

DesignlifeTM

NC State University College of Design | 2018-2019

IN THIS ISSUE: Incoming Class | Women in Leadership | The Legacy of Abie Harris | Chuck Flink Watauga Medal

Innovative Airport Designs Take Students Around the World

Student Exhibit Wins Award at Venice Biennale





DEAR FRIENDS,

This issue of **Designlife** offers a brief overview of the College of Design. We start by sharing a look at this year's First Year Experience class "by the numbers." We highlight our rich tradition of balancing great DESIGN with career preparedness, and we offer insight into our laser focus on human-centered solutions for the diversity and strength of North Carolina and communities throughout the world.

We appreciate your continued engagement, participation, and financial support. The remarkable education we offer is only possible with your help. Thank you.

—Mark Ellison Hoversten, PhD, FASLA, AICP

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ART2WEAR: Circularity and Sustainable

Art2Wear (A2W), the iconic student-led show of wearable innovations hosted by the Art + Design department, is now in its 18th season. This year's show will feature student-designed collections focused on sustainability while also exploring fibers, fashion, and personal experimentation.

A2W faculty lead Associate Professor of the Practice Precious Lovell shares that fashion and textile industries are the second largest producers of pollution in the world behind oil. "For this reason, the exploration of sustainable practices is essential if these industries are to survive. There is environmental sustainability, cultural sustainability, human sustainability, social and economic sustainability, and all of these affect and are affected by the global fashion and textile industries. Exploring these concepts is essential for students interested in creative apparel and textile design."

Eight student designers are participating in A2W on April 26, 2019, and their collections incorporate "circularity" as the theme. For some, this means upcycling of materials; utilizing recycled materials including plastic straws, trash bags, and single-fiber fabrics; and implementing zero-waste patternmaking. As they explore the benefits of sustainability in producing their collections, each are learning about the value of designing for the future and how products have an impact on the global ecosystem.



Keshauna Parker has hand dyed her fabrics and is working on zero-waste patternmaking.

TABLE OF CONTENTS

FEATURES:

8 Architect, Artist, Athlete: The Legacy of Abie Harris

14 Innovative Airport Designs Take Students Around the World

22 You Get Back What You Give

PICTURED: As part of the Invisible Worlds collaboration (page 11), this exhibit presents a way to experience dark matter through distorting effects of light in reflective spaces.

INSIDE:

4 Meet the Incoming Class

Get to know our newest First Year Experience students

6 Strong Leadership

We enter a new phase of excellence

7 Global Natural Hazards Expert Joins College

An opportunity for research and engagement across campus

10 Design Camp and TRIO Pair Up

Fostering a design future for high school students

11 Invisible Worlds

The convergence of design and sciences

12 Mixed Reality Lab

Interdisciplinary collaboration for innovation and commercialization

13 Design Thinking in Law

The influence of the design process

19 Design Studio

Learn how students are engaging in Think And Do

21 Awards + Accolades

Chuck Flink, Patrick Rand, and Kathleen Kincaid

24 Think And Do the Extraordinary

The Capital Campaign for NC State University

27 Remember This + Stay Connected

back cover Things We Like

ON THE COVER: Team Madagascar: Rosa McDonald, Sheyda Livingston Izquierdo, and Arpitha Belur at Palazzo Bembo discuss their airport model with Curt Fentress. Photo Credit: VeniceDocumentationProject.

MEET THE INCOMING CLASS

INCOMING FIRST YEAR

FALL 2018 INCOMING CLASS

Total Incoming Students: 150

First-Year Students: 98

Off-Campus Transfer: 45

On-Campus Transfer: 7

FALL 2018 INCOMING CLASS, by major

Architecture: 35

Art + Design: 29

Graphic Design: 28

Industrial Design: 19

Design Studies: 39

FALL 2018 INCOMING CLASS, by location

In-State: 130 from 24 counties

Out-of-State: 18 from 11 states (NJ, PA, VA, TX, IL, SC, FL, GA, NY, MD, WA)

International: 2

FALL 2018 INCOMING CLASS, by gender*

Female: 71%

Male: 29%

**self reported*

COLLEGE OF DESIGN STUDENT BODY

Undergraduate Total: 567 (506 in-state; 50 out-state; 11 international)

Graduate Total: 269 (155 in-state; 28 out-of-state; 86 international)

Total College of Design Student Body: 836

First-Year Voices



• RJ WASHINGTON,
ART + DESIGN

"Working with other design students is definitely the best part of First Year Experience."

The classes are full of passionate people, and the energy is contagious!"



• JD BOND,
ARCHITECTURE

"I chose design, specifically architecture, because I believe it gives you a unique perspective of the world

around you and promises a rewarding career."



• STEPHANIE SOSA,
GRAPHIC DESIGN

"My goal as a designer is to share stories and visually communicate information for the benefit

of others, to inspire as I've been."

NC State Facts for 2018-2019

• NC STATE UNIVERSITY received over **29,852** applications for the Fall 2018 first-year class. **4,853** first-year students were admitted, representing **all 100** of North Carolina's counties; **all 50 states**; and the **District of Columbia, Puerto Rico**, and the **U.S. Virgin Islands**.

• NC STATE is the **largest university in North Carolina** with students from across the **U.S. and 120 countries**.

• NC STATE UNIVERSITY
STUDENT BODY:

Total enrollment: **35,579**

Undergraduate: **23,263**

Graduate: **12,316**



LEFT TO RIGHT: Professors Meg Calkins, Pamela Jennings, PhD, and Sharon Joines, PhD

The College of Design was pleased to welcome three new leadership faculty at the start of this academic year.

In July, Sharon Joines, PhD, took on the position of Associate Dean for the College. Joines is a three-time NC State alumna who received her bachelor's, master's, and PhD in industrial engineering from the University. Joines began her career at NC State's Ergonomic Center of North Carolina before joining the faculty in

Industrial Design and the Center for Universal Design. In addition to her teaching and research, Joines worked in administrative roles as the Director of Graduate Programs for the Department of Industrial Design and as the Director of the Research in Ergonomics & Design Laboratory. Her research interests reside in

universal design, applied product and process research, and the effect of aging on fatigue development and work.

Also in July, Pamela Jennings, PhD, began her new position as the Head of the Department of Art + Design. With an extensive background in professional practice and academia focused on cutting-edge technology, research, and entrepreneurship, Jennings brings a wealth of valuable experience to the Department of Art + Design. Her work has focused on exploring computational technologies as tools for creative expression and on mixed-reality applications for learning. Jennings' love of learning shows—she has earned a PhD in human centered systems design, a Master of Business Administration, a Master of Fine Arts in computer art, a Master of Arts, and a Bachelor of Arts in psychology with vocal studies.

"It is an exciting time for the College with these leadership roles being filled by strong candidates who offer exceptional experience and credentials."

— DEAN MARK HOVERSTEN, PHD

Additionally, the College welcomed Meg Calkins, FASLA, as the new Head of the Department of Landscape Architecture in August. With over 23 years of teaching excellence in landscape architecture and a proven commitment to research, practice, design, theory, and construction, Calkins' experience and leadership will continue to elevate the Landscape Architecture program. Calkins holds master's degrees in landscape architecture and architecture and a bachelor's degree in urban planning. She has practiced in California and Washington, D.C., focusing on engagement in community design, urban design, and master planning, and has written extensively on sustainable landscape construction and technologies.

"It is an exciting time for the College with these leadership roles being filled by strong candidates who offer exceptional experience and credentials," says Dean Mark Hoversten, PhD.

Global Expert in Natural Hazards, Disasters, and Climate Change Adaptation Joins the College

Gavin Smith, PhD, AICP, an internationally recognized leader in planning for coastal resilience, hazard mitigation, disaster recovery, and adapting to climate change, joined the College's Department of Landscape Architecture this past winter.

Smith will work with faculty across campus to initiate collaboration in coastal resilience and sustainability aimed at teaching, research, and engagement. Additionally, Smith will develop a graduate certificate in natural hazards resilience.

Throughout his career, Smith has served as a policy advisor on issues surrounding past disasters, risk reduction, and climate change adaptation to U.S. and international researchers, practitioners, governments, and agencies.

"There's so much work to be done in this space," Smith says. "I really think it's the pressing issue of the 21st century, and I think NC State University is uniquely positioned to play a leadership role in it."

Gavin Smith, PhD



Architect, Artist, Athlete: The Legacy of

Everyday, Abie Harris walks the two-mile round trip from his home in Cameron Village to the NC State gym to run a mile, frequently with his friend Steve Cotanch, a retired physicist.

“There are people who are walking faster than we run. So it’s really what we used to call slogging, not jogging,” Harris says. Though he jokes about his current running pace, Harris says, “I’ve had a distinguished career in running. And I still run a little bit everyday, barely.” Harris got into running around 1975 when Basil Honikam, an assistant dean at NC State, encouraged him to try it. They formed a running group, cheekily calling themselves the “Road Scholars,” and competed at the state and national level.

In spite of his dedication to the sport, Harris says, “I really don’t like running. I hate it when I’m out running... It’s the competing and getting in shape [that I like].”

Harris, in his 80s, is noticeably fit (probably because of all the slogging). He has an obvious competitive streak and a slightly self-deprecating sense of humor. He seems proud, but not boastful, of his many accomplishments.

