

KNOWLTON SCHOOL

2019–2020
YEAR IN REVIEW



THE OHIO STATE UNIVERSITY

KNOWLTON SCHOOL

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FROM THE DIRECTOR

TO ALUMNI AND FRIENDS

As I reflect on my time as Director, I am reminded of last year's commencement address. In his remarks, Fareed Zakaria argued that the American egalitarian promise is best fulfilled at public universities like Ohio State, that educate the broad population upon which a democracy depends. Education is our best investment as individuals, as a country, and as a civilization.

As in previous years, this year's review celebrates the accomplishments of our educational community: students, faculty, and alumni. There is much to celebrate. Roaya Higazi (BSCR '21) is the new president of Ohio State's Undergraduate Student Government and our graduate students were again recognized in the ULI Hines Student Competition. Assistant Professor Kareem Usher's innovative teaching has engaged students in the larger world outside the classroom and the creative work of Associate Professor Justin Diles, Assistant Professors Halina Steiner and Forbes Lipschitz are advancing sustainability efforts. Alumni Jerome Haferd (BSArch '07) and Kris Lucius (BSLA '04) are both producing award-winning work early in their careers as are our faculty: Beth Blostein, Bart Overly, Ashley Bigham, and Erik Herrmann. And this is only a brief overview.

Certainly, the last months have been challenging for everyone. The combined effects of the coronavirus and racial injustice—financial, social, medical, and cultural—have left their imprint everywhere, not the least on the school. I have every confidence that our students, faculty, and staff will rise to the occasion under Dorothee Imbert's leadership to engage pressing environmental and social issues as well as provide creative solutions to course delivery. However, it is also clear that major cultural shifts must occur if we are to address environmental change and 400 years of racial inequity. If, that is, we are to fulfill the promise that Fareed Zakaria so eloquently described. This will require everyone's commitment to The Ohio State University's motto: Education for citizenship.

Michael B. Cadwell, FAIA

Walter H. Kidd Professor
Director, Knowlton School
The Ohio State University



Clockwise from left: Assorted Demo Scenes (Galo Canizares); Fulfilled (Outpost Office); Field Futures: Adapt by Numbers (Forbes Lipschitz); 74 Things (Neyran Turan); REJECTED: Architectural Drawings and Their Stories (Team B).



THE LEGACY OF MICHAEL CADWELL

Michael Cadwell ended his nine-year tenure as Director of the Knowlton School in July 2020. We sat down with him to look back at his time as Director and to look forward to what the future holds for Knowlton.

As your nine-year term as director comes to a close, can you reflect on changes or evolutions in the school?

The school is named the Austin E. Knowlton School of Architecture in honor of the alumnus who provided the donation that led to the construction of our building, Knowlton Hall. It is not unusual for schools of architecture to contain landscape architecture and planning, but it did not seem appropriate for the other disciplines to be unacknowledged at our school, especially given the strengths of landscape and planning. We now refer to ourselves simply as the Knowlton School.

We have been fortunate to have had the leadership and support of Dean Williams. We also have dedicated and knowledgeable staff and excellent leaders in the school: Dorothee Imbert and Kristi Cheramie in landscape architecture and Rachel Kleit and Jennifer Clark in planning. They have built on a strong group of senior faculty and hired promising junior faculty, both are attuned to disciplinary shifts—in landscape architecture towards environmental concerns and in planning towards equity and social justice. Architecture still enrolls the majority

of students in the school and maintains its strengths in form making and critical discourse, but there is now a dialogue across disciplines reinforced by the arrival of Todd Gannon to lead architecture. Todd would be the first to say that the form of a building has social, political, and environmental consequences.

Our professions can define how we experience the world. What do you notice in your encounters with the built environment that may not be apparent to a person not trained as an architect?

I am an architect, so I can look at a building and analyze how it is built, why it is formed and sited, and even speculate on its references to architecture's past and contributions to its future. How the building acts, however, is available to anyone and their observations will probably not be so different from my own. Knowlton Hall, for example, announces the western boundary of the main campus, its curved northern flank draws us through the grove of trees along Woodruff and into the east portico, while inside, the great ramp carries us upward through dynamic interlocking spaces capped by an intimate library and secluded garden. This experience is available to anyone. Of course, the experience might challenge some. But, a building that challenges our preconceptions of site, landscape, and construction is appropriate and, indeed, necessary to the education of planners, landscape architects, and architects.



Left to right: Michael Cadwell juries a second-year graduate architecture review; Cadwell meets with design firm representatives and students during an Office Associateship Program Reception.

In your approach to architecture, you have drawn wide-ranging insights, from the poetry of Seamus Heaney to the music of Parliament/Funkadelic. Is an open and informed cultural sensibility necessary for the school's disciplines?

All of our disciplines are involved in a social enterprise and a creative practice, whether it is designing a building, park, or town. Certainly, it is important to develop a particular expertise so that you can effectively engage the world. But it is also important to be informed by the complexities of the world and the numerous ways creative people have navigated its complexities. I am an architect, but I recently read Jill Lepore's *These Truths* to better understand our nation's history, and I trust it will be as important to me as my studies of construction details. I am engaged in a creative enterprise, so I gain strength from the work of artists. Seamus Heaney often

comes to mind—"Go beyond what's reliable / in all that keeps pleading and pleading..."—as do the guitarist Eddie Hazel and bassist Billy Nelson. They were no older than our undergraduates when their bandleader George Clinton locked them in a motel room with a selection of acid rock albums, a quarantine that led to some of the funkier, danciest, funnest music ever. It's a big world. Our disciplines provide us with vehicles with which to navigate the world. We must remain open to the world or we'll sail off to nowhere.

What are some of the challenges students have to face as they decide to pursue a career in design and planning?

Our recent graduates are faced with significant challenges. Recent events have called into question every aspect of their lives: economic, social, political, and medical. As daunting as

this is, I believe that our students are up to the task. Where else at the university do you learn to assimilate a wide range of information, arrive at a creative proposal, and defend it in public? At a minimum, this is an ideal strategy for a job interview. More importantly, this is a way of life. I always encourage students to live with the same courage, intelligence, and energy with which they pursue a design project. It is a challenging time, no question. But it is a time of great possibility. It's your life, design it.

What challenges lie ahead for the school and its disciplines?

There are, of course, immediate challenges ranging from the increasing reliance upon international markets and digital technologies to the persistent vulnerability to economic fluctuations. Leaving aside the common concerns of everyday practice, however, our broader social mandate has not changed. PBS recently aired Ken Burn's documentary on Mark Twain in which *The Adventures of*

Huckleberry Finn was summarized by two timeless American themes: race and space. Recent events have underscored how powerful these themes remain. The killing of George Floyd has awakened us to the persistence of racism and the coronavirus has underscored an interconnectedness that trumps the vast expanse of our country and the endless individual freedoms it seems to offer.

In order for our disciplines to remain relevant, they must be more representative of the population at large and more active in communities beyond narrow professional affiliations. What discipline can survive that does not listen to unheard voices or access what will soon approach a quarter of its talent pool? What civilization can survive if it willfully ignores the environment in which it is built?

Our school is more diverse than it was ten years ago in students, staff, faculty, and leadership. We are committed to doing better. Our teaching and scholarship are dedicated to addressing our interconnectedness: social, ecological, and cultural. I remain optimistic. I am especially grateful for the great public educational adventure that is The Ohio State University.



Planning student designs a city using computer simulation technology in CRPLAN 2110: Creating Innovative Cities and Regions.



NEW LANDSCAPE ARCHITECTURE LEADERSHIP

KRISTI CHERAMIE SELECTED AS SECTION HEAD

In January 2020, the Knowlton School named Associate Professor Kristi Cheramie the next Head of the Landscape Architecture Section.

Cheramie joined the Knowlton faculty in 2014. Before coming to Knowlton, she taught at Louisiana State University. Cheramie has received widespread recognition for her research and teaching.

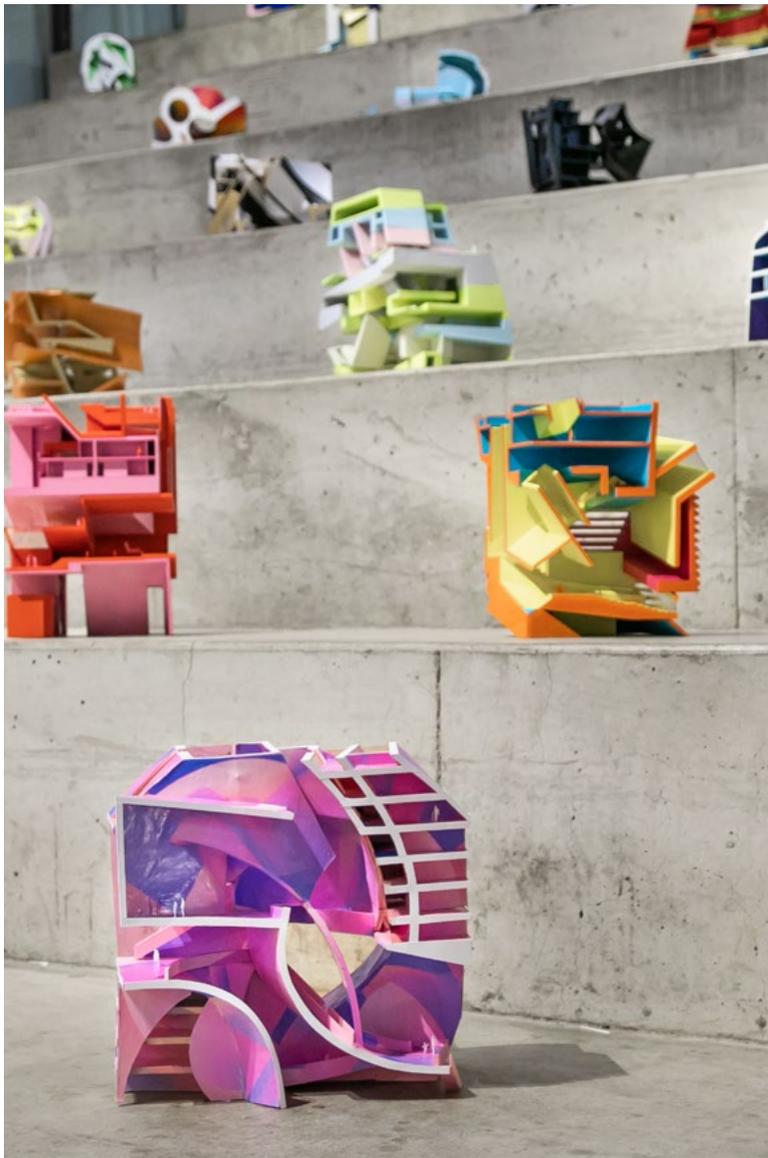
Using speculation as a tool to reconstruct the historical systems, scales, and materials...reveals interconnections between story, memory, ground, and time.

Her research explores the many ways we use building to respond to and cope with environmental fluctuation. Using speculation as a tool to reconstruct the historical systems, scales, and materials that give rise to adaptability and transformation in the landscape, her work reveals interconnections between story, memory,

ground, and time. Her first book, *Through Time and the City: Notes on Rome*, will be released later this year from Routledge. In 2016–2017, Cheramie received the Rome Prize in Landscape Architecture from the American Academy in Rome, where she examined early modern notions of environmentalism and perceptions of flooding, climate exigencies, and debris.

Running parallel to her projects in Rome, Cheramie also works on the implications of early 20th-century flood control infrastructure in the Lower Mississippi River Basin. In addition to writing, Cheramie's visual work has been exhibited throughout the US. Most recently, the exhibit *After the Great Flood: Recovering Impossible Histories of the US Army Corps of Engineers* (with Matthew Seibert) was installed at the University of Virginia. This is the fourth installation of this work, opening first in the Banvard Gallery of the Knowlton School in 2016. Her work on Louisiana coastal communities compromised by land loss, sea-level rise, and competing industrial interests has been supported by the Van Alen Institute and the National Endowment for the Arts.

