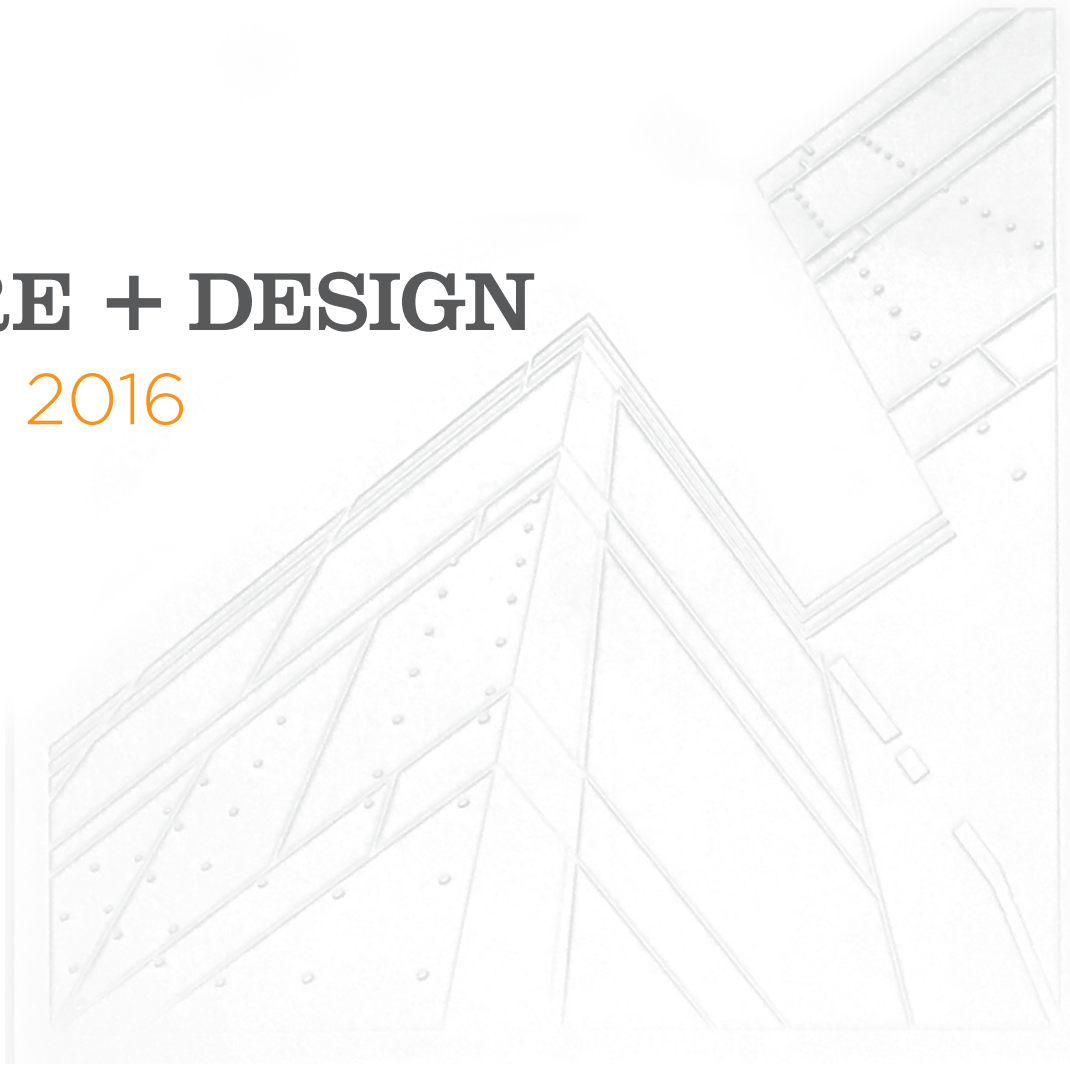
# COLLEGE OF ARCHITECTURE + DESIGN

## ANNUAL REPORT 2016



THE UNIVERSITY OF TENNESSEE KNOXVILLE

The award-winning Art + Architecture Building supports the collaborative culture of the college with studio and lecture spaces, two galleries, an auditorium, a woodshop, faculty offices, student review areas, and gathering spaces.

JEFF GOLDBERG/ESTO

Dear Alumni and Friends,

As I stood in front of our freshman class last August, I was prepared to rally the students, charge them to give their all, challenge them to be curious, and empower them to immerse themselves in this exceptional college.

**But a strange thing happened.**

I was the one who was inspired and challenged. I was reminded that our freshmen—our entire student body—deserve our very best. They deserve faculty who are next-generation thinkers and facilities that are among the best in the nation. They deserve an innovative curriculum and opportunities to explore. Our students deserve to leave this university with low student debt and a chance to prove themselves in the professional world.

As you'll read in this report, that's what 2016 was all about: the drive to do our very best for our students.

**And a strange thing happened.**

As we pushed ourselves to succeed, our students rose to the challenge. This college is truly an exceptional place. Led by award-winning faculty, our college—your college—reached new heights in 2016 and is entering 2017 with incredible momentum.

In our college hangs a banner that reads "Year 51 . . . What will you do with it?" I hope you will join our journey to the top as we prepare for greatness in Year 51 and beyond. Thank you for your continuing support.

Scott Poole, FAIA
Dean

The College of Architecture + Design celebrated

**50 YEARS**

with

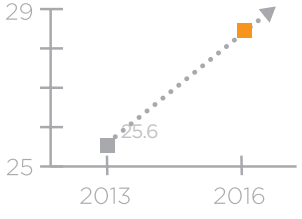
**750**

**ALUMNI & FRIENDS**

**28.4**

**AVERAGE ACT SCORE**

of incoming architecture freshmen




**4.09**

**AVERAGE GPA**

of incoming architecture freshmen

**17**

**INTERNATIONAL AND EXCHANGE STUDENTS**

**1ST**

**STUDENT FROM KUWAIT**

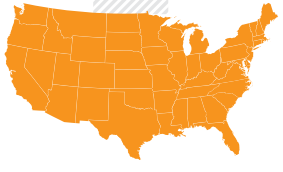
**20%**

OF STUDENT BODY WERE MINORITY STUDENTS

**30%**

**INCREASE IN OUT-OF-STATE ENROLLMENTS**

from 2013 to 2016



90.3% OF STUDENTS HAD FINANCIAL AID OR SCHOLARSHIPS

**TOTALING**

**$5.7 MILLION**

**1:12**

**FACULTY-TO-STUDENT RATIO**

one of the best in the country

UNDERGRADUATE ARCHITECTURE ranked

# 10TH

OF PUBLIC SCHOOLS

# 25TH

OVERALL

Source: 2016–17 DesignIntelligence

## NEW DUAL DEGREE PROGRAM:

Master of Architecture + Master of Landscape Architecture

NEW INDUSTRIAL DESIGN MINOR WITH 4 COURSES

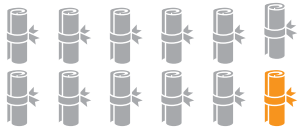
# 80%

INCREASE IN UNDERGRADUATE APPLICATIONS from 2013 to 2016

# 53

FIRMS FROM 11 STATES AT CAREER DAY

up from 37 in 2015 and 3 in 2012



# 12TH

HONORARY DOCTORATE