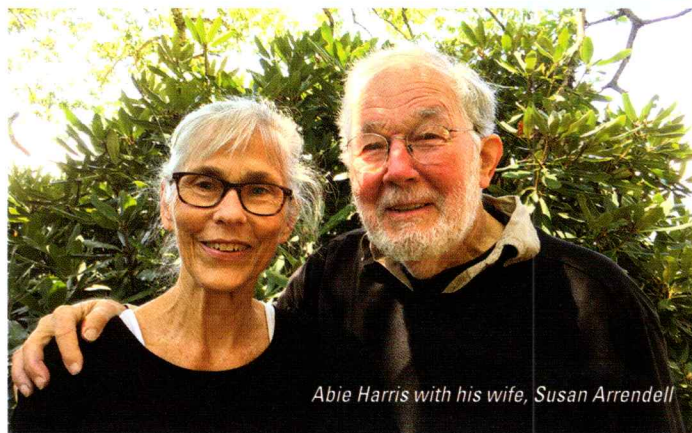
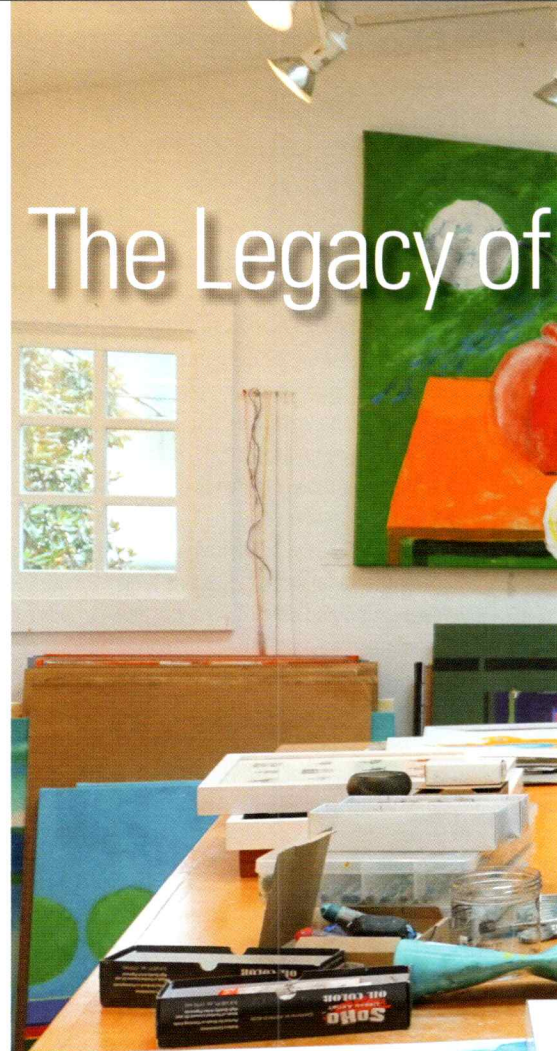
It is fitting that Harris walks campus daily because he had a major role in its design. From 1966 to 1998, Harris served as University Architect, shaping the NC State of today. When the University inherited what would become Centennial Campus, Harris went to work designing the space. “The master plan for the campus was approved in 1986 and from then until I retired, I was very involved in the planning and design of new buildings on Centennial Campus,” Harris says. “I was charged to make the campus a better place, and

I think that I did that over my years. I’m proud of that. I walk through campus every day, and I’m just amazed about how it has changed.”

Specially, Harris remembers that when he came to NC State as a student in 1952, the School of Design was located in a two-story army barracks in the center of campus. There was an “atmosphere of spontaneity,” he says. “I’ve always deemed that as one of the best learning environments I’ve ever been in. There was a sort of excitement going on and a lot of physical energy present.”

Harris knew in high school that he wanted to be an architect. He spent summers working for the only architect in his small hometown of Elkin, North Carolina. But this summer work hardly encouraged his interest in design. “There was nothing particularly inspirational about it. I mean, it was not inspirational at all. It was just drafting and surveying,” Harris says.

Harris had never heard of the School of Design until his friend, Dale Aldridge, who was one year older than Harris, came to the School to study architecture. Harris says, “When he came home at Christmas, he was describing what was going on. Dale told me about some of the projects he had to do, and he did not like them at all. And I knew, when he described these



Abie Harris with his wife, Susan Arrendell

- **DESIGN SUPPORT:** Recently, Abie Harris and his wife, Susan Arrendell, made a generous gift through their estate plan to the College of Design. They have established the Edwin F. “Abie” Harris Jr. and Susan Arrendell Scholarship Endowment, which is aimed at encouraging diversity and will benefit undergraduate architecture students who demonstrate need.
- **ALUMNI FACT:** In 1991, Abie Harris was the first recipient of the Distinguished Alumni award by the College of Design.

Abie Harris



Abie Harris at his home, which boasts a well-equipped painting studio.

projects, that was exactly what I wanted to do.”

After graduating, Harris taught drawing classes on campus and worked for other architects or in practice for himself before returning full-time as University Architect, a position that he held for 32 years. “And I have remained a thorn in Chancellor Woodson’s side over certain issues,” Harris half jokingly says.

Since retiring, Harris has continued running. “When I turned 75, I ran the Fifth Avenue Mile in New York... probably my best achievement are in running,” he says with a laugh. But he’s being modest. Harris has an

impressive resume—he was the first College of Design Distinguished Alumnus and a Winner of the Paris Prize in Architecture. He has also been awarded the F. Carter Williams Gold Medal by AIA North Carolina, the Phi Kappa Phi Chapter Artist Award, the School of Design Wings on Wings Award, and the Frank B. Turner Award. Harris was also the grand prize winner in the University of Miami International Campus Master Plan Competition in 1986 and the recipient of a Fellowship from the American Institute of Architects for significant achievement

in Government and Urban Design (Campus Planning). Even with this extensive list, Harris still says, “I think there’s a lot of luck involved.”

Harris attributes some of his success to the people he’s been able to work with. “I’ve always had a lot of good help,” he says. Specifically, Harris mentions the School of Design faculty—“the faculty were outstanding,” he says. Harris names old friends by name, lighting up as he tells stories about running, working, or making art together. “I’ve always worked with good people,” he says again.

continued

These days, Harris has shifted his attention to painting and drawing. “I’ve drawn all my life, and I’ve always made travel sketches wherever I went. Now I’ve gotten into painting and into the realm of trying to get exposure and to sell paintings. I’m in that rat race, so to speak.” Harris’ personal website showcases some of his artwork, including a series of teapots and synesthesia-like paintings of J. S. Bach’s Goldberg Variations. “I’ve just had a show at Louis Cherry’s pop-up down in Oakwood. Only sold one. That was to Fernando Magallanes. So that was kind of a plus that he would buy one,” Harris says with a laugh.

Harris finds inspiration for his artwork in spending time at a family home in the Blue Ridge Mountains. “The house was built over 100 years ago by my grandfather. It has the best view in Blowing Rock. I just paint the whole time we are there... [the stay] sort of rekindles my painting spirit,” he says.

Even with all of his awards, recognitions, and accomplishments, Harris thinks his best work is the work he did at NC State and his campus planning for Penland School of Crafts. Then he adds, “I’m very proud of my relationships at home with my wife and kids. There are ups and downs, but I couldn’t be happier.”

SOME OF THE WAYS TO FUND A PLANNED GIFT:

- Stocks
- Bonds
- Real Estate
- Retirement Assets
- Insurance

18 funds were established in 2017-2018 to benefit College of Design **students, faculty, and ongoing research.**

Design Camp and TRIO Pair Up

This past summer was the 38th year of Design Camp at NC State University and the beginning of a collaboration between Design Camp and NC State’s TRIO program.

Julia Rice, director of the Design Lab, wanted to intentionally seek out underrepresented student groups for Design Camp. Diversity in design is important, Rice says, because “we need different perspectives to solve the problems of the world.”

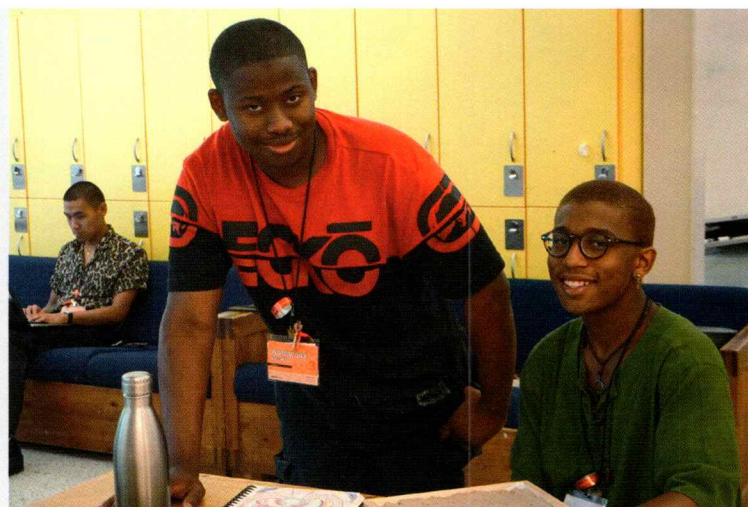
TRIO is a set of nationally funded programs established to help students overcome class, social, and cultural barriers to higher education. Rice and Maurice Mathis, academic coordinator of TRIO’s Upward Bound, worked together to find high school students in TRIO programs who were interested in learning more about design.