Cheramie holds a Bachelor of Science in Architecture from the University of Virginia and a Master of Architecture from the University of California, Berkeley, where she was awarded the John K. Branner Traveling Fellowship.



Clockwise from left: Student models from G2 architecture studio; peer reviews during Don Leonard's planning course; review of sophomore landscape architecture models; peer review during Zhenhua Chen's planning course; mid-year review of Jake Boswell's G1 landscape architecture studio; autumn semester final review for G3 architecture studio; peer review of Katherine Jenkins's G1 landscape architecture studio.



PLANNING (FOR) THE FUTURE

PLANNING STUDENT ROAYA HIGAZI ELECTED PRESIDENT OF STUDENT GOVERNMENT

City and regional planning student Roaya Higazi was elected president of Ohio State's Undergraduate Student Government. We spoke with Higazi to discuss her plans for the future, and how her planning discipline may play a role in shaping that future.

Building from your campaign platform—that addressed access and affordability, for example—can you give us a sense of what you hope to accomplish next year as president of Undergraduate Student Government?

During our term, I hope to inherently change the way students engage with student government and advocate for themselves in all levels of governance in the university. Throughout all of our policies and projects that we hope to continue or implement, we want to place an emphasis on justice and equity and bringing our most marginalized identities and lived experiences to the forefront of every conversation. Showing administrators that this is a priority to the student body creates a more equitable experience for students across the board.

Can you tell us how you decided to pursue a degree in city and regional planning?

Coming to Ohio State, I had no idea what city and regional planning was. I was really interested in social justice and the impact

of policymaking on different communities and knew that I eventually wanted to go to law school. My advisor, Christine Meadows, recommended that I try out a few CRP classes, and I fell in love with the content. My courses have really changed the way I see the world and the impact of policy and planning leaders, and have shaped my goals for the future.

With another year before you graduate from Ohio State, can you provide a glimpse of what you hope to do in your early professional career?

After graduation, my goal is to pursue the Fulbright scholarship and spend a year abroad. After that, I hope to go to law school and pursue a career in the local or regional level of advocacy around affordable housing and anti-housing discrimination laws.

As you preside over Undergraduate Student Government next year, do you anticipate ways that your experience in the planning discipline will inform how you approach challenges and opportunities?

My time in CRP has taught me a lot about public participation processes, advocacy vs. empowerment, and creating sustainable systems. I'm excited to see how the best practices I've learned in my courses and internships can influence a more inclusive student government.



KNOWLTON'S NEW DIRECTION

DOROTHÉE IMBERT TO LEAD THE KNOWLTON SCHOOL

Landscape Architecture Professor Dorothee Imbert has been named the new Director of the Knowlton School. Imbert's four-year term will begin autumn semester 2020. She will succeed Walter H. Kidd Professor Michael B. Cadwell, FAIA, who has served as director for nine years.

"Former Director Mike Cadwell has marked his directorship with the concept of One School," reflected Imbert as the Knowlton School moves into a new era of leadership. "It is imperative that we stay true to this vision and bridge across sections. Students demand interdisciplinarity; complex environmental, urban, and social issues demand collaborative research; excellence demands diversity."

Imbert joined the Knowlton faculty in 2013 as the inaugural Hubert C. Schmidt '38 Chair in Landscape Architecture. Before joining Knowlton, Imbert established the Master of Landscape Architecture program at the Sam Fox School of Design & Visual Arts at Washington University in St. Louis and taught at Harvard University's Graduate School of Design.

Imbert's research includes work on landscape modernism with an emphasis on Europe and California. She is the author of *Landscape Inventories: Michel Desvigne Paysagiste* (2018), *Between Garden and City: Jean Canneel-Claes and Landscape Modernism* (2009), *Garrett Eckbo: Modern Landscapes for Living* (2005), *The Modernist Garden in France*

(1993), and the editor of the volume *Food and the City: Histories of Culture and Cultivation* (2015). Imbert's current research is on urban agriculture and productive landscapes. She continues to engage in research and design practice and recently completed the Square (with Andrew Cruse), a landscape on structure for the Novartis campus in Basel, Switzerland.

In the 2019 *DesignIntelligence* survey publication, Imbert was named one of the 25 Most Admired Educators in the landscape architecture category, in which she was praised for her "high standards in every aspect of the profession—design, literature, research, technology, theory."

"The Knowlton School is uniquely situated culturally, academically, and geographically to become the flagship institution for regional environmental action," said Imbert. "By housing under one roof architecture, landscape architecture, and city and regional planning, the Knowlton School has the opportunity to engage current and future real-world problems at a variety of scales. It has built great momentum with faculty hires, leadership, and initiatives. Now is the time to capitalize on this energy and increase our visibility."



BUILDING COMMUNITIES

ALUMNI KRIS LUCIUS RECONNECTS WITH THE KNOWLTON SCHOOL

Among the last class of students at Brown Hall, Kris Lucius, PLA, ASLA ('04) received his Bachelor of Science in Landscape Architecture at Ohio State, where he graduated *magna cum laude*. In 2008, he received a Master of Landscape Architecture from the Harvard University Graduate School of Design.

Currently a Design Principal at SmithGroup in Chicago, Lucius is a creative lead for a broad range of landscape and urban design projects. These projects include Wanxiang Innova Energy City Block 6 (Hangzhou), South Lakefront Framework Plan (Chicago), Lakeland Medical Center (St. Joseph, Michigan), and Chamberlain Group Headquarters (Oak Brook, Illinois). He also serves as an adjunct professor at Illinois Institute of Technology and has taught at Boston Architectural College.

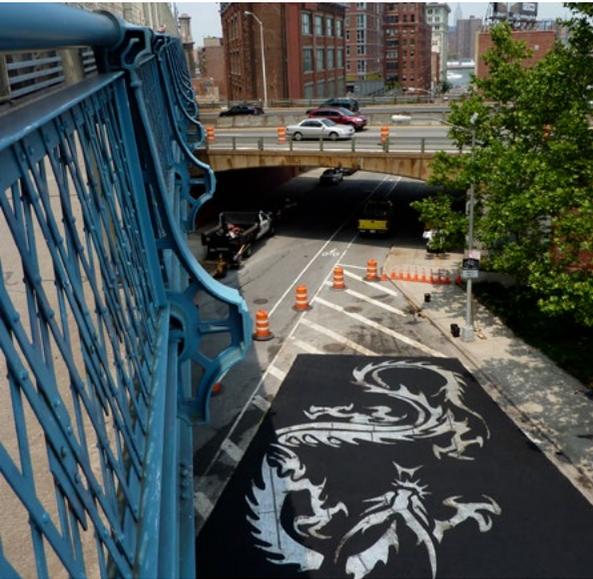
Lucius has remained connected to the Knowlton School through his role as an instructor, as a current member of the Landscape Architecture Advisory Board, and as an Alumni Mentor in the school's Mentorship Program.

To start off, can you tell us about some of your current work at SmithGroup? What projects are most likely to draw your interest?

My studio in Chicago is a team of about 20 landscape architects and civil engineers working within a 1,300-person interdisciplinary

firm. We design landscapes that engage and interest people, ground them in their environment, and shape memories. Our designs do many things at once—they go beyond human enjoyment to mesh with smart, functional site systems that bolster local ecology and reinforce the client's mission. Urban design and park planning are my center of gravity, but I also work in the healthcare, higher education, science and technology, workplace, and cultural practices. We are a curious group and can find interest in any site, any project, anywhere. More likely to draw me to a particular project are the people involved: client, allied professionals, or stakeholders.

I find the greatest reward in the projects that build communities: both the physical green infrastructure of cities and the cooperative spirit that arises from intense community engagement. I recently led the South Lakefront Framework Plan with the Chicago Park District. The Framework Plan composes a future for Chicago's Jackson Park and the South Shore Cultural Center amidst great physical and social change for these historic cultural landscapes. The plan re-stitches the parks' waterways and establishes new connections and a new program to reconcile historic vision with current dynamics. I am proud of the community engagement process we developed for the project; over 800 people attended our first meeting! It



was important to give south side residents agency on decisions made about their park, from whose history many felt dissociated.

SmithGroup is working on several buildings for Advocate Aurora Health in the Lakeview neighborhood of Chicago. Their Illinois Masonic Medical Center campus is squeezed into a dense neighborhood and most building edges have zero-lot-line setbacks so even the smallest spaces have high value for wellness and healing. For instance, we are using a 15-foot transit authority easement to make a garden to be used as a therapy tool for the hospital and a pocket park for neighbors.

During the autumn semester, you co-taught the landscape architecture G3 Southwyck Studio with Associate Professor Paula Meijerink. Can you tell us how your paths

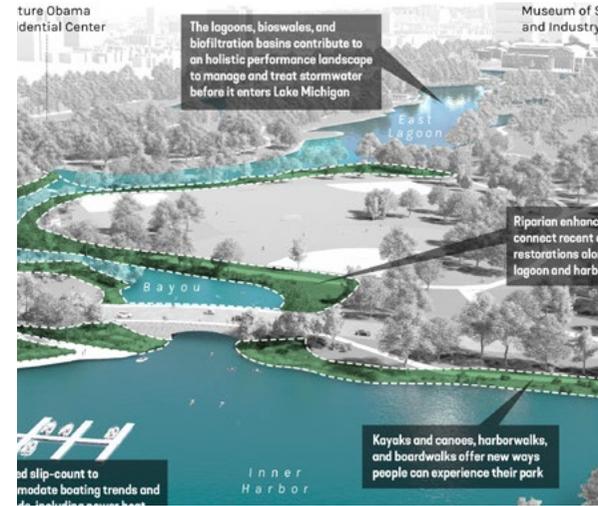
have crossed in the past and how this relationship evolved into this studio?

Paula is one of my heroes and closest friends. She has been a role model for me as a professional, critic, teacher, and as a parent. We met when she was my professor in a studio about asphalt. At the time (and maybe still now), it was radical to have a material-based landscape architecture studio. Her structure for it—successive, rapid-fire ideating, testing, and building—forced the students to work together and with her; bonding over beds of cooling asphalt evolved into a lifelong friendship. Since then, we have worked together periodically.

The Southwyck studio idea was perfect for Paula. An abandoned mall site in my hometown of Toledo, Ohio, Southwyck has interesting adjacencies and a strong, if not eerie spatial presence, like a large inland sea of decomposing pavement. Toledo has been building new parks in unlikely places and is in desperate need of ideas for this once-important, long-vacant site. Her first reaction was to co-teach it together, and within weeks we were developing the syllabus.

Can you comment on how you approached your role as an instructor for this graduate studio? Can you also speak more broadly about the relevance of academic work—much like the Southwyck Studio—in the world of landscape architecture practice?

Teaching has been an important part of my practice since early in my career. It allows me to strengthen muscles that I may not always use in daily professional practice. Teaching makes me a better critic. It forces me to



recognize, understand, and explain my thoughts in a way that is coherent, memorable, and helpful. It also affords me a better view of the context in which I practice, and to be party to discussions about the emerging critical issues that landscape architecture can confront.

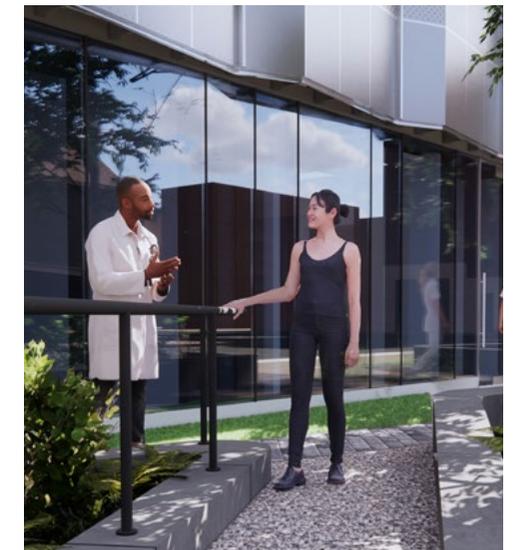
In a studio co-taught by a professor and a practicing professional, it would be easy to fall into a simple set of roles, where Paula would push the students to be bold and crazy and I would reign them in with boring pragmatics. I helped answer the students' questions on cost, constructability, and the structural capacity of specific materials; however, my role throughout was to help them develop the question-asking that will make them better professionals. In design, in graduate school, or really anywhere, I think great teachers are more guides than authorities.

