture and to society. Only 3 percent of the AIA members have this distinction.

2020 Young Architect Award Recipient

Aaron Bowman

Emerging talent deserves recognition. The AIA Young Architects Award honors individuals who have demonstrated exceptional leadership and made significant contributions to the architecture profession early in their careers.

CAREER EXPO 2020

We were able to host our Annual Career Expo in March before campus shut down due to COVID-19. We are thankful for all of the firms that attended and met with our students. Several students were able to set up future job interviews as well as internships. These face-to-face interviews give students the opportunity to show off their work and share their passions as well as give them insight as to where they need to improve.

ALUMNI NEWS
Kevin Crumley, a graduate student from Greenville, S.C. in Clemson University’s architecture program organizes rows of face shield head bands produced with 3D printers by a group of students and recent graduates to help Clemson first responders during the coronavirus crisis. (Photo by Ken Scar)