The Design Lab funded seven TRIO students to attend Design Camp 2018. Two

exceptional TRIO students, Antavious Mitchell and Tyler Jones, were selected to receive the Malecha Dream Scholarship. This scholarship was established by Marvin Malecha, dean emeritus of the College of Design, with the intent of providing scholarships for two or more motivated but underrepresented students at Design Camp each year. “The scholarship is a high honor in itself,” says Rice, and Mitchell and Jones agree. While both say that they could not have attended Design Camp without the scholarship, the confidence boost they received from it was invaluable.

Rice says this year was just the beginning of Design Camp and TRIO’s work together. “This isn’t something that you do just once and then it’s done. You keep working on it, keep connected with students, and keep bringing in more students.”

This year, 10 TRIO students, seven high school and three middle school, will attend Design Camp 2019 on scholarships from the K-12 Design Lab Fund. Mathis, Rice, and their colleagues are thrilled to be continuing this collaboration.



LEFT TO RIGHT: Antavious Mitchell and Tyler Jones in studio during Design Camp.

DESIGN CAMP STATS

- Since 2015, **eight students** (two each year) have received the Malecha Dream Scholarship. A total of **\$5,400** in support has been allocated.
- **6,290 students** have attended Design Camp since **1980**.
- The K-12 Design Lab offers a variety of **immersive and interdisciplinary** pre-college programs and resources for students and professional development for educators. The Design Lab is a resource for its faculty, staff, students, and affiliates interested in **pursuing outreach, engagement and scholarship activities** with K-12 students. Visit: design.ncsu.edu/designlab.



INVISIBLE WORLDS

BRINGING THE UNSEEN INTO FOCUS

On a Friday night in May, hundreds of visitors ventured to the newly opened Transfer Co. Food Hall in downtown Raleigh to explore the convergence of science and design through an interactive exhibition, "Invisible Worlds: Bringing the Unseen Into Focus." The exhibition was an interdisciplinary collaboration between NC State's College of Design and College of Sciences in partnership with The Leading Strand. The Leading Strand's founder, Amanda Phingbodhipakkiya, is a New York-based scientist turned designer whose vision is to make complex scientific concepts more accessible by artfully conveying the story of the scientists' research.

Upon entering the exhibition, visitors immediately encountered a massive structural box with bright rings and elastic cords. In nearby rooms, they could walk through a tunnel of distorted lights or manipulate time with virtual flip-books. Each exhibit offered hands-on learning of complex scientific research.

Six teams of scientific researchers, design faculty, and students were tasked with producing an installation that provided a deeper understanding of cutting-edge research. The collaboration encouraged all involved to venture into new territories and break disciplinary boundaries.

FORCE NETWORKS

- *Team leads:* Associate Professor of Architecture Sara Queen with Physicist Karen Daniels
- *Research prompt:* What sorts of forces arise between individual particles in a pile of sand?
- *Outcome:* Physicists study patterns of force that act on grains of material. Each component of this exhibit is designed to help viewers visualize the intricacy, complexity, and the beauty of force networks by exposing the unpredictable patterns of force that act on grains of material like sand.

ULTRAFAST QUANTUM MATTER

- *Team leads:* Teaching Assistant Professor of Graphic Design Victoria Chi with Physicist Lex Kemper
- *Research prompt:* What can we see when we slow down time?
- *Outcome:* Physicists have developed tools to study matter at time scales much faster than what the naked eye can observe. This exhibit offers a similar way of seeing to everyone by using virtual flip-books to slow down physical phenomena operating at different time scales.

DARK MATTER

- *Team leads:* Associate Professor of Art + Design Tania Allen with Physicist Katie Mack
- *Research prompt:* How can we detect dark matter, and how is it distributed?
- *Outcome:* Dark matter is invisible material that makes up to 80 percent of the matter in the universe. This project simulates gravitational lensing, a key method of mapping dark matter distribution, by distorting effects of light in a narrow, reflective space.

AYE-AYE BEHAVIOR AND VOCALIZATIONS

- *Team leads:* Associate Professor of Art + Design Emil Polyak with Biologist Lisa Paciulli
- *Research prompt:* How do aye-aye lemurs communicate and capture food?
- *Outcome:* Studying vocalizations and behaviors of the aye-aye, a nocturnal lemur native to Madagascar, helps researchers better understand primate behaviors. In this exhibit, visitors learn how female aye-ayes hunt for food in response to the cries of their infants.

OPTIMIZATION FOR RADIOTHERAPY

- *Team leads:* Associate Professor of Art + Design Emil Polyak with Mathematician Dávid Papp and students
- *Research prompt:* How can we use radiation to destroy cancerous tumors without affecting healthy tissue?
- *Outcome:* Mathematical optimization models and algorithms have proven effective in directing radiotherapy treatments for shrinking tumors. Visitors learn about the optimization challenges of radiotherapy as they direct radiation beams toward a model tumor. Treating cancer involves destroying the tumor while preserving healthy tissue.

SYNTHETIC ANTIBIOTICS

- *Team leads:* Associate Professor of Art + Design Patrick FitzGerald, Technology Associate for Research Lee Cherry, and Chemist Gavin Williams
- *Research prompt:* How can we synthesize the tools to fight antibiotic-resistant pathogens?
- *Outcome:* Molecules from nature are being reprogrammed to build antibiotics that defend against dangerous drug-resistant pathogens. This interactive game lets visitors build synthetic antibiotics by simulating different molecular combinations.



LEFT: Assistant Professor Derek Ham, PhD, with Payod Panda and Zoë Hausmann in MxR Lab. RIGHT: A working prototype developed using a 3-D printer.

MIXED REALITY LAB: For Innovation and Commercialization

In a retrofitted space in the lower level of Brooks Hall, a group of interdisciplinary students and Assistant Professor of Graphic Design Derek Ham, PhD, are exploring and researching innovative ways to think, do, and make.

Ham is leading this group of design, science, and engineering students as they push the boundaries of virtual reality (VR) and augmented reality (AR) technology and search for new opportunities for commercialization and adaptive uses. The Mixed Reality (MxR) Lab: For Innovation and Commercialization is the brain child of Ham and doctoral student Payod Panda [MGD '17] who together have an interest and expertise in all things VR, AR, and technology.

Currently, the VR experience primarily consists of sight and sound, without tapping into the user's sense of touch. The team has been hard at work brainstorming and ideating possible low entry point products that would enhance the VR experience. As Ham shares, "the existing offerings are in the form of expensive haptic devices," and the lab is "exploring haptic feedback to the end user for a relatively low entry cost to expand the user's VR experience."

The team has several working prototypes under development and patents pending through a partnership with the University Office of Research and Commercialization. This partnership, Ham emphasizes, is a critical part of the "Think And Do" mission of the University.

- **MxR LAB TEAM:** Alex Carruth, Zoe Hausmann, Nikhil Kaul, Byungsoo Kim, Payod Panda, and Assistant Professor Derek Ham (faculty advisor).

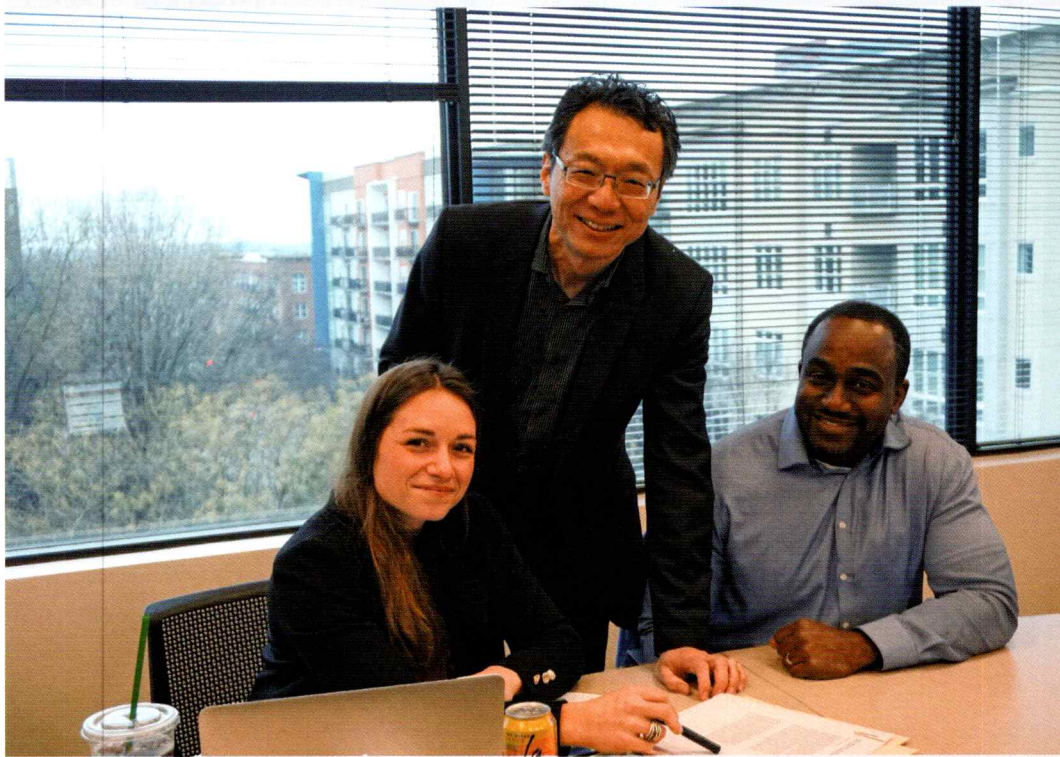
Design Thinking in Law

Course aims to teach law students to be more innovative and empathetic and, ultimately, more successful.