Can you speak to your interest in staying connected to Ohio State, and would you

Left to Right: Street art project Asphalt Tattoo in Brooklyn, NY; rendering of South Lakefront Framework Plan; image of Advocate Aurora Health building in the Lakeview neighborhood of Chicago.

have any advice to our alumni who may be interested in engaging with the school?

Just as teaching makes me a better professional, the program and the students are both strengthened by exposure to practice, and I have found numerous ways to give something of value to the school. In addition to teaching and the advisory board, I am a regular at studio reviews, present my work to classes, and mentor students. Alumni who have an interest in giving back to Knowlton have an opportunity.





A student presents work during a G2 architecture review.



MAKING PLASTIC WASTE MATTER

INTERDISCIPLINARY WORKSHOP MAKES NEW MATERIALS FROM OLD

Disposable plastic never really goes away. An estimated 32% of plastic packaging escapes all waste collection systems. Released into the wild, non-biodegradable plastic objects disrupt urban infrastructure and natural ecosystems. What if this waste—rich in material potential—found new work instead?

Organized by Associate Professor of Architecture Justin Diles, the Making Matter Workshop explored methods for embedding granulated waste plastic into concrete, plaster, and other mineral substrates to make new, expressive composite materials for architecture and design. Students from the Knowlton School, the Department of Art, and the College of Engineering collected waste plastic items like disposable packaging and old toys found on the street. These items were then ground up, producing new forms of raw material from waste.

The workshop was led by artist Melissa Vogley-Woods, an expert in making composite materials for her sculptural work. Among other methods, Vogley-Woods is a master in scagliola, a 17th-century plaster technique used to simulate marble and other variegated natural materials. “Inspired by scagliola’s potential to invent new material effects, the workshop used a variety of techniques—

molding, rolling, slumping, dipping, and pouring—to develop agglomerated surfaces and small artifacts using ready-made molds and found objects,” stated Diles.

The results of the workshop will be polished, scanned, and further studied by Knowlton students enrolled in Plastic Dreams (ARCH 5590), a technology and fabrication course taught by Diles.

The workshop was initiated by Alternative Matter(s), a new interdisciplinary research consortium co-founded by Diles and Professor Yael Vodovotz from the Department of Food Science and Technology. The event was funded by the Bioplastic Alternatives Interdisciplinary Team (BAIT)—a recent recipient of a multi-year grant from the Center of Applied Plant Sciences. The interdisciplinary team includes faculty from Food Science, Horticulture and Crop Science, Agricultural and Biological Engineering, Chemical and Biological Engineering, Chemistry, Architecture, Material Science, and Civil, Environmental and Geodetic Engineering. BAIT seeks to create a new family of bio-based, biodegradable and waste-capture products as alternatives to virgin petroleum-based plastics prevalent in packaging, agricultural, and construction industries.



ALUM JEROME HAFERD WINS ACCESSIBILITY COMPETITION

In partnership with K. Brandt Knapp, Knowlton School alum Jerome W. Haferd (BSArch '07) won the \$10,000 Grand Prize for the #ZeroThreshold Design Competition for their entry "SIDE by SIDE : a multi-use, multi-abled commons."

#ZeroThreshold is part of an architecture and urban design initiative to celebrate accessibility as a generator of design, and for the Old Brooklyn neighborhood of Cleveland, Ohio to build a proposal that takes the lead in the future of this movement. The competition was created by the nonprofit North Coast Community Homes, which operates more than 200 group homes for more than 1,000 developmentally disabled people in Northeast Ohio. The Cleveland Foundation provided \$149,000 in funding. North Coast Community Homes is currently raising money to build one or more of the winning designs in the Old Brooklyn neighborhood.

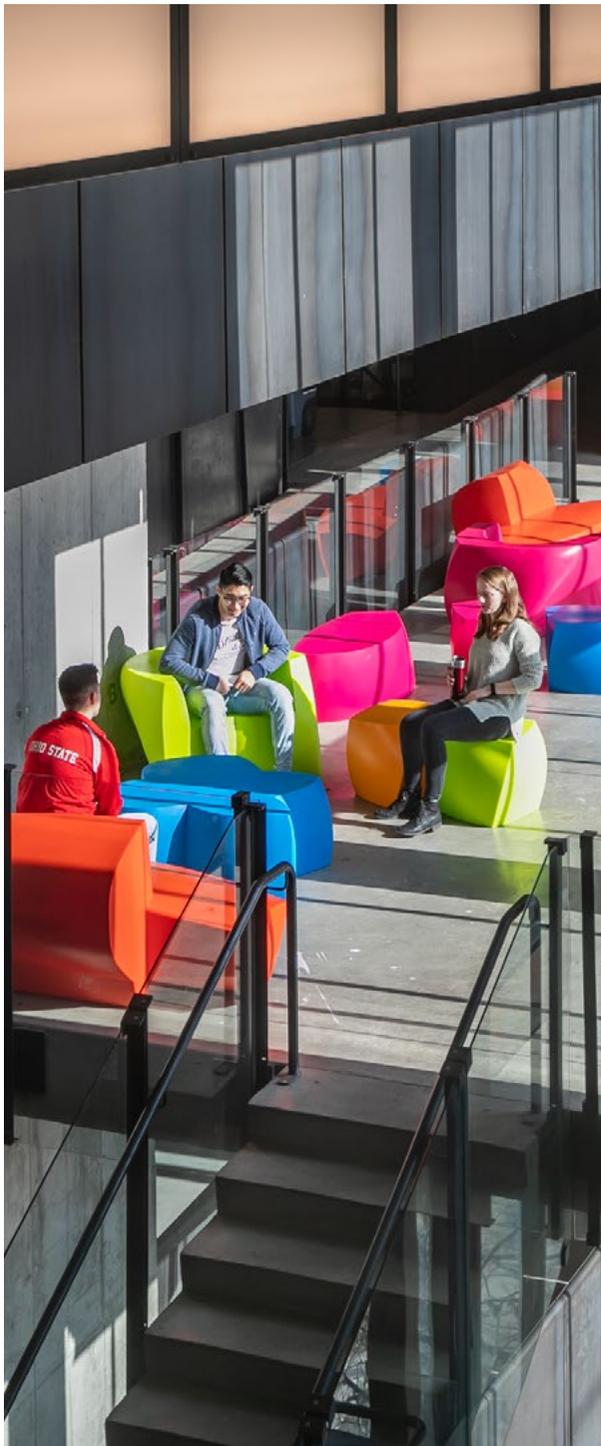
The BRANDT : HAFERD winning entry proposes an accessible urban prototype that incorporates communal cooking, gardens, and learning. Designed for intergenerational living, the project transforms an empty double lot and adjacent vacant lot into a mixed-use project to combat social isolation and provide an innovative new accessible living typology. Substandard housing, lack of access to green space, and lack of social connectedness affect a wide variety of neighborhoods and demographics, including Old Brooklyn. Rather than tackle these issues in isolation, "SIDE by SIDE" offers a holistic

design to address and improve accessibility and community-based issues faced by both the alter-abled and able-bodied alike.

The competition drew entries from nearly 100 architects and designers from Austria, India, Israel, Italy, Sweden, and the United States. The prize was announced at an awards ceremony at the Ariel International Center in Cleveland on September 19, 2019.

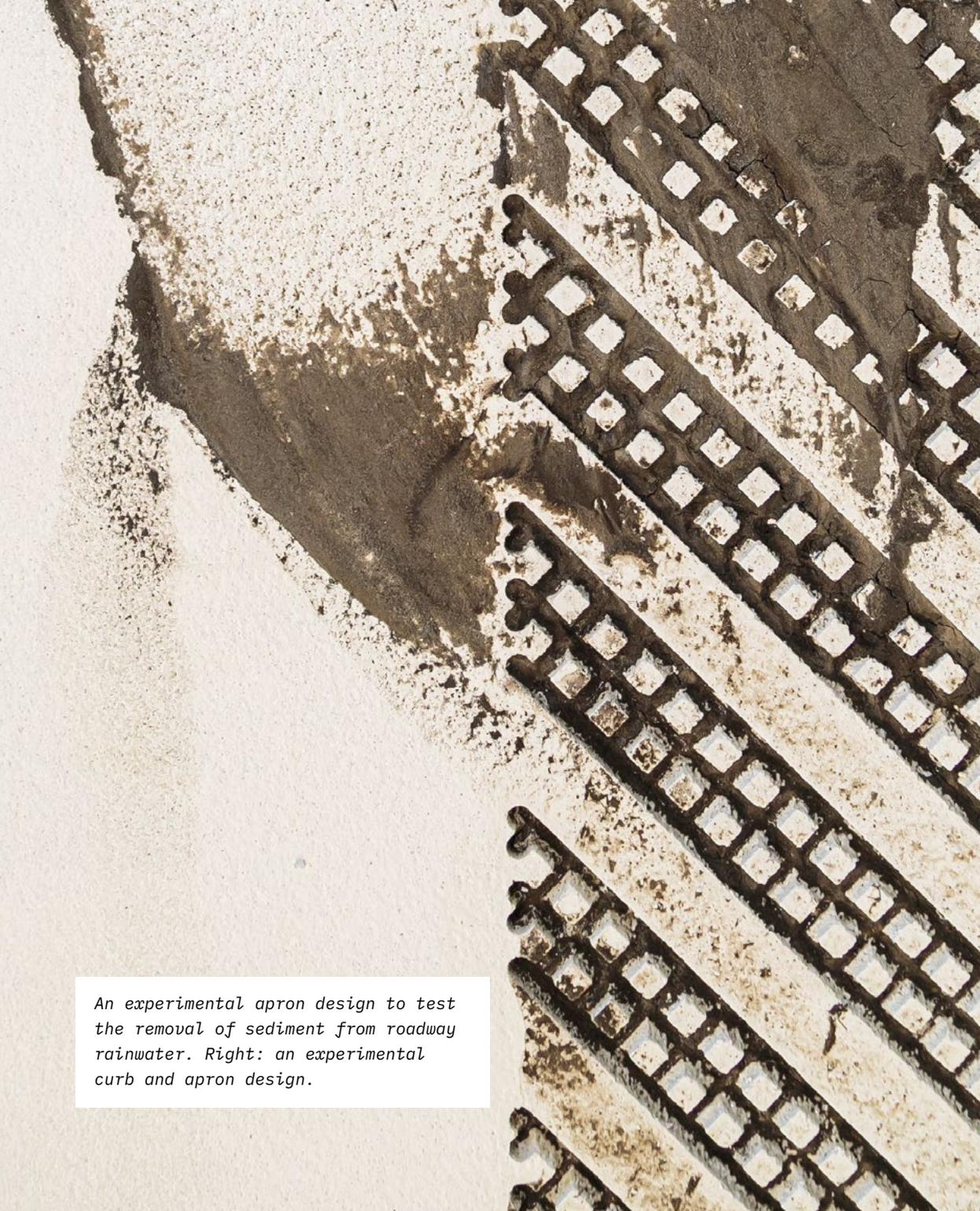
BRANDT : HAFERD is a Harlem-based architecture and design studio led by Jerome W. Haferd and K. Brandt Knapp. Their body of work includes academic research and a range of built projects—from the domestic to the workplace to the urban. *Performance and play, abstract vs. built form, nature and territory, and the individual vs. collective* are some of the interests explored in the practice.