MORE STORIES:
design.ncsu.edu/news

DESIGN THINKING

- Associate Professor of Industrial Design Percy Hooper recently completed a hands-on, activity-based seminar on design thinking with employees of Sealed Air. The Charlotte-based company has collaborated with the College of Design on studio projects and was impressed by students' application of design thinking. Sealed Air hopes to extend the value of design thinking within their organization.
- Dean Mark Hoversten, with Jeff Braden, dean of the College of Humanities and Social Sciences, and Annette Ranft, dean of the Poole College of Management, co-taught Designing Your Life, a two-part workshop utilizing design thinking to help students successfully pivot from college to career and achieve work and life goals.



Professor Tsai Lu Liu with Campbell Law students taking Design Thinking for Law.

This spring, Professor and Department Head of Graphic Design and Industrial Design Tsai Lu Liu is partnering with Campbell Law School to teach Design Thinking in Law at the downtown Raleigh campus. Liu is co-teaching with Professor Kevin P. Lee of Campbell Law.

The course is aimed at exposing law students to the design process of empathizing, visualizing, prototyping, and iterating. In addition to lectures and design practitioners' visits, students will have the opportunity to practice and develop their design thinking skills through hands-on exercises. The understanding of human, client, and stakeholder experiences and needs will be explored through conducting empathetic and ethnographic research.

Introducing design thinking to law students is a way to encourage innovation and a customer-centric approach. "Law is a system that has evolved by and for the needs of lawyers and the legal profession," Lee says. "What human-centered design seeks is to rethink the law from the view of the citizen who it is intended to serve."

"The goal of this course is to not make these students into designers but prepare them to be better lawyers who can empathize with their clients and become client centered and, thus, creative in their thinking," says Liu.

Innovative Airport Designs Take Students Around the WORLD

The Venice Biennale of Architecture has been called “the Olympics of Architecture,” showcasing the work of the world’s leading design thinkers, visionaries, and makers to a global audience.

And last summer, for the first time, NC State College of Design students were there, exhibiting their designs for “Airports of the Future” at the European Cultural Center’s (ECC) “Time Space Existence” exhibition at Palazzo Bembo.

During its six-month run, the NC State student exhibit, “Airports of the Future: Global Design Thinking,” was recognized by the ECC and awarded The Architecture University Project Award for its contribution to research, for highlighting the significance of airport space, and for valuing the experiential journey.

• DESIGNING THE AIRPORT OF THE FUTURE

The models, videos, and print pieces on display in Venice were created by students in the advanced-level ARC 503 Airport Studio taught by Alumni Distinguished Professor of Architecture Wayne Place, PhD. Place, who has a deep-seated knowledge of structures,

has been teaching the course for six years. For the past five years, Curt Fentress, FAIA, RIBA [B.Arch ’72], Ana-Maria Drughi, AIA [M.Arch ’13], and Joshua Stephens, AIA [M.Arch ’13], of Fentress Architects, have been offering students their real-world insight into airport design through in-person lectures and long-distance collaborations.

Place and Fentress created a very open-ended prompt for students. The students were asked to pick locations around the world and design an airport that would make sense in that location, functioning both as an urban gateway and as a community space. Fentress adds, “Airports are now more than centers for air travel—they are multimodal transportation hubs that have become the most heavily-used large-scale public buildings of our time.”

The idea of the airport as a destination in and of itself inspired one student group’s thinking as they designed an airport for the island of Madagascar, pulling inspiration from the ecology of the island. “Their airport lands you essentially in the jungle, and then you take a zipline cable system through the canopy of the jungle. So you arrive at the airport and you instantly have an experience,” Place explains.

Other groups focused on minimizing the necessary drudgery of flying, such as perfecting the boarding process by utilizing a drive-through airport design, where an airplane is processed along a pathway and passengers board and deplane from all six doors of the aircraft, speeding up the process

continued

TOP: Joshua Stephens, Ana-Maria Drughi, and Curt Fentress of Fentress Architects; Professor Wayne Place, Professor David Hill, Dean Mark Hoversten, and Billy Askey with architecture students in Venice, Italy, on the veranda of Palazzo Bembo. BOTTOM LEFT: Joshua Stephens, Ana-Maria Drughi, and Curt Fentress. BOTTOM RIGHT: Exhibition space at Palazzo Bembo on opening night.





Student Exhibit
Wins Award at
Venice Biennale



and improving passenger experience.

A similar pain point to air travel, Place points out, is the distance from the city to the airport. “Normally, we build a city and then we build the airport, and there’s no place to put the airport except for way out on the boundary of the city. JFK, for example, is an hour’s ride or more from Manhattan.” Ingrid Fullerton, a student in the Airport Studio, faced this problem with her group in their airport design for Shiraz, Iran, an ancient city with a population of over 1.4 million, where taking up large amounts of ground space in the city center was not an option.

“We really wanted to find problems in today’s system and help figure out how we can solve them,” says Fullerton. Fullerton’s group addressed the issues of airport footprint and oil consumption by designing a tower airport, with the runway on top of the tower.

“Our project was one of the most futuristic. We were designing for 50 to 500 years from now. It was really challenging because so much of it is speculative. You never know which technology ideas to follow,” says Fullerton. When the Shiraz team was struggling to pull all of their ideas together, they turned to Place and Fentress. “I don’t think it can be said enough how wonderful it is to have someone like Wayne to talk to. He really helped us hone in our design and technology incorporation.” Additionally, Fullerton says that Fentress provided the missing piece of their design puzzle when he pointed out a specific aircraft, the XTI Trifan 600, which uses the technology of vertical takeoff and vertical landing.

Also helping students to realize their vision were College of Design alumni Ana-Maria Drughi and Joshua Stephens. Drughi came to campus and gave lectures on futurism in airports and managing

passenger flow. Stephens gave a presentation on organizing digital workflow, which Place says “is incredibly important in producing anything having to do with architecture in the modern age but is very specifically applicable to the process of producing video.”

• LEARNING A NEW PRESENTATION STYLE

Airport Studio students were tasked with creating three videos, featuring the findings of their location research and demonstrating the grand concept and spatial experience of their design.

In addition to functioning as a learning experience, the creation of the videos also served a practical purpose as students set up their exhibit in Venice. Billy Askey, AIA [B.Arch '06, M.Arch '17], the project manager responsible for the logistics of getting the students and their models to Venice, says, “Students had to present their project in a pretty new way. The longevity of the exhibit forces students to think about how their work can speak for itself. The videos really enabled the students to craft the stories of each of their individual projects and explain to viewers where they’re coming from as designers.”

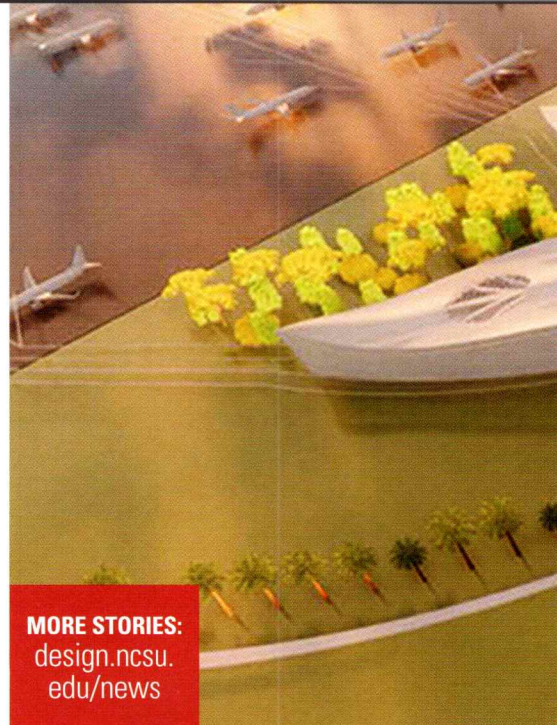
• LASTING BENEFITS

On the night of Thursday, May 24, 2018, the “Time Space Existence” exhibit opened to the public for a preview party. “It was a packed event, people were streaming in and out throughout the evening,” says Askey. “It was a great opportunity for the students to present their work in a larger context.”