Clockwise from left: students in new Knowlton furniture; students gather in the planning studios; student ambassadors in the south cut-out garden; pumpkin-carving skills at SCASLA event; Todd Gannon addresses students on the Big Stairs.





An experimental apron design to test the removal of sediment from roadway rainwater. Right: an experimental curb and apron design.

CURBING SEDIMENT

PROTECTING WATERWAYS FROM HARMFUL TOXINS

Rain pouring down over the road can create more than just dangerous driving conditions. Fine particulate that accumulates on roadways is washed off those roadways into storm drains that connect to local waterways. These vehicle-borne particles—often called “first flush toxins”—contain bits of copper, zinc, cadmium, as well as grease and metals. These particles can accumulate and cause catch basin backups that result in flooding, but they can also make their way into the food web and our drinking water.

Halina Steiner, assistant professor of landscape architecture at the Knowlton School, has been researching how concrete curbs, aprons, and gutters may be designed to capture the sediment that collects on the road so it can be extracted before entering the storm basin.

“In the initial stage of our design we looked at various alterations to walkway surfaces,” Steiner said. “We focused on tactile pavement as a point of departure and how we could put cuts in the curb and apron to collect the sediment.”

Twenty different curb and apron designs were tested on 4 foot by 8 foot sheets of milled foam that were sealed with paint. Designs experimented with the density and configurations of cuts into the apron including parallel, perpendicular, diagonal and cross-hatch depressions. “Among cuts into the face of the curb, which included triangular, rectangular, and circular shapes, we found

the square performed best when paired with various patterns on the apron,” said Steiner. The iterative design process also tested the effectiveness of combining different apron and curb patterns, pairing different spacing configurations with apron designs that were offset or fed directly into the curb.

“We’ve proven conceptually that the designs work. Now we need more scientific data.”

Each full-scale curb mock-up was tested by simulating a one-inch storm rain event. Native soil and sand were suspended with a mixer, then pumped across the model. Water sensors located at the inlet and outlet of the curb mock-up checked the volume and turbidity of the water. Water samples were



An exhibit of curb and apron designs made of milled foam. Below: Knowlton students conduct rain simulation tests on curb and apron mock-ups.



collected every two minutes from a collection tub and later analyzed by Ryan Winston, assistant professor in the Department of Civil, Environmental and Geodetic Engineering, to determine the volume of collected sediment.

The project now has a provisional patent. Steiner indicates the plan is to move the project to a more advanced phase where funding opportunities and a pilot program are explored, in coordination with Ohio State's Technology and Commercialization Office.

"We've proven conceptually that the designs work. Now we need more scientific data. We will be expanding the conversation in this new phase and speak with people from ODOT, people who work in road maintenance, and people who specialize in concrete. We'll take any new insights and apply them to the original design."

Funding opportunities will allow a pilot program where the designs can be tested on a real road in an urban environment. This will allow Steiner to see how the designs perform aesthetically, and how they work in real-world weather conditions like snow and with real-world interactions with snowplows and cars.



"The Curbing Sediment project extends my interest in how non-site specific solutions can be applied at a larger scale," said Steiner. "Through my work, I hope to increase the awareness and understanding of hydrology, and to make people more water literate in general."

RELATED

To see video of Professor Steiner's curbs in action and to hear undergraduate landscape architecture student Avee Oabel talk about her role in the project, go to go.osu.edu/oabel

LANDSCAPE ARCHITECTURE PROGRAMS RECEIVE OFFICIAL STEM DESIGNATION

The Bachelor of Science in Landscape Architecture (BSLA) and Master of Landscape Architecture (MLA) programs have been officially approved as STEM (science, technology, engineering, and math) designated fields of study, effective autumn semester 2019.

The STEM designation will allow international students graduating with a BSLA or an MLA to apply for an extension of their Optional Practical Training (OPT) with U.S. Citizenship and Immigration Services. Upon approval, students will be able to gain valuable work experience in the United States for up to 36 months after graduation. This opportunity will support the professional development of international students as well as contribute to the diversity of perspectives in the field of landscape architecture.

OSU
LANDSCAPE ARCHITECTURE
RECEIVES
STEM
DESIGNATION
APPLY NOW TO OUR
BSLA OR MLA



In-studio peer review during Assistant Professor Katherine Jenkins's G1 landscape architecture studio.



LEVELS—MIAMI

KNOWLTON TEAM WINS ULI HONORABLE MENTION

A student team representing all three sections of the Knowlton School was awarded Honorable Mention in the 2020 Urban Land Institute (ULI) Hines Competition for its “Levels—Miami” proposal. In its 18th year, the ULI Competition challenges graduate students to propose a comprehensive design and development scheme for a real, large-scale site in a North American city. A total of 113 teams made up of 565 students competed in this year’s competition.

Unique to the competition is that the five-member teams must have student representation from at least three different disciplines pursuing at least three different degree programs. The Ohio State Levels team was comprised of: Abigail Anacki (MSCRP), Brandon Dornier (MBA), Emily Long (MSCRP), Harshat Verma (MLA), and Jay Schlesinger (MArch).

“The interdisciplinary and interdependent collaboration enabled us to find solutions that would work at multiple levels,” said Verma. “The competition helped me understand the balance needed between all disciplines for a design to be realistic and effective.”

This year’s competition site was an aggregate of 48 parcels across six city blocks in downtown Miami, totaling 11.1 acres of the Wynwood and Edgewater neighborhoods. The competition challenged each team to

envision transforming the site into a thriving, mixed-use, transit-oriented neighborhood.

Over three phases of development, the Levels team project builds out various mixed-used properties such as residential units, office and retail space, and a parking garage around the Florida East Coast Railway transit hub. Sweeping public spaces connect to Miami’s green network to allow a natural flow between neighborhoods, encouraging social relationships that bind communities together.

The Levels project also initiates infrastructure tactics to prepare for and capitalize on global shifts, specifically around the impacts of climate change. Detention ponds at either end of the project act as absorption zones and public spaces during both dry and wet periods. Pedestrian pathways are elevated above projected rising sea levels to create a network of protected connections throughout the development.

“I was very interested in the idea that our development could work while there was flooding, and even celebrate the flooding in a way,” said Schlesinger. “Learning to live with water instead of always working against it may be a better—and almost necessary—idea moving forward with architecture in a rapidly changing climate.”

Students and mentors conduct project critiques prior to submission to ULI competition.



Clockwise from left: 2019 Herbert Baumer Memorial Seminar guests Mark Lee and Sharon Johnston with G3 architecture students; Glimcher Distinguished Visiting Professor Dominique Ghiggi with students; exhibitors from the Rejected exhibit during a Loose Talks presentation; Fulfilled Symposium; Trott Distinguished Visiting Professor Jason Siebenmorgen; visiting critic Mohamed Sharif; Homing The Machine symposium.



Assistant Professor Kareem Usher assists a student.

CREATING CITIES

INNOVATIVE EDUCATION IN CRPLAN 2110

Instructors in CRPLAN 2210 are using a novel and intensive approach to teach undergraduate students how to design innovative cities and regions. Using the computer simulation technology, *Cities: Skylines*, students create a city from scratch—building from the ground up an urban environment that harnesses planning-focused sectors such as economic development, housing, community development, and transportation.

“At the time I was a planning student, there were limited options for technology in planning instruction. ArcGIS was basically the only option,” commented City and Regional Planning Assistant Professor Kareem Usher on the popular platform for working with maps and geographic information.

“Each student has exceptional agency to develop the vision of his or her own city.”

City and Regional Planning Assistant Professor of Practice Don Leonard, who co-teaches the course with Usher, indicates that *Cities: Skylines* is a new technology that allows students to understand the complex interdependencies that govern planning sectors by involving them as the chief decision-

maker. “Municipal government is comprised of different actors, such as city planners, area commissions, city councils, and the mayor’s office,” said Leonard. “In *Cities: Skylines*, all these bodies that participate in the decision-making process are collapsed into the simulation’s tool kit, mouse, and dashboard. Each student has exceptional agency to develop the vision of his or her own city.”

Before students can begin creating cities, they must learn the elements that shape the urban environment. Offered as an introductory-level course, CRPLAN 2110 provides a strong foundation through an overview of planning history, tools, and both evolving and competing theories. “We offer a mixed-method approach in the course around three interdependent pedagogies—the lecture, fieldwork, and the computer simulation,” commented Leonard.

The course opens with lectures that cover the big sectors of planning, such as housing, social justice, environmental sustainability, urban design, economic development, and transportation. Students then study and query these components through fieldwork and team blogging. “Walking tours are a valuable way to make sense of cities and towns,” commented Usher. “During these excursions, I highlight the following elements: landmarks, pathways, edges—or where buildings and streets align, and nodes, which examine intersections of major areas. Students then

Planning students in CRPLAN 2110 design cities using the simulation technology, Cities: Skyline.



take what they see and incorporate these elements in their city-building simulations.”

Once operating within the computer simulation, students see first-hand how their decisions are subject to forces and interdependencies across myriad systems that include water, housing, energy, and transportation. “We challenge the students in the simulation to identify those strategies that allow a city to create a unique sense of place,” said Leonard.

As city populations grow, an increasing tax base provides more resources for a student to develop the urban experience. But residents can also express satisfaction and dissatisfaction

with their quality of life. “If a residential zone is created too near a landfill and citizens leave the city as a result of this development, the tax base is reduced and a student has fewer resources to grow their city,” commented Usher.

“There is a bit of a delicate balance between developing a city and keeping residents happy,” commented Leonard, who indicated that the simulation allows students to fine-tune their cities as its size and services expand. “You can see the issue of environmental sustainability come into play if a city is reliant on coal plants as a cheap method of providing power. This may result in increased pollution and unhappy residents, but the simulation allows

you to evolve your industries and in doing so clean up a city’s environmental impact.”

CRPLAN 2110: Creating Innovative Cities and Regions is a core course in the planning section’s bachelor degree program. Usher indicated that he is aware of many students who have decided to major or minor in planning as a result of taking the course. Leonard offered that the course also includes students who are outside the discipline but are curious about city and regional planning: “It allows non-planning majors to experience the built environment with a new lens.”

PLANNING DOCTORAL STUDENT WINS FIRST PRIZE FOR RESEARCH

City and Regional Planning doctoral candidate Yujin Park won First Prize in the Social and Behavioral Sciences Section at the Hayes Graduate Research Forum. The title of her oral presentation was “The Role of Tree and Building Shades in Neighborhood Thermal Control: A Three-Dimensional Digital City Approach.” The Forum is organized by the Council of Graduate Students and the Graduate School.

Park was previously awarded a Presidential Fellowship for her dissertation “Three Essays on Sustainable and Resilient Green Infrastructure Planning: Green Mobility, Accessibility and Microclimatic Moderation.” Embodying the highest standards of scholarship at Ohio State, the prestigious award provided Park the opportunity to focus full-time on her microclimatic research.

Park will begin a tenure-track assistant professor position in the Department of City Planning and Real Estate Development at Clemson University in autumn of 2020.





Senior architecture students present during the 2019 Gui Competition.



Carrick W. Reider wins the Golden T Square at the 2020 Fashion Schau.

PLAY ON DISPLAY

THE 2020 FASHION SCHAU

The theme of *play* found literal and extravagant interpretations in a spectacle of beautiful fabrications and glam theatrics at this year's Fashion Schau. A parade of twenty-three models showcased the coutourial panache of student designers from the architecture and landscape architecture sections of the Knowlton School at the annual charitable event.

Now in its ninth year, SERVitecture's 2020 Fashion Schau raised \$1,810 for Dress for Success Columbus, the local chapter of a national non-profit organization that provides women with workforce readiness tools and services.