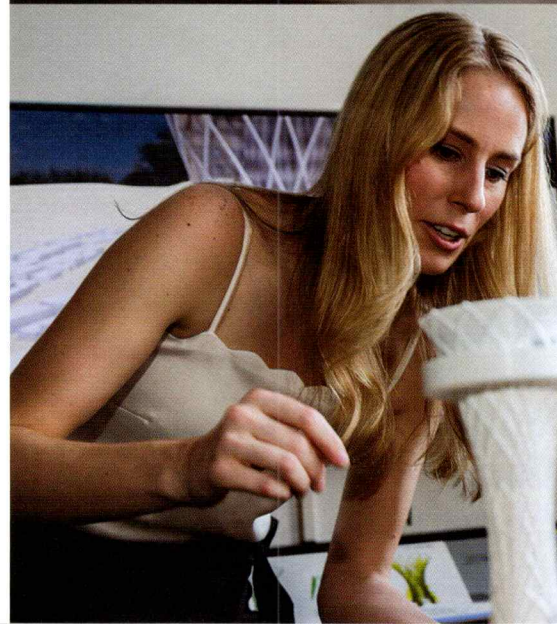
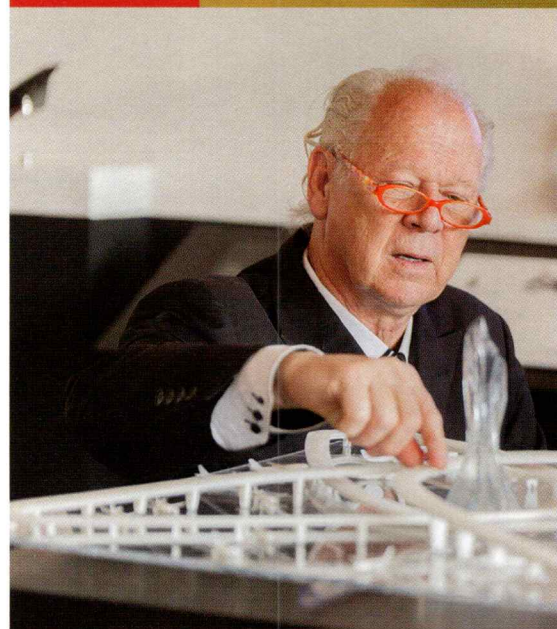
Place agrees, “I think the experience of going to Venice and setting this up was unbelievably important to our students. To have throngs of people coming in to see their projects—this is a completely different experience for them.”

continued

TOP: Rendering from team Toamasina, Madagascar. MIDDLE LEFT: Curt Fentress and Daoru Wang discuss Wang’s model for a Nanjing, China airport. MIDDLE RIGHT: Entrance to NC State’s exhibition space in Venice during the Biennale. BOTTOM LEFT: Ingrid Fullerton and Professor Wayne Place examine the model of team Shiraz, Iran. BOTTOM RIGHT: Dean Mark Hoversten and Sheyda Livingston Izquierdo take a closer look at the model for team Toamasina, Madagascar.



MORE STORIES:
design.ncsu.edu/news





Taking the studio to this international audience and creating such a rich learning environment would not have been possible without Fentress's help. Place says, "We have benefited tremendously from our collaboration with Fentress Architects. They bent over backwards" giving students access to information.

Fentress says, "I enjoy working with students and admire their ability to think big. Giving them opportunities to test their skills on large, complex programs such as airport terminals allows them to confront the complex challenges architects face in a rapidly changing world."

Even now that the exhibit has wrapped up, the benefits of the semester's work continue. Because of her work in the studio, Fullerton was asked to participate in an airport design charrette for her full-time job. "We came up with a fantastic design, and I think that I wouldn't have been able to be a part of that if I hadn't had a basic knowledge of how the psychology of an airport works and how to apply it to real-life projects," Fullerton says.

Initially, the ECC invited the College of Design to exhibit at the Palazzo Bembo after hearing Place speak at a symposium sponsored by Fentress Architects. But after seeing the NC State exhibit, the quality of the students' work spoke for itself. Place says, "we have been invited back again, based on the exhibit we just put up. So we can do it all over again."

• AIRPORT FLIGHT CREW

Pilot: Wayne Place, PhD

Co-Pilots: Curtis Fentress, FAIA, RIBA

Ana-Maria Drughi, AIA

Joshua Stephens, AIA

Flight Crew: Arpitha Belur, Emily Doyle, Ingrid

Fullerton, Parisa Javani, Michael Juriga,

Sheyda Livingston Izquierdo, Rosa

McDonald, Thanh Nguyen, Daoru Wang,

Cameron Westbrook, and Baxter Wilson

To learn more about the student projects and additional stories of the student experience,

please visit: design.ncsu.edu/Biennale.



Professor David Hill, Billy Askey, Dean Mark Hoversten, Professor Wayne Place, Curt Fentress, Joshua Stevens, and Ana-Maria Drughi with architecture students on the veranda of Palazzo Bembo looking into the exhibition space.

Airplane Interiors for All

Collins Aerospace, a Winston-Salem, NC, leader in technology and innovation solutions for the aerospace and defense industry, reached out to Professor and Department Head of Graphic Design and Industrial Design Tsai Lu Liu in the hopes of collaborating with design students to enter an international competition, The Crystal Cabin Awards. The competition gives students the opportunity to present their solutions for innovative products and concepts for aircraft interiors. Eight industrial design students chose to participate in the unique challenge, which was a learning opportunity above their existing semester course work.

Through Skype meetings and a visit to the Collins Aerospace facility, students got a fast-track understanding of cabin interiors, materials, research data, and the needs and safety of passengers. The team focused their design on accessibility for passengers with physical disabilities.

After six weeks of work, two products were submitted: AirGlide System and AirGlide Lavatory. Utilizing tracks that would run along the floor of the aircraft to provide guidance for a specialized seat, the AirGlide System allows passengers with a physical disability to remain in their seat, even when entering the lavatory. The second project was a redesign of the lavatory to accommodate the track system and seat.

Both entries were judged in the top 10 overall for their category. Among university entries, NC State's team was the only group whose work was not part of a studio project.



Katie Cubrilovic and Hanna Mortensen in the studio where cabin seats and a to-scale lavatory model were built for testing.

Landscape Architecture Design + Build

In 2018, the Department of Landscape Architecture decided to make LAR 506 Design + Build Studio (D+B) a required course rather than an elective. The value of the studio had been realized by faculty and students alike. D+B is more than just a hands-on experience; it empowers students to work with a client within a 16-week semester to conduct research, perform site analysis, ideate solutions that address the issues, and construct a project within a budget and time frame. "It is what it's like in the real world," says Teaching Assistant Professor Carla Radoslovich Delcambre, ASLA, the current D+B faculty lead. Delcambre works alongside Jesse Turner [BLA '05, MLA '14], studio lead and assistant professor of the practice.

Associate Professor of Landscape Architecture Andy Fox, ASLA, created the first D+B experience at the College in 2010 after receiving grant money to initiate the project. The first D+B project was the design and installation of a rain garden at Syme Hall. Each D+B has partnered with NC State University Housing, and the common thread has been a focus on

green infrastructure and improvement in stormwater issues that affect the NC State campus landscapes and livability.

This semester D+B worked on phase 3 of Syme Hall to address stormwater efficiency while transforming the depleted site into a space that is attractive and ecologically diverse.

This complements previous Syme Hall projects that have improved the landscape's infrastructure durability, the site usage, and the overall experience for residents. This project will also seek SITES certification, a first on NC State's campus. SITES is a sustainability-focused framework that provides a performance measure based on a point system that assesses specific outcomes from the site with particular focus on protecting ecosystems.

Tiny Homes Offer Solution for Veteran Homelessness



Professor Tom Barrie with students, faculty, and partners during a collaborative working session.

have an established place in architecture. Now, nonprofits and community leaders are turning to tiny homes to provide shelter and a sense of individual identity to homeless veterans.

The North Carolina Coalition to End Homelessness approached Professor of Architecture Tom Barrie, AIA, indicating that they were interested in sponsoring a studio for researching the development of micro housing communities for homeless veterans in the Triangle area. These communities would feature a series of individual tiny homes, allowing veterans to live independently but in a group setting. Support services would be provided as well.

Students in the advanced design studio Micro Housing for Homeless and Disable Veterans led by Barrie and Head of the School and Professor of Architecture David Hill, AIA, researched precedents and best practices of micro housing, tiny home collectives, and supportive housing and designed prototypical tiny home collectives for a range of sites in Durham and Wake counties. Research and design outcomes and recommendations from the studio were compiled in a project publication to serve as a guide in establishing micro housing communities in North Carolina.

Davin Hong of Living Design Lab in Baltimore and Omar Hakeem of bcWorkshop in Dallas were visiting critics. The class was offered through the School of Architecture's Affordable Housing and Sustainable Communities Initiative, which is part of the School's Public Interest Design Studios program.

Measuring under 400 square feet, micro or "tiny" homes have risen in popularity in recent years. Proponents are attracted to the affordability, low maintenance, portability, and simple construction of tiny homes. But micro homes are more than a passing fad. With a history that dates back to the English settlers, micro homes



LEFT TO RIGHT: D+B students Anna Grace FitzGerald, Kathleen Armstrong, Virginia Fall, and Sarah Johnson working on Phase 3 of Syme Residence Hall.

Think And Do

For almost a decade, Associate Professor of Industrial Design Percy Hooper has pioneered and instructed the animal pull-toy project, a hands-on exercise for second-year students. The project is incorporated within ID 201 Basic Industrial Design Studio, which explores the theories, methods, and language of industrial design and the transitional implications of hand-crafted and mass-produced objects in various materials. Hooper uses the pull-toy project to help students bridge the gap between the making and the mechanical workings of objects. Additionally, he hopes students get comfortable with the tools and machinery available in the Materials Lab because, he says, "They need to get accustomed to building things in the shop to test their own ideas by making physical models."

The goal of the project is for students to design and build a wooden pull toy that imitates three specific motions of an animal using a synchronized assemblage of mechanisms that must be responsive by a turning wheel when rolled across the floor. The design process includes descriptive sketching; using cardboard and pushpins to represent the motion; developing a rough wooden model; and finally, developing their working wooden pull toy.

"They are gradually building upon their experiences and experiments, their successes

and failures," shares Hooper. "Through the repetitive process of learning each movement, it is no longer complicated at all."

Hooper's passion and excitement for teaching students how to think and do is obvious. He shares that when he was a student, he received some valuable advice from Michael Pause, former professor of Art + Design: "Don't teach the way you were taught. Teach the way you learned."