Eschewing the futuristic palette of last year's show, the evening's stylings opened in a haze of nostalgia as designers riffed on the play-toy accessories of a youth remembered. Mixing minimalist and maximalist references, the runway was a triumph of billowing fabric and slim silhouettes, tulle poufs and sleek crinolines that doubled-down with whimsical accents in a play of shimmering surfaces and dimensions.

Designer and model Marley Renner wore a two-piece slip assembled from a forty-five-gallon garbage bag, an evening shawl made of cling wrap, and a cereal box accessorized into a neck collar for a street art aesthetic of giddy abandon. Avee Oabel fashioned a shoulder-to-waist bodice and large trailing skirt from a month's worth of collected receipts in a playful critique of lavish overspending.

Autumn Harvey's singular garment—a cloud composed of paper airplanes, origami cranes, feathers, and pink lemonade—was a rebuke to society's fashion frameworks of flattering, slimming, and impressing.

"The craft keeps getting better. The imagination keeps getting better," commented nine-time juror and Professor of Architecture Jacquelyn Gargus as she announced the evening's winning designs. The Golden T Square, the Schau's top honor, went to Carrick W. Reider, a senior double-major in Architecture and Italian. "The design was very original and exquisitely crafted," stated Gargus on the unanimous choice for first place by the five-person jury.

Accentuating the gestural flourishes that traditionally accompany runway presentations, Reider's two models enacted a loose interpretation of the Harlequinade that paired the trickster Harlequin and Pierrot, the sad clown. After a comic de-sashing, the two models flung open their outwardly drab kaftans to expose colorful rainbow diamond checkers and reflective strips in a sartorial reveal that garnered a thunderous response from the full-capacity crowd.



OUT OF TOWN

BETH BLOSTEIN AND BART OVERLY WIN AIA COLUMBUS HONOR AWARD

Knowlton School Professor of Architecture Beth Blostein (BSArch '91) and Lecturer Bart Overly (BSArch '91), principals of Blostein/Overly Architects (BL/OV), received an Honor Award for Out of Town at the 2019 AIA Columbus Architecture Awards. This year's program honored 10 local projects, including two Honor Awards, as the best designed buildings in Columbus.

Completed in fall of 2018, Out of Town is located in the neighborhood of Franklinton, Columbus's first settlement which is currently undergoing significant revitalization. Constructed on 0.8 acres on Town Street and just 700 yards "out of town" from the downtown riverfront, the completed project is a 45-unit apartment building. It lives within a gritty and emerging arts district, yet is adjacent to a long-established single family neighborhood. BL/OV considers the project to be an extension and inhabitant of both conditions.

The project team, which included Brian Polgar (MArch '15), wished to respect and embody the history of the neighborhood as a way to create a unique, architectural identity. BL/OV also wanted to register the project's relationship to the broader context of the city and to capitalize on the desires of the demographic for which this project is aimed, specifically the demand for self-identity and variety.

Embracing this apparent contradiction as a design challenge, BL/OV was able to synthesize Franklinton's historic typologies, where the roof of Out of Town transforms from a gable to a saw-tooth. Then, by accepting and layering the repetition of common parts (windows, balconies, party walls), a lazy registration between elements is produced. This results in "typical" plan with "atypical" spatial characteristics on the third floor. The overall form has a vague similarity to a series of subtly differentiated row houses thus masking the suburban model of the 3-story flat and resonating with the specifics of Franklinton.

"This is an interesting variation on the townhouse typology that puts forth a new language that is still contextual. The drawings and diagrams were extremely compelling," commented the jury on Out of Town. "We enjoyed the playfulness of the design and the tangible expression that diversity and forward-thinking interpretation are valuable in architecture."

Metropolitan Holdings is the client/developer for the \$4.1 million project that occupies 33,000 square feet.



BL/OV's award-winning building located in the Franklinton neighborhood of Columbus, Ohio.



Clockwise from left: Planning faculty and students propose changes to the undergraduate curriculum; students use discarded plastics to create new composite materials; Homing the Machine symposium; a student drawing in the south cut-out garden; planning students in studio; landscape architecture students design tree plans; early work on Zach Cohen's 3D printed concrete columns; G3 landscape architecture studio; ULI Competition project.





Privy 2: Biosolids and You installation on the Ohio State campus.

PRIVY 2

HUMAN WASTE AS RENEWABLE RESOURCE

A lesson in environmental stewardship and sustainability is rooted in a field of corn located in the southwest courtyard outside the 18th Avenue Library on the Ohio State campus. Deeply rooted, in fact. Com-Til, a nutrient-rich compost made from residual bio-solids from City of Columbus wastewater treatment plants, was amended to the soil at the site to provide slow-release fertilization. As ears of corn golden and mature, the demonstration garden is bringing awareness to campus of the cycle of waste transformation.

“This project is basically about how we can take something that is typically deemed waste—in this case bodily waste—and show how it can be transformed into something we consider a resource,” commented Nick Kawa, assistant professor in the Department of Anthropology. This locally-sourced fertilizer is already used in liquid form by large-scale farmers for crop production around Columbus, as well as in landscaping projects around the Ohio State campus.

Kawa partnered with Knowlton School faculty Forbes Lipschitz, assistant professor of landscape architecture, and Justin Diles, associate professor of architecture, to create the installation Privy 2: Biosolids and You that includes rows of corn surrounding a pavilion. The project was funded by a 2018 Initiative for Food and AgriCultural Transformation (InFACT) grant.

“You have an urban infrastructural system in Columbus supporting large-scale conventional agriculture in the periphery of the city.”

“Agriculture is the largest anthropogenic footprint in the world. It occupies over 40% of the earth’s surface. This includes the fields, pastures and farms that feed us,” stated Lipschitz. She indicates, however, that many people do not really understand this footprint and how its impact on the environment can be improved. “What I think is interesting about bio-solids is that you have an urban infrastructural system in Columbus supporting large-scale conventional agriculture in the periphery of the city. This public installation is a new way to represent this relationship,” Lipschitz added.

Nestled among the corn stalks is a pavilion designed and fabricated by Diles. Consisting of a tower, a canopy and a lounger, the pavilion references the garden’s message of repurposed material, using recycled PET foam from recycled water bottles in its structural panels. The foam sheets were heat formed



and shaped, and made structural with a composite of resin and fabric reinforcement.

The consolidated girder-like structure allows a range of interpretations, especially the yellow trusses in the tower and canopy. In the context of a garden that utilizes bio-solids, these rib-like elements have suggested plumbing infrastructure and even intestines to observers.

“I tried to keep the form ambiguous so people can read into it what they see while also keeping the structure responsive to the site and the garden. The scale and height of the pavilion relate to the height of mature corn, the tower announces the project from a distance and the lounge creates an area to enjoy the garden,” explained Diles.

Providing a foundation for the pavilion are concrete pavers with an embedded top layer of Com-Til, suggesting a conceptual link between this agricultural resource and common urban construction material. Fabrication of the pavers and the architectural pavilion, along with the planting of the garden, involved faculty and students across the disciplines of anthropology, landscape architecture and architecture.



Left to right: Knowlton School Associate Professor Justin Diles and Assistant Professor Forbes Lipschitz, and Department of Anthropology Assistant Professor Nick Kawa; rows of corn surrounding the pavilion in autumn; construction of the pavilion on the Knowlton Hall West Patio.



RELATED
 Field Futures, Professor Lipschitz’s Banvard Gallery exhibit, explores the standardization of agricultural field systems. Learn more at go.osu.edu/field-futures

LANDSCAPE ARCHITECTURE AND PLANNING AMONG TOP-RANKED PROGRAMS

Knowlton’s Landscape Architecture ranked 5th among undergraduate programs and 11th among graduate programs nationally in *DesignIntelligence’s* Top 25 Most Admired Schools for accredited landscape architecture programs. The school’s architecture graduate program ranked 27th nationally. In the 35+ Graduates category for most hired from landscape architecture schools, the school’s landscape programs ranked 6th in the country. From school’s graduating 20 to 49 graduates, the architect programs ranked 3rd according to the *DesignIntelligence* 2019 School Rankings Survey.

Planetizen’s 2019 Guide to Graduate Urban Planning Programs ranked Knowlton’s Master of City and Regional Planning 15th nationally as ranked by planning educators. *Planetizen* highlighted the variety of program specializations available at Knowlton.



2019 Glimcher Distinguished Visiting Professor Dominique Ghiggi conducts a review of landscape architecture student work in studio with Landscape Architecture Section Head Dorothee Imbert.





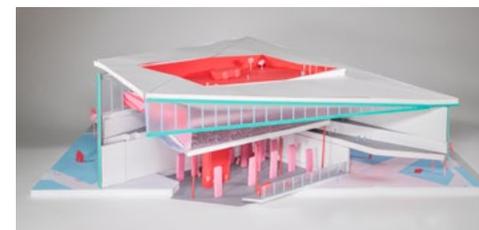
GUI COMPETITION 2019

REDESIGNING THE LA BREA TAR PITS MUSEUM

“This project staked a strong claim about the nature of an institution,” commented Keoni Fleming, Knowlton School lecturer and senior associate at Schooley Caldwell, prior to the announcement of the 2019 Gui Competition winner. “The programming and spatial resolution work—all of the conceptual ideas were carried out in terms of the building design down to the material strategy used on the facade. The comprehensiveness of that treatment was really well done.”

Following comments from the other jurors, “Design and Architecture” podcast host Frances Anderton announced Sydney Strawser, Kristen Perng and Rachel Schmitmeyer for their winning project in the competition held annually in the senior Architecture Design Studio.

This year’s competition prompt was to reconsider the design of the existing La Brea Tar Pits Museum and its adjacent landscape located along Wilshire Boulevard, one of Los Angeles’ major thoroughfares. The program comprised 85,000 sq. ft. divided among public and private operations. The 36,800 sq. ft. of public area included space for exhibits, theaters, classrooms and observation pit viewing platforms. The remaining footage detailed private operations including laboratories, specimen storage and staff offices.

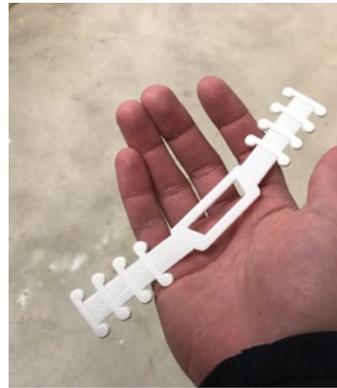


Left to right: The winning project from the 2019 Gui Competition, which asked students to redesign the existing La Brea Tar Pits Museum; model photo of Gui Competition winning project.

This year’s winning project carved away the museum’s monolithic mass by shearing exterior surfaces to create covered outdoor spaces and points of entry, sculpting the form into a building that accommodates multiple publics. The team also reimagined the facade with a scaled-up image of hot pink travertine.

“A prominent design feature of our building is the path that cuts through the first floor,” stated Schmitmeyer, pointing to the team’s effort to bring both the exhibition spaces and the often unseen research activities into prominence. “The path that separates public and research amenities also unifies them with glass facades facing along the path,” added Perng. “This creates a visual connection between the two programs and allows for views into the specimen storage and viewing research. These acts of transparency aim to provide visitors with a greater knowledge and appreciation of the research being conducted.”

The competition included twelve finalists projects. Rounding out the top prize winners were Emma McMonigal and Marly McNeal (Second Place), Dylan Hart and Pierce Caldwell (Third Place), Yuyan Wang and Courtney Masters (Honorable Mention), and Kate Lubbers and Yunhao Zhong (Honorable Mention).



Above clockwise: Knowlton Hall closed to public; containers of PPE; the 'halo' for protective face shields; assembled clear plastic protective face shields. Opposite: face shield headbands in 3D printer

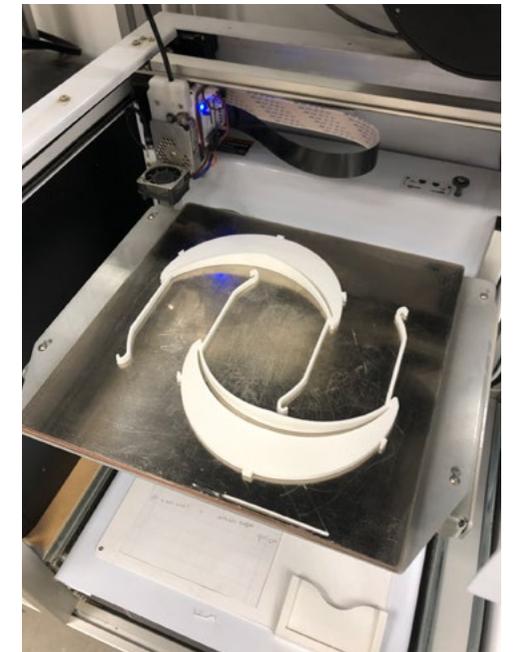
RESPONDING TO COVID-19

To safeguard the health and well-being of the Ohio State community during the outbreak of the coronavirus (COVID-19) pandemic, the university transitioned to virtual instruction on March 23. Operating under Ohio State's "Continuity in Instruction" mission, Knowlton School faculty and students adapted to an academic environment of on-line learning for the remainder of spring semester.

Utilizing 3D printers and laser cutters, the Knowlton School contributed to the College of Engineering's efforts to produce personal protective equipment (PPE) for Wexner Medical Center personnel. Shop/Digital Fabrication Coordinator Michael Baumberger supervised the production of face shield components—namely the 'halo' or headband and the clear plastic protective shield itself. This early effort aided in the supply of PPE while the college prepared an injection mold process that would allow high-volume manufacturing. When this fabrication process was operational, the Knowlton School's center space was used as a workspace for the assembly and packaging of face shields so they could be efficiently inventoried and distributed by the medical center.

To help graduating students navigate the job market in uncertain times, each section offered in April an on-line panel discussion featuring alumni and faculty. Central to the discussion was how each of the disciplines may adapt their practices to respond to design needs in a post-pandemic world, with specific attention to issues such as social distancing and transportation.

Following the completion of final exams and reviews on-line, the Knowlton School hosted a virtual commencement ceremony for graduating students, their families, and Knowlton faculty and staff on Sunday, May 3rd. After his opening comments, Director Michael Cadwell welcomed three graduating students—each representing one of the school's sections—to deliver reflections on the academic year: Emily Long, MCRP '20; Colin Hall, BSCR '15, MLA '20; and Kristin Perng, BSArch '20. The university's virtual commencement, with Apple CEO Tim Cook delivering the commencement address, followed the Knowlton School's event.





**GALEN PARDEE,
HOWARD E. LEFEVRE '29
EMERGING PRACTITIONER
FELLOW**

Galen Pardee was the Howard E. LeFevre '29 Emerging Practitioner Fellow for 2019–20. The LeFevre Fellowship is awarded annually to an architect who is beginning to make their mark on the profession and provides the practitioner with a platform to develop their research over the academic year.

Galen Pardee's work focuses on the material and logistical underpinnings of architectural practice and form, seeking to understand architecture's agency within ecosystems of political, social, environmental, and material regulations, as well as architects' ability to enact change within these environments. His work asks: How can architectural tools and technologies inform both design practice and public advocacy in the face of climate change?

"I will present my research on the environmental and material mechanisms of the Great Lakes Watershed, focusing on developed analytical tools (both physical and digital) and design proposals for the region," explained Pardee. "Building on my earlier research on Singapore's territorial expansion practices (Territories of Territory Extraction), I intend to explore the Watershed as a political entity, an infrastructural environment, a testbed for architectural speculation, and a platform for drawing architectural agency."

Galen Pardee is a designer, educator, and researcher based in New York City. He received his BA from Brandeis University and an MArch from Columbia University Graduate School of Architecture, Planning and Preservation (GSAPP). Since graduating, he has taught in the advanced design studios at Columbia University and led design teams for institutional and cultural clients in New York City and California. Focusing on the intersection of architecture, geopolitics, material economy, and the character of designed objects, his work has been exhibited in both the United States and overseas. His previous research, Territories of Territory Extraction, explored the mechanisms and methods of the sand mining industry in Southeast Asia, and Singapore's land reclamation apparatus. Pardee's work has been supported by the Graham Foundation for Advanced Studies in the Fine Arts, Columbia University, and housed in the Columbia GSAPP Incubator at New INC.

**ZACH COHEN,
YESSIOS VISITING ASSISTANT
PROFESSOR**

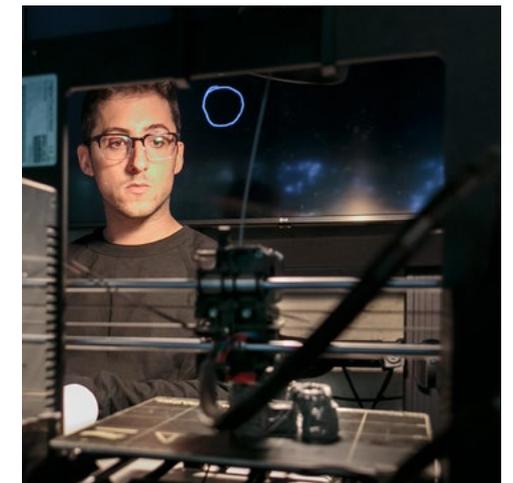
Zach Cohen was the Yessios Visiting Assistant Professor for 2019–2020. The fellowship provides a residency to investigate a specific project related to emerging digital fabrication tools and related technologies, and to produce within the fellowship period a lecture, exhibition and workshops concerning that work.

Cohen earned his Master of Science in Architecture Studies at the Massachusetts Institute of Technology (MIT) in 2018, where he received the Arthur Rotch Special Prize for Academic Achievement. He was a researcher at the MIT Self-Assembly Lab, and taught courses in digital fabrication and design at MIT and the Wentworth Institute of Technology. He also earned a Bachelor of Architecture with highest honors from Carnegie Mellon University.

Prior to his study at MIT, Cohen practiced at nARCHITECTS, Steven Holl Architects and Marvel Architects in New York. He recently co-founded his own architectural design practice called commoncraft, which is based out of Brooklyn, New York.

Through his research and practice, Cohen has cultivated a strong interest in conducting material investigations and philosophical inquiries through digital fabrication. He is specifically interested in methods of digital craft and the sociomateriality of architect-machine interactions. He has explored these curiosities through the development of a novel architectural design approach called "machine delay fabrication," which he will evolve during his residency project at the Knowlton School.

Machine delay is the time taken by a machine to do its work; it is a phenomenon found in all machines. "Machine delay fabrication makes visible this latent, yet ubiquitous, phenomenon and our unknowing acquiescence to it. Further, and more importantly, it proposes machine delay as a technique to materialize the temporality of digital systems," explained Cohen. "Once these delays are materialized, architectural designers can work with them in order to speculate on emergent material processes, alternative digital aesthetics, and reconfigurations of architectural design workflows."





Transit-oriented development (TOD)

- Qualities of TOD
 - Easy and safe to get where you need to go on foot
 - Housing and business mixed together
 - Easy to get to public transportation
 - Public transportation gets you where you need to go outside of your neighborhood
- Common way to develop along corridors

Planning students address the issues of corridor planning and low-income residents in Central Ohio at the Hazel Morrow-Jones Charrette.



An overhead view of the installation of Drawing Fields.

DRAWING FIELDS

OUTPOST OFFICE WINS 2020 RAGDALE RING

Outpost Office, an architectural practice co-directed by Knowlton School Assistant Professors of Architecture Ashley Bigham and Erik Herrmann, won the eighth annual Ragdale Ring Competition for their design, Drawing Fields. Their proposal is a contemporary interpretation of the original Ragdale Ring garden theatre designed by architect Howard Van Doren Shaw in 1912.

Embracing a design approach that celebrates the ring as a temporal condition of performance, Drawing Fields will utilize GPS controlled field marking robots to create a series of site-specific drawings or paintings produced throughout the Ragdale campus at 1:1 scale. Visitors will engage the installation as large scale, occupiable paintings in individual clearings or dynamically weaving through the entire Ragdale site.

The design is time-based, mobile, and fleeting. Eventually, Drawing Fields disappears with only rain, sun, growth, and time. There's no waste, no toxins, and no messy clean-up. In the matter of a few months, the site is ready for the next ring.

"Drawing Fields is an expansive, minimally invasive solution that responds to the extraordinary context of 2020," comments Jeffrey Meeuwssen, Ragdale Foundation Executive Director. "The project invites numerous opportunities for programmatic reinvention, collaboration, and education. It addresses our present-day concerns of

physicality, public space, and engagement while embracing the question that is central to this competition—"What is Architecture?"

Bigham and Herrmann acknowledge that COVID-19-era social distancing will affect access to the Ragdale site, and they are working with the Foundation to understand how to address concerns of access and engagement through their proposal.

"Our current plans call for limiting site access to essential personnel and performers," commented Herrmann. "The performances will be filmed and broadcast online for the larger Ragdale community. We're placing a real emphasis on how this story might be told by collaborating not only with the performers but with cinematographers and filmmakers renowned for their approaches to place-based storytelling."

Installing Drawing Fields on the Ragdale campus will also be affected by the pandemic. While the conventional design-built residency of past installations is impossible this summer, Outpost Office views the use of robots as an advantage in minimizing on-site labor. "Our plan is to conduct our installation over the course of several weekends. We'll begin with modest tests of the robot's functionality and each monthly installation will increase in scope and complexity. The final performance will include elaborate patterns, drone photography, and movement artists," said Bigham.

ALUMNI ACHIEVEMENT



SCHMALENBERGER & WHITE RECEIVE DISTINGUISHED ALUMNI AWARDS

Timothy Schmalenberger, FASLA (BSLA '80), Senior Managing Principal of MKSK, and Michael White, AIA, IIDA (BSArch '88), Managing Director and Principal at Gensler in Los Angeles, were presented with College of Engineering Distinguished Alumni Awards for career achievement at the 2019 Alumni Awards Reception. The award recognizes distinguished achievement in one's profession through significant inventions, important research or design, administrative leadership, or genius in production.

SULLIVAN, TANNEY, AND WISEMAN NAMED AIA FELLOWS

Knowlton School graduates Terry Sullivan (BSArch '77) of Schooley Caldwell Associates, Joe Tanney (BSArch '84, MArch '87) of Resolution: 4 Architecture, and Ken Wiseman (BSArch '76, MArch '78) of CannonDesign, have been elevated to the prestigious College of Fellows by the American Institute of Architects. One of the highest honors the AIA can bestow upon a member, elevation to fellowship recognizes architects who have made significant contributions to the profession and society.

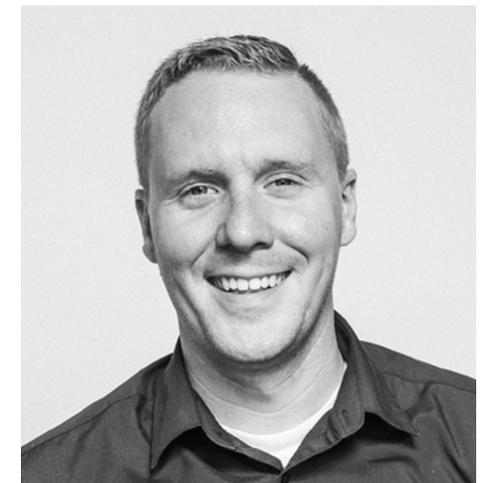


MATT TODDY NAMED AIA STRATEGIC VISION DIRECTOR

Matt Toddy, AIA, (BSArch '11, MArch '13) has been named the 2020–2021 Strategic Vision Director for the AIA National Young Architects Forum. The Young Architects Forum engages recently licensed architects in leadership to become agents of change within the Institute and the profession overall and inspires professional growth among recently licensed architects through fellowship within the Institute. Toddy is an architect at Design Collective in Columbus, Ohio and a mentor in the Knowlton School Mentor Program.