Design Innovation at ACCelerate

The College of Design was well represented at this year's ACCelerate: ACC Smithsonian Creativity and Innovation Festival at the National Museum of American History in Washington, D.C. This event, presented by the Smithsonian Institution and Virginia Tech, celebrates the creative exploration of research within science, engineering, art, and design and offers Atlantic Coastal Conference (ACC) schools the opportunity to showcase their

interactive installations and performances to the public. College of Design faculty and students presented two interactive exhibits and one performance at the festival.

Associate Professor of Art + Design Emil Polyak collaborated with Olga Kleiankina, PhD, from the Department of Music for "Our Passage to the Stars... Merging Arts and Sciences." This



ACCelerate project members Lee Cherry, Assistant Professor Emil Polyak, and students Stephen Waddell and Nikki Knapp. Missing is Associate Professor Patrick FitzGerald.

innovative musical and visual performance celebrates the 50th anniversary of the Apollo 11 launch and moon landing. Polyak used machine learning to create real-time computer-generated visual narratives in response to the piano's acoustic output.

In a separate project, Polyak collaborated with design students and Dávid Papp, an NC State mathematics professor whose research focuses on numerical methods for improving radiation therapy delivery to cancer patients. The team created "Optimization for Radiotherapy: An Artistic Simulation of Radiotherapy." This interactive simulation demonstrates the complex and multifaceted challenges of mathematical optimization on a tumor.

Also using design to create a better understanding of health, Associate Professor of Art + Design Patrick FitzGerald, Research Lead Lee Cherry, and design students teamed up with Gavin Williams from the Department of Chemistry to create an educational video game called "Invisible Worlds: Synthetic Antibiotics." Williams and his researchers are developing a genes-to-molecules synthetic biology pipeline using molecules from nature as a platform for drug discovery that can help defend against some of the most dangerous pathogens threatening humanity. The video game allows players to expand their knowledge of science and health by designing synthetic antibiotics to fight against antibiotic-resistant pathogens.



MORE STORIES:
design.ncsu.edu/news

One of the final wooden pull toys on display in Brooks Hall.

AWARDS + ACCOLADES



- **Alumnus Charles (Chuck) A. Flink II, FASLA [BEDL '82, MLA '17], Recognized as a 2019 Recipient of the Esteemed Watauga Medal**

As a recipient, Flink is among an elite group of individuals and the fifth College of Design alumnus to be selected. He is an award-winning author, landscape architect, and planner and widely regarded as one of America's leading greenway designers. His unwavering dedication to the advancement of the College of Design and NC State University is inspiring. In 2006, Flink was recognized as a Distinguished Alumnus of the College of Design. He has served on many boards and councils, including the College of Design Leaders Council and the NC State University Board of Visitors. Flink and his wife Marjorie established the Flink Endowment in the Department of Landscape Architecture, contributed to the Gene Bressler Landscape Architecture Faculty Award Endowment, and are lifetime members of the NC State University Alumni Association and the Friends of the University Libraries. Flink was a College adjunct faculty member from 2012 to 2018 and has been mentoring students since 1990.

The Watauga Medal is the highest nonacademic award given by the University. It was established in 1975 by the Board of Trustees to honor those who have made significant contributions to the advancement of the University. The selection process is rigorous,

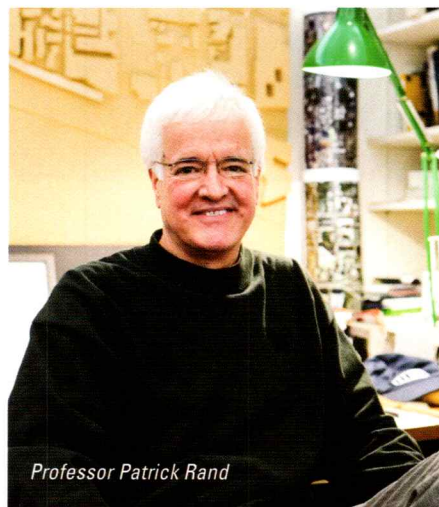
with nominees reviewed by the Watauga Medal Selection Committee, the Chancellor, and the Board of Trustees.

- **Patrick Rand Receives Fulbright Distinguished Chair Award**

Distinguished Professor of Architecture Patrick Rand, FAIA, DPACSA, was awarded a Fulbright Distinguished Chair Award, one of the most prestigious scholarships in the world. This award has allowed Rand to teach and research at Aalto University in Helsinki, Finland, since January. His term in Finland will conclude in May.

Rand says that he had been interested in pursuing a Fulbright position for some time. "I've always had a lot of respect for Fulbrights. The motive to have some kind of international exchange between faculty and students makes a lot of sense." Even in the current age of information and vast scholarly publications, some areas of knowledge are "provincial and regional," Rand says. Visiting the country, collaborating with other academicians, and investigating local texts and methods can open up new ways of thinking by "making regional knowledge accessible to a larger number of people."

Rand hopes to inspire students at his host and home universities and bring the lessons he learns in Finland to NC State University and possibly beyond by writing articles or another book.



Roughly 40 Fulbright Distinguished Chair positions are awarded annually. Rand is the second faculty member from NC State University to be awarded a Fulbright Distinguished Chair Award.

- **Kathleen Kincaid, Distinguished Alumna, to Give Spring 2019 Commencement Address**

The College of Design is pleased to announce that Distinguished Alumna Kathleen Kincaid [MPD '92], executive director for development and engagement at The New York Times, will deliver the College of Design Spring 2019 Commencement Address. In November, Kincaid was named as the 2018 recipient of the NC State College of Design Distinguished Alumni Award for her career success and outstanding support of the University.

Combining her background in design, communications, and executive coaching, Kincaid has made an accomplished career in digital media and team building. Over the years, Kincaid has worked for Ziff Davis, Conde Nast, Yahoo!, The Washington Post, and Microsoft. Kincaid believes that life-long learning, networking, and interdisciplinary collaboration are key to career success and personal fulfillment. In addition to her current role at The New York Times, Kincaid also has a part-time business, Kathleen Kincaid Coaching, helping clients identify their strengths, accelerate learning, and attain their goals.



Kimberly Wicker

It's often noted that once you are part of the College of Design community, you are forever a part of a tightly woven family, a family of designers that spans generations, professions, continents, and limitless passion. It's living a **Designlife**.

Kimberly Wicker [MLA '97] sees the value and benefits of staying connected and is truly living the Designlife. Recently, Wicker established the Kimberly Jo Wicker Landscape Architecture Graduate Award Endowment. "This is my way of giving back in a specific way that will provide students the opportunity for higher education that I received," Wicker says. The scholarship is for a student pursuing a graduate degree in landscape architecture and is merit-based with consideration to need. Additionally, preference will be given to first-generation college students and special consideration will be given to a

You Get Back What You Give

student who has overcome challenges and for those raised by a single parent.

Wicker is the first member of her immediate family to have attended college. While higher education wasn't a concern in her family, her appreciation for the opportunities it offers her runs deep. Wicker says, "I always had this desire to see and do more. I think it's the passion—it's ingrained in [me], a saturation that [I] feel here [at the College]. Being the one that went to college in my family has helped me appreciate everything as well." Wicker says that her mom's financial wisdom was beneficial and seeking out different types of financial support for college made a major difference. "Without the small grants, scholarships, and even teaching assistantships that I had, the opportunity for higher education would not have been possible."

After receiving her undergraduate degree

from Pennsylvania State University, Wicker enrolled in the Master's of Landscape Architecture program at the College of Design. She has since continued her connections and relationships with the College and local design community in a myriad of capacities, including as past chair of the City of Raleigh Parks, Recreation and Greenway Advisory Board and a past member of the Wake County Planning Board. Most recently, she was appointed to the NC State University Board of Visitors. In 2005, she opened her own design firm, Coaly Design.

MORE STORIES:
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Wicker has also served as an adjunct professor at the College, is an annual contributor to the Designlife Fund, serves on the Leaders Council, has mentored students and sponsored students to participate in College events, and hires students to work in her practice. Wicker's support is a natural extension of who she is and an integral part of her life. She doesn't need a reason to give—"You get back what you give. No matter what it is. I feel like I have a lot to give, and even if I'm not directly getting back, in some ways the universe gives you back what you give. Even if it's an hour or \$100 or \$25 dollars—it's not about the amount, it's about the purpose."

"Volunteering and giving back—whether it's monetary or of my time—it goes back to appreciation, feeling that even if it's a small impact that I am making on a student, I'm honored, and I know that even a small contribution can make a lifetime of difference."

This eagerness to give came at least in part from Wicker's family, who instilled in her the importance of volunteering and community relationships. "I had great influences in my family—my grandfather was a township supervisor of 25+ years, and my mother was actively involved in volunteering with our church, school, and local politics. She has always been a role model as a strong, independent female having a voice and influence."

"Volunteering and giving back—whether it's monetary or of my time—it goes back to appreciation, feeling that even if it's a small impact that I am making on a student, I'm honored, and I know that even a small contribution can make a lifetime of difference," states Wicker. "When I was 22, I was on the Wake County Planning Board, and I had a certain set of skills that I could offer. I may not have had a lot of professional experience; however, time and participation are important."

"As my success and achievements as a businesswoman have grown, I've been able to reflect on the many influences that have allowed me to become the person I am. My family, friends, teachers, employers, and all the many mentors—personally and professionally—played a valuable role," Wicker says. "I didn't get here alone."