MURDOCK RECEIVES MERITORIOUS SERVICE AWARD

William Murdock (MCRP '99), Mid-Ohio Regional Planning Commission Executive Director, received the Dean's Meritorious Service to Students Award for his dedication in combining student mentorship and employment to shape and serve Ohio's cities and towns, creating vibrant and equitable communities. Presented by the College of Engineering, the award recognizes an individual or group from outside the Ohio State community for exemplary service to students within the College of Engineering. Murdock is also a mentor in the Knowlton School Mentor Program.



ALUMNI ACHIEVEMENT



JENNIFER RITTLER NAMED TO COLUMBUS BUSINESS FIRST 40 UNDER 40 CLASS

AIA Columbus Director and ARCHway co-founder, Jennifer Rittler, AIA, (BSArch '08) was included in this year's *Columbus Business First 40 Under 40* class. The awards program celebrates career achievements and impressive community service for emerging talent in Columbus, Ohio. After working at Gensler in Chicago, Rittler is now a project architect with Moody Nolan. She also serves in the Mentor Program at the Knowlton School and has hosted job shadowing at Moody Nolan for Knowlton students.



SHINE AND BANARJEE INITIATE BIPOC COALITION

Asya Shine (BSArch '17) and Andre Banarjee (BSLA '18) initiated the formation of the Black, Indigenous, and People of Color Knowlton Coalition (BKC), comprised of alumni, current students, and faculty of the Knowlton community. The group's stated goal is to engage with school leadership to address and rectify systemic racism in pedagogy and the academic experience. Among other initiatives, the group advocates for the expansion of recruitment and retention of BIPOC students at Knowlton.

CORRIN WENDELL RECEIVES PEG AND OTTO SCHMID AWARD

Corrin Wendell (BSArch '04 & MCRP '07) was the 2019 recipient of the Peg and Otto Schmid Award from the Minnesota Chapter of American Planning Association (APA). The award recognizes a mid-career individual or group of individuals who have made significant contributions to planning in Minnesota. Wendell serves as Chair of the Executive Board for the Women & Planning Division of the APA, and is the Founder and Executive Director of YEP! Youth Engagement Planning, a non-profit organization focusing on teaching youth K-12 about urban planning.



RAY NIX RECEIVES 2019 AAREP COMMUNITY IMPACT AWARD

Ray Nix (BSLA '92 & MCRP '94) received the 2019 Community Impact Award at the 16th Annual African-American Real Estate Professionals Awards Gala. Nix is founder and chief executive of UrbanMatters Development Partners, a real estate development and neighborhood revitalization firm that specializes in affordable housing. He is also the founder of NIXDEV, a Maryland based real estate development and advisory firm focused on the strategic planning and development of signature mixed-income housing.



FACULTY RESEARCH



PARSCHER AND DAVIS RECEIVE GRANT TO STUDY HISTORICAL AGRARIAN SPACES

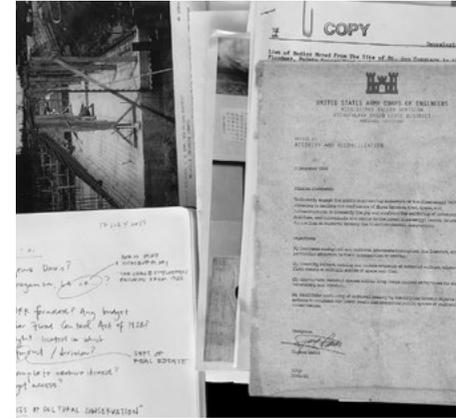
Assistant Professors of Landscape Architecture John Davis and Justin Parscher will be co-principal investigators for Agrarian Forms, an InFACT-funded project that will study historical agrarian spaces.

The project will explore historical agricultural practices and their linked landscapes. The research will connect genealogies of landscape form across time and space, investigating how agrarian landscapes came into existence, what social configurations enabled those forms, and how certain landscape types persisted and transformed over time. The research group includes faculty from history, landscape architecture, anthropology, geography, and sociology.

GANNON WRITES “BEAUTY, VALUE, AND JUSTICE IN FEDERAL ARCHITECTURE IN AMERICA”

Architecture Section Head Todd Gannon responded to the draft executive order “Making Federal Buildings Beautiful Again,” that would effectively mandate “the classical architectural style” for U.S. federal buildings.

Gannon’s article appeared in *The Architect’s Newspaper* in February and argues that the MFBBA would set an extremely high bar for the approval on non-traditional designs, and exclude outright Brutalism, Deconstructivism, and their derivatives. Gannon argues instead that progressive architecture signals that the brilliance of American democracy issues from its accommodation of periodic reinvention, and that we should draw on the finest contemporary American architectural thought to help us determine the best way forward.



CHERAMIE CURATES AFTER THE GREAT FLOOD EXHIBIT

After the Great Flood: Recovering Impossible Histories of the US Army Corps of Engineers, an exhibit co-curated by Landscape Architecture Section Head Kristi Cheramie and Matthew Seibert, was on display during the fall semester at the University of Virginia.

The exhibit combines archival and speculative documents from the U.S. Army Corps of Engineers during the organization’s most feverish time of design and construction following the Great Flood of 1927. Work displayed explores how as this organization formed its institutional mandate alongside each new flood control structure, it unwittingly entered an environmental arms race only to become the most influential landscape designer in U.S. history.

PLANNING FACULTY AND PHD STUDENTS PRESENT AT ACSP

City and Regional Planning faculty and PhD students were active at this year’s Association of Collegiate Schools of Planning (ACSP) Annual Conference. The 59th ACSP conference was hosted in Greenville, South Carolina, one of America’s best-planned and livable small cities.

PhD students presented research on such topics as gender differences in commuter behavior, distracted and non-distracted driving crashes in Central Ohio, and novel approaches to the measurement of sustainability indicators. Knowlton School faculty presented on the role of urban shades on microclimatic moderation, investigative tools for evaluating bicycling comfort and safety, and a comparison of socio-technical systems of demolition in Ohio, among other topics.



FACULTY ACHIEVEMENT



BENJAMIN WILKE RECEIVES DEAN'S AWARD FOR OUTSTANDING TEACHING BY A LECTURER

Benjamin Wilke received the Dean's Award for Outstanding Teaching by a Lecturer in recognition of his exemplary and influential teaching in the Architecture Section of the Knowlton School. Established by the College of Engineering in 2015, this award honors an individual lecturer, senior lecturer or other associated faculty member who has demonstrated excellence in their teaching within the college.

Wilke is the editor of the Source Books in Architecture series and a senior lecturer at the Knowlton School, where he teaches architecture design studios and seminars at the undergraduate and graduate level.



KYLE EZELL INDUCTED TO AICP COLLEGE OF FELLOWS

City and Regional Planning Professor of Practice Kyle Ezell was inducted into the American Institute of Certified Planners (AICP) College of Fellows. The highest honor the AICP bestows upon a member, induction recognizes outcomes that have left demonstrably significant and transformational improvements to the field of planning.

In recent years, Professor Ezell has explored ways that planners can create communities where adults with Autism Spectrum Disorder may thrive. Student work from his studios and workshops received the 2019 AICP Student Project Award from the American Planning Association (APA). Because of this project, the APA created a "Planning with Underserved Populations" Interest Group.



KRISTI CHERAMIE RECEIVES 2020 INDIA BOYER AWARD

Landscape Architecture Section Head Kristi Cheramie received the 2020 India Boyer Award for outstanding teaching, research and practice by a faculty member in the Knowlton School. Her work, largely based in fieldwork, tracks patterns of adaptability and transformation in the landscape, with a particular focus on efforts aimed at mitigating or eliminating change.

The award is in honor of India Boyer, who entered The Ohio State University in 1925, the first year the Department of Architecture accepted women. Boyer became the first woman to pass Ohio's architectural licensing exam and had a successful career in the Army Corps of Engineers, and later, in private practice.

TIJS VAN MAASAKKERS RECEIVES THE 2020 ROBERT S. LIVESEY TEACHING AWARD

Assistant Professor of City and Regional Planning Tijs van Maasakkers received the 2020 Robert S. Livesey Teaching Award. Van Maasakkers' research and teaching focus on the intersection(s) of science, technology and participation in environmental and land use decision-making, specifically in the context of complex public disputes.

Established by Knowlton School alumnus Navy Banvard (BSArch '82), a founding principal at Van Tilburg, Banvard & Soderbergh, AIA, the award recognizes tenure track clinical or associated faculty in the Knowlton School who excel in teaching and demonstrate commitment to students beyond the classroom.



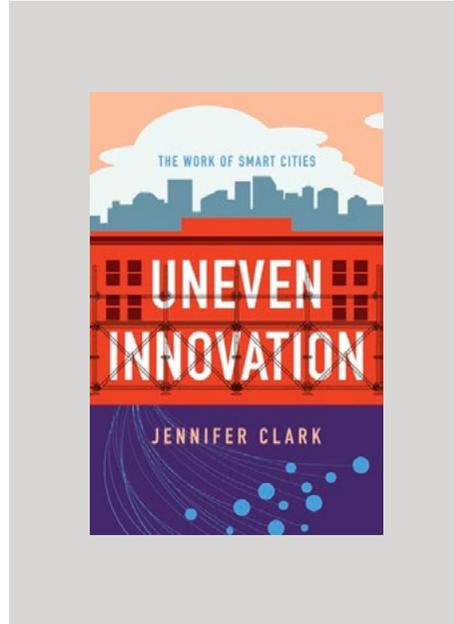
FACULTY PUBLICATIONS



DIGITAL FABRICATIONS: DESIGNER STORIES FOR A SOFTWARE-BASED PLANET

Galo Canizares
ARCHITECTURE

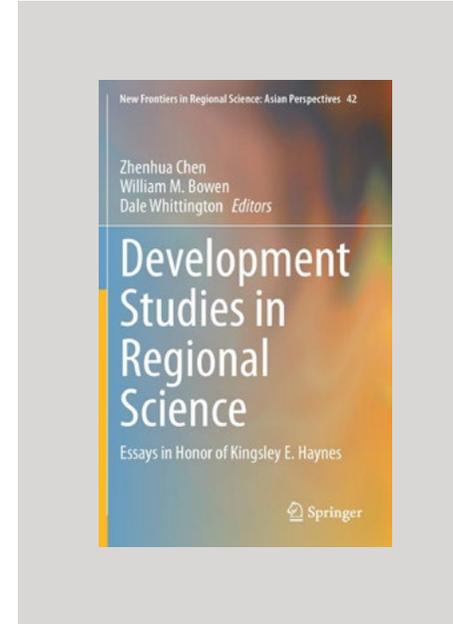
A collection of essays and half-true stories about design software and hardware. Each piece expands on emerging trends, devices, foibles, and phenomena engendered by an increased reliance on interactions with interfaces in the discipline. The essays ask, how do we characterize our post-digital design labor? How is architecture adapting to a world largely dependent on platforms and scripts?



UNEVEN INNOVATION: THE WORK OF SMART CITIES

Jennifer Clark
CITY AND REGIONAL PLANNING

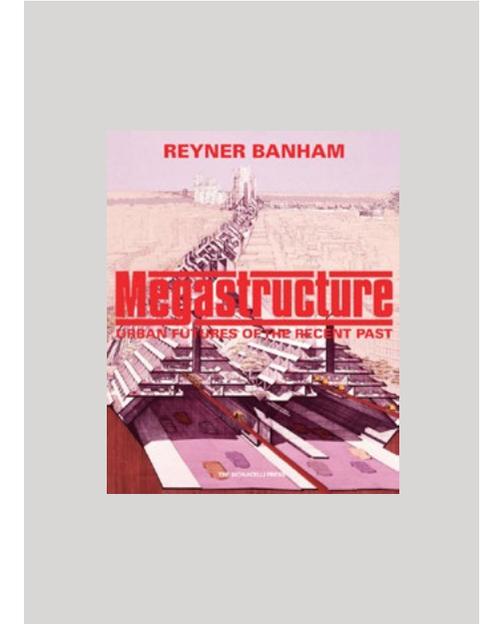
Uneven Innovation questions whether smart cities will be more of everything that a twenty-first century urban planner, citizen, and elected official wants: more efficient, more sustainable, and more inclusive. Clark's new book considers the potential of emerging information and communication technologies as well as their capacity to exacerbate existing inequalities and even produce new ones.