SCHOLARSHIP STATISTICS:

- In 2018-2019, **72** students received **\$244,386** in scholarship support.
- **29%** of our alumni have given to the College.
- Since 2015-2016, there have been **10 new scholarships** created and funding has **increased by \$108,000**.



THINK AND DO THE EXTRAORDINARY

The Campaign for NC State

NC State University is in the midst of a **five-year campaign** to raise \$1.6 billion for current and future funding needs. State resources provide 30% of the university's budget, and the remainder comes through tuition and fees, grants and contracts, and private giving. Gifts from **alumni and friends** are an important source of College funding.

The College of Design is **87% of the way** to meeting its **\$13 million goal** by the conclusion of the campaign on December 31, 2021. Funds are being raised for the following priorities:

STUDENT SUCCESS: Increase support for scholarships and fellowships across all academic programs to ensure a diverse and talented student body.

- In the 2018-2019 academic year, **13% of our students** were **supported by scholarships** but **59% qualified for need**.

FACULTY SUCCESS: Establish endowments to **attract and retain outstanding faculty** as well as provide faculty research awards, fund research assistants, supplement travel to conferences (sometimes with students), and remain at the forefront of design.

- We are the only College at NC State University without an endowed professorship.

ENRICHING PROGRAMS: Support extraordinary student experiences such as study abroad; attending or participating in conferences; creating exhibitions for regional, national, and international events; and preparing for robust careers.

- **Four study abroad scholarships** totaling \$5,700 per year support undergraduate students who participate in an **international experience** required by the College.
- \$100,000 in funds was raised to support architecture students to go to Venice, Italy, and **participate at the Venice Biennale**.

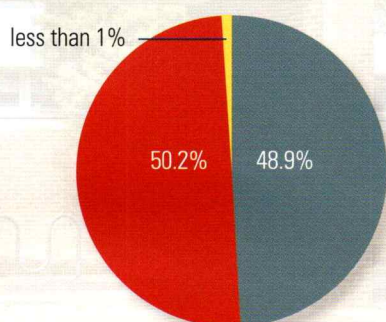


Gifts to the College of Design During the Campaign

Alumni, friends, and corporations play an important role in the success of the College of Design.

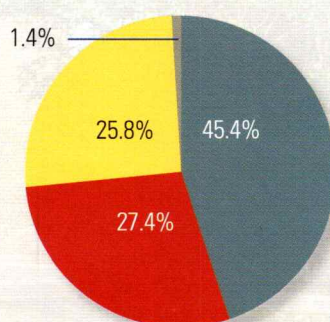
Whether the college receives annual cash gifts, multi-year pledges, or is included in an estate plan, every contribution has an impact and supports its ongoing excellence. The following charts illustrate how gifts during the Think And Do the Extraordinary Campaign are assisting the College of Design:

GIFT BY USE



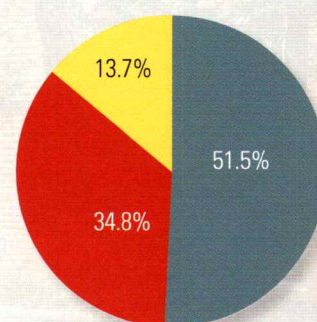
Facilities: \$97,752
Operations: \$5,538,021
Endowment: \$5,685,316

GIFT BY TYPE



In-Kind and Matching Gifts: \$155,666
Planned, Life Income, and Bequests: \$2,924,746
Cash and Pledges: \$5,136,413
Non-Governmental Grants: \$3,104,264

GIFT BY SOURCE



Other Individuals: \$876,396
Corporations/Other Organizations: \$3,296,363
Foundations: \$2,228,592

THANK YOU! Listed below are donors to the College of Design (individuals, firms, companies, and foundations) who contributed \$25,000 or more between July 1, 2017, and January 31, 2019. The list includes cash gifts, in-kind donations, and planned gift commitments. Please accept our deepest apologies for any errors or omissions.

350K+

- Linda Jones
David F. Jones Scholarship Endowment
- Stephen H. Robertson
Stephen Robertson Design Fellowship Fund

100K+

- Kevin and Myra Kane
Kevin and Myra Kane Fund
- William and Jane Valentine
Architecture Design + Build Studio | William & Jane Valentine Scholarship Endowment

- Douglas D. Westmoreland
Douglas D. Westmoreland Scholarship Endowment
- Ruby and Ernest McSwain Worthy Lands Trust
Ruby and Ernest McSwain Worth Lands Trust Landscape Architecture Graduate Award Endowment
- Anonymous

50K+

- Clearscapes, PA
Designlife Fund
- Edwin "Abie" Harris Jr. and Susan Arrendell
Edwin F. "Abie" Harris Jr. and Susan Arrendell Scholarship Endowment
- Bonnie B. Hammond Estate
Architecture Fund for Excellence
- STEWART
Designlife Fund | STEWART Landscape Architecture Graduate Award Endowment

- Steven D. Schuster and Mary Anne Howard
Steven D. Schuster and Mary Anne Howard Architecture Scholarship Endowment
- Formation Design
Industrial Design Studio Fund
- Fred M. Taylor
Fred M. Taylor Scholarship
- Julia L. Wilson and Lindsey Dotson
Julia Wilson + Lindsey Dotson Design Scholarship Endowment

25K+

- Patty and H. Clymer Cease Jr.
Heister C. Cease Architecture Graduate Award Endowment
- Clark Nexsen Foundation
Clark Nexsen Architecture Graduate Award
- Richard A. Curtis
Richard Allen Curtis Fund for Design Students

continued

- Charles A. Flink II
Gene Bressler Landscape Architecture Faculty Award Endowment
- Mark Johnson
Gene Bressler Landscape Architecture Faculty Award Endowment
- Robbie D. Layton, PhD
Gene Bressler Landscape Architecture Faculty Award Endowment
- LS3P
LS3P Associates Scholarship Endowment
- John and Tracy Martin
John and Tracy Martin Scholarship
- Linda Noble and Craig McDuffie
TLC Endowment for College of Design Student Aid
- Oldcastle APG – Adams, a CRH Company
Adams Oldcastle Werner-McQueen Architecture Scholarship Endowment
- Katherine and Rick Peele
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- Real Estate Equity Solutions, LLC
Coastal Dynamics Design Lab Excellence Fund
- Alberto and Veronica Rigau
Rigau Graphic Design Research Fund
- Martha Scottford,
Professor Emerita, Graphic Design
Graphic Design Student Study Abroad Scholarship Endowment
- VF Corporation
Art2Wear Fashion Show
- Kimberly J. Wicker
Kimberly Jo Wicker Landscape Architecture Graduate Award Endowment

Non-Governmental Grants

- Blue Cross Blue Shield of NC Foundation
- Conservation Purpose, LLC
- John Rex Endowment
- Mountain Sun Community School
- NC Community Foundation Inc.
- New South Ventures, LLC
- North American Association for Environmental Education
- North Carolina Coalition to End Homelessness
- PCI Foundation
- PlayCore
- The Robert Wood Johnson Foundation
- Schwab Charitable Fund
- Technibilt
- UNC Rex Healthcare

Leaders Council

The NC State University College of Design Leaders Council is a **volunteer advisory board** that supports the College's strategic direction and **assists in securing financial resources** to achieve its long-range academic goals. It is **comprised of alumni, friends, and faculty** who serve on one of four committees: Academic, Events, Fundraising and Membership. The current members are:

- George E. Stanziale Jr., FASLA, STEWART
Leaders Council President
- Roy L. Abernathy, AIA, Newman Knight
- Michael S. Cole Sr., FASLA,
ColeJenest & Stone
- Randolph R. Croxton, FAIA, Croxton
Collaborative Architects PC
- Scott Cutler, Brasfield & Gorrie, LLC
- Steve Davis, Steve Davis Design
- Turan Duda, FAIA, Duda/Paine Architects LLP
- Curt W. Fentress, FAIA, Fentress Architects
- Charles A. Flink II, FASLA, Greenways Inc.
- Greg Hatem, Empire Properties
- Jennifer L. Heintz, AIA, Clark Nexsen
- Linda L. Jewell, FASLA, University of
California, Berkeley, Professor Emerita
- Mark Johnson, FASLA, Civitas Inc.
- Aly G. Khalifa, Gamil Design Inc.
- Rayford W. Law, AIA, Rayford W. Law
Architecture and Planning
- Laura L. Levinson, Valdese Weavers, LLC
- Kenneth Luker, AIA, Perkins+Will NC
- John H. Martin, AIA, Elkus Manfredi Architects
- Kenneth C. Mayer Jr., FAIA, Clark Patterson
- Matthew O. McConnell, McConnell Studios
- A. Craig McDuffie, McDuffie Design
- Julie M. McLaurin, AIA,
Little Diversified Architectural Consulting
- Angela J. Medlin, House Dogge,
Pensole Academy
- Paul F. Morris, FASLA, MCP Foundation Inc.
- Vansana Nolintha,
Bida Manda/Brewery Bhavana
- Katherine N. Peele, FAIA, LS3P Associates Ltd.
- Roula Qubain, AIA, Flad Architects
- Steven D. Schuster, FAIA, Clearscapes, PA
- Rodney L. Swink, FASLA, Place Economics
- Kim Tanzer, FAIA, Architect
- Donald O. Tise Jr., AIA,
Tise-Kiester Architects, PA
- Frank J. Werner, CRH Americas Inc.
- Kimberly J. Wicker, ASLA, Coaly Design PC