DEVELOPMENT STUDIES IN REGIONAL SCIENCE: ESSAYS IN HONOR OF KINGSLEY E. HAYNES

**Zenhua Chen, William M. Bowen, Dale
Whittington, editors**
CITY AND REGIONAL PLANNING

Leading academics and practitioners of international development and multidisciplinary analyses examine major policy and planning issues in development studies from the regional science perspective. Case studies focus on subfields like infrastructure, environment, data science, sustainability, and resilience.

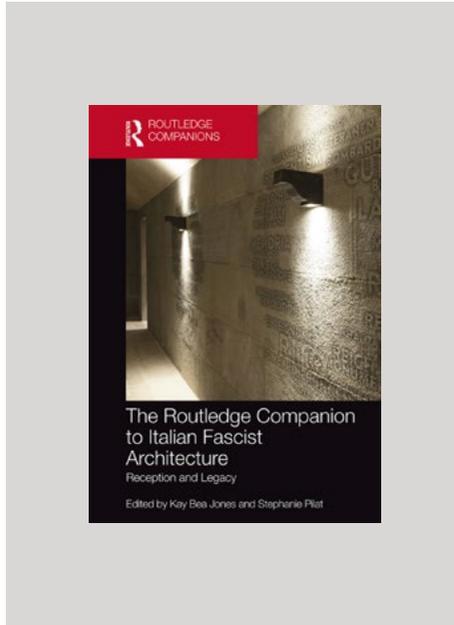


MEGASTRUCTURE: URBAN FUTURES OF THE RECENT PAST

Todd Gannon, Introduction
ARCHITECTURE

Combining imagination, wit, and pioneering scholarship, this is a long-sought study by Reyner Banham is back in print after decades. The reprint of this classic of architectural history and criticism surveys the megastructures movement—and the origins of this fantastic urban idea—that would inspire architects, fantasists, and filmmakers alike.

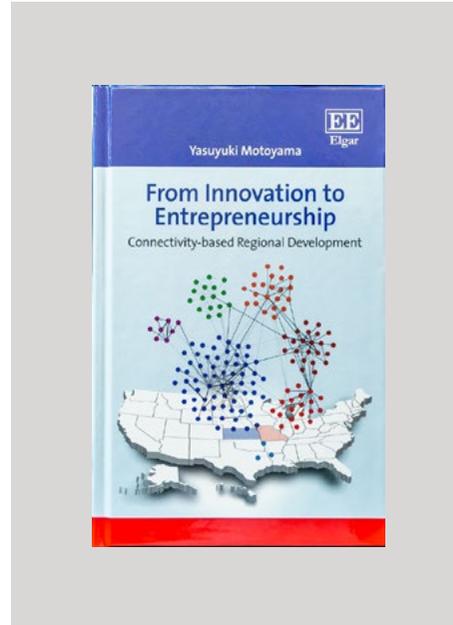
FACULTY PUBLICATIONS



THE ROUTLEDGE COMPANION TO ITALIAN FASCIST ARCHITECTURE

Kay Bea Jones and Stephanie Pilat, editors
ARCHITECTURE

This book investigates what has become of the architectural and urban projects of Italian Fascism, how sites have been transformed and what constitutes the meaning of these buildings and cities today. The essays examine the reception of fascist architecture through studies of destruction and adaptation, debates over reuse, and artistic interventions.



FROM INNOVATION TO ENTREPRENEURSHIP

Yasuyuki Motoyama
CITY AND REGIONAL PLANNING

Innovation and entrepreneurship are often considered two sides of the same coin. This volume disentangles theories of innovation and entrepreneurship, empirically revealing their overlaps and differences. Demonstrating that the pursuit of entrepreneurship is the key to economic development, Motoyama explores how people are at the heart of entrepreneurship ecosystems.



ARCHITECTURE STUFF / MORE STUFF

Robert S. Livesey
ARCHITECTURE

Architecture Stuff is about a way of looking at architecture. It examines seven seminal projects and shows how they might have been conceived with or without the design architect's awareness. More a working method than a theory, *Architecture Stuff* deals with questions pertinent to designers as well as to critics of buildings. *More Stuff* then illustrates how that same method can be used to make architecture.



RYUE NISHIZAWA | SANAA: GRACE FARMS

Benjamin Wilke
ARCHITECTURE

The latest addition to the Knowlton School's Source Books in Architecture series edited by Benjamin Wilke, this volume examines the project Grace Farms, designed by 2016–17 Herbert Baumer Distinguished Visiting Professor Ryue Nishizawa and SANAA. The book examines the appearance of simplicity and the absence of materiality in this project.



Empty studios on the third floor of Knowlton Hall.

STUDENT DEMOGRAPHICS

167

Graduate Enrollment

59 Master of Architecture Students

32 Master of Landscape Architecture Students

52 Master of City And Regional Planning Students

24 Phd in City and Regional Planning Students

568

Undergraduate Enrollment

331 Architecture Majors

98 Landscape Architecture Majors

139 City and Regional Planning Majors

43/57

Female Male

66% Ohio Residents

18% International Students

19% Under-Represented Minority

48/52

Female Male

77% Ohio Residents

10% International Students

15% Under-Represented Minority

77

Degrees Granted

124

Degrees Granted

ALUMNI DEMOGRAPHICS

8633

Total Living Knowlton Alumni

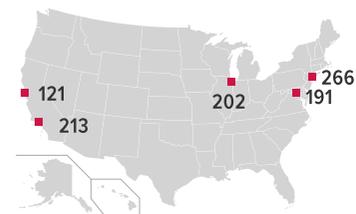
4,586 Architecture Alumni

2,035 Landscape Alumni

2,126 Planning Alumni

Knowlton alumni span the nation.

TOP 5 CITIES OUTSIDE OF OHIO ALUMNI CALL HOME



MENTOR PROGRAM

48

Alumni Mentors

58

Student Mentees

ALUMNI FELLOWS

FAIA

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 Navy Banvard '82 (2017)
 Burtch Beall Jr. '49 (1978)
 Carl Bentz* '33 (1968)
 Lane Beougher '93 (2017)
 William Blunden '58 (1986)
 Friedrich Bohm '69 (1992)
 Diana Brenner '79 (2008)
 Arthur Brown* '27 (1961)
 Huber Buehrer* '51 (1995)
 Gregory Burke '81 (2018)
 Richard Allen Carter '79 (2010)
 Susan Chin '76 (1998)
 Gilbert Coddington* '31 (1960)
 Arthur Deam* '21 (1971)
 Rick Del Monte '77 (2015)
 John James Diamond '68 (1995)
 Frank Elmer* '67 (2001)
 Scott Erdy '87 (2015)
 Thomas Eyerma '63 (1980)
 Timothy Fishing '84 (2017)
 James Foley* '50 (1973)
 Wyatt Jacob Frantom '97 (2019)
 Heber Carlton Godsey III '89 (2004)
 Lewis Goetz '70 (2003)
 William Haire Jr. '59 (1995)
 Dellas Harder '57 (1991)
 Timothy Hawk '86, '89 (2014)
 John Hedge '72, '73 (2009)
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 Charles Heuer '72 (1992)
 Thomas Hoepf '83 (2005)
 Kurt Hunker '79 (2013)
 William Ireland* '52 (1972)
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 Thomas Kerns '66 (1989)

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 Richard Trott* '61 (1982)
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 Drew White '83 (2012)
 Ken Wiseman '76, '78 (2020)
 James Wright '73 (2017)
 L. Morgan Yost* '31 (1952)

FASLA

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 Craig Cawse '72 (2005)

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 Eugenia Martin '95 (2014)
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* Deceased, () Elevation Year

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The Knowlton School Office Associateship Program fosters collaborations between the school and the professions through a student sponsorship plan that provides outstanding graduate students with a stipend, tuition assistance and direct exposure to practitioners. The program helps the school to compete with other premier design schools and to act as a catalyst for establishing Ohio as an internationally prominent center of design and planning.

2019-20 OFFICE ASSOCIATES

FULL

- | | |
|----------------------------------|---------------------------------|
| Acock and Associates | Moody Nolan |
| AIA Columbus | NBBJ |
| Architectural Alliance | Preservation Design Partnership |
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| Meyers + Associates Architecture | |

HALF

- | | |
|--|-----------------------------------|
| AECOM | Jonathan Barnes |
| Andrews Architects | Architecture and Design |
| Axis Architecture + Interiors / EDGE | Philip Libassi (BSArch'79) |
| BBCODESIGN | Lupton Rausch |
| BHDP | Architecture + Interior Design |
| bittoni architects | M Engineering |
| Brandstetter Carroll | M+A Architects |
| Columbus Architectural Studio | MKSK |
| Davis Wince Architecture | MSA Architects |
| DesignGroup | Pelli Clarke Pelli Architects |
| Erdy McHenry Architecture | pH7 Architects |
| Feinknopf Macioce Schappa Architects | Schooley Caldwell |
| GBBN Architects | Schorr Architects |
| GRA+D | SHP Leading Design |
| Jezerinac Geers & Associates | Shremshock Architects & Engineers |
| JL Bender Inc. Architects and Planners | Studio Gang |
| JMM Architects | Sullivan Bruck Architects |
| | WSA Studio |

\$262K

Awarded In Office Associateships

47

Master of Architecture and Master of Landscape Architecture Student Participants

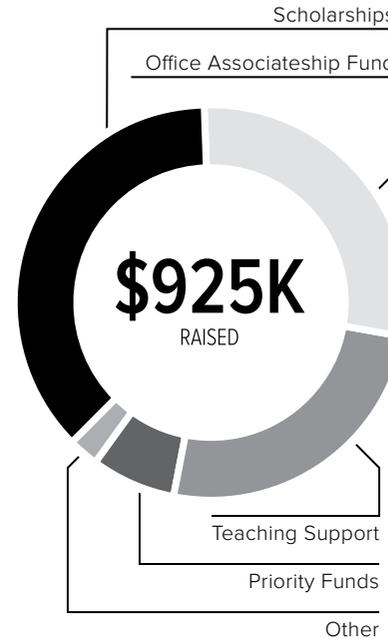
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- | | |
|-------------------|-------------------------|
| • Teaching | • Woodshop |
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| • Fabrication Lab | |

To become an Office Associateship Sponsor, contact:

Louisa Morris
 Alumni Relations Coordinator
 morris.1597@osu.edu
 614-247-5409

2019-20 FUNDRAISING IMPACTS



\$319K

Awarded In Academic Scholarships

33 Graduate Students 46 Undergraduate Students

\$52K

Awarded In Travel Scholarships

22 Graduate Students 29 Undergraduate Students Benefitting

2019-20 PRIORITY FUNDS

Priority Funds provide the flexibility to address the Knowlton School's greatest priorities. No other funds can be used as broadly. Priority Funds provide financial aid and travel opportunities, support our student organizations, bring emerging technologies into the classroom or studio, and more.

Knowlton Priority Funds

- Knowlton School Priority Fund
- Planning Section Priority Fund
- Landscape Section Priority Fund
- Architecture Section Priority Fund
- Knowlton School Scholarship Priority Fund

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JMM Architects
M+A Architects
Michael Milligan ('78) and Jana Milligan
MKSK
MNTS Properties
pH7 Architects
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David Wright ('78, '80)

Kenji Yamakoshi ('95)

Bruce Yoder ('87)

* Deceased

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If any errors are found, please contact:

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