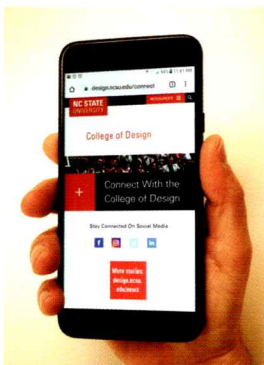
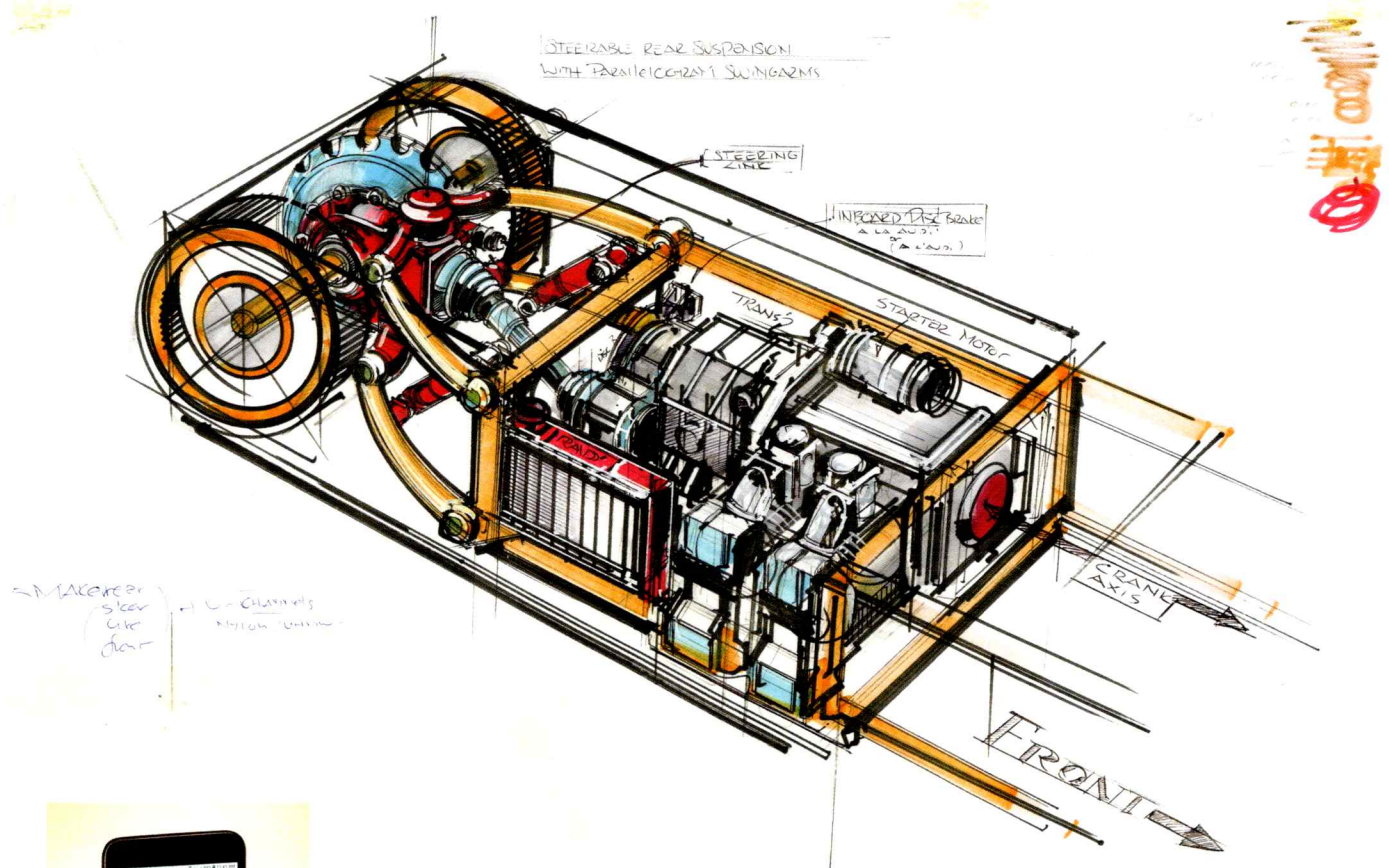
The College's board structure was revised in 2018, and there is now just one board, the Leaders Council. Terms of service have been created and the size of the board has been reduced to enable the College to more effectively work with and interact with its members. Over several decades, there have been many people committed to serving the College of Design. Dean Mark Hoversten is sincerely grateful for each board member whose term ended in 2018 and who generously gave of their time, advice, and guidance. Please join us in thanking and recognizing the following individuals:

- Tim E. Allen, Microsoft
- John L. Atkins III, AIA,
O'BrienAtkins Associates
- L. Franklin Bost,
Virginia Commonwealth University
- Mia L. Blume, Design Dept.
- Richard A. Curtis, USA Today (Retired)
- David W. Evans, David Evans Media
- Bill L. Flournoy Jr., FASLA,
Triangle Greenways Council
- Michael D. Greene, AIA,
Kohn Pedersen Fox Associates PC
- Douglas L. Hall Jr., AIA, EwingCole
- Edwin "Abie" F. Harris Jr., FAIA,
NC State University (Retired)
- Walt R. Havener, FASLA, Surface 678, PA
- Alexander M. Isley,
Alexander Isley Inc. Designers
- Liora G. Manne, Liora Manné Inc.
- Matthew Mara, General Shale
- Edgar "Monty" B. Montague III, BOLTGROUP
- Bambi J. Orban, Cullen USA
- Mitchell J. Silver, FAICP,
NYC Parks Commissioner
- Susan K. Settergren, Futures Group
- Daniel J. Stillion, IDEO
- Bill Taylor, CRJA-IBI
- William E. Valentine, FAIA, HOK (Retired)
- Emily B. Walser, FASID, Smith & Noble
- Charles "Chipp" F. Walters, Altuit Design
- Elizabeth L. Whittaker, AIA,
Merge Architects
- Terry Yeargan, DPR Construction Inc.

Remember This

If you were fortunate to witness the sketching talents of Associate Professor of Industrial Design Bryan Laffitte, you'll appreciate one of his earlier works.

Created over 20 years ago, this is Laffitte's first drawing for the design of a robot that used a "steerable tread." The client requested that the robot be able to function in any terrain. The vehicle was radio controlled for scouting ahead in dangerous situations, transmitted information from a range of cameras, and was fitted with chemical sensors.



Stay Connected

As a member of the Design Pack, you are important to us! Update your contact information; stay abreast of news, lectures, and events; follow us on our social channels; and share your Designlife journey of achievements and accolades. Visit design.ncsu.edu/connect.

NC STATE Design

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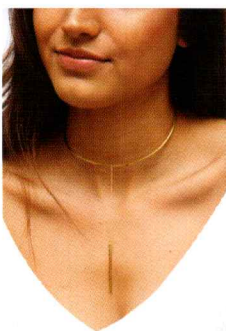
Find us on Facebook (NC State College of Design), Instagram (@ncstatedesign), LinkedIn (NC State University College of Design), and Twitter (@ncstatedesign)

Things We Like

- Kerrigan Barrington, a senior in Art + Design, is an artist and designer from Raleigh, NC, who is passionate about working with people and making things happen. She enjoys helping a community achieve their goals through her knack for problem solving and technical skills and especially enjoys working with a combination of traditional and digital practices for illustration. Her print collection features North Carolina cities and schools. This NC State note card is available for purchase. Visit: kerriganbarrington.com.



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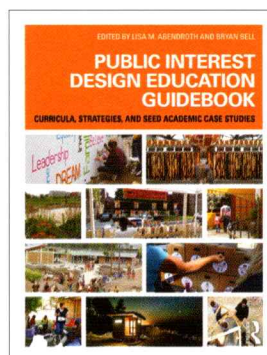


- HEIRIRALEIGH was started by Sophie Wiseman-Floyd [BID '18] during her junior year and has continued to be an outlet for the skills and material techniques she has accumulated since arriving at NC State College of Design. She uses gold-filled chain, wire, raw brass, leather, and natural crystals to handcraft elegant, minimalist jewelry. HEIRIRALEIGH's name is a tribute to what she has learned in school and in life since moving to Raleigh in 2014. "I am so grateful to have been the heir to a wealth of knowledge that I've poured into my designs. No matter where I go, my jewelry and leather products will always be a lasting testament to the experience I gained at NC State design school and Raleigh." Instagram: @Heir.raleigh, website: heir-raleigh.com.



- Melvin Melchor [BID '17] released his first signature sneaker, the FAST BREAK. This was a collaboration with We Are Underdogs, a brand under Portugal Footwear

and PENSOLE Design Academy. The design process began his senior year as part of his inclusion in the 2017 World Sneaker Championship where he was one of the top eight finalists. He was able to see his design through the production and release. Purchase the FAST BREAK at weareunderdogs.com.



- Associate Professor of Architecture Byran Bell has a new publication, *Public Interest Design Education Guidebook: Curricula, Strategies, and SEED Academic Case Studies*, the second in a series of PID books that includes work and ideas from more than 60 thought leaders that are shaping the curriculum of public interest design. Featured chapter themes include fundamental skills, intercultural competencies, engaging the field experience, inclusive iteration, and evaluating student learning. Published by Routledge, 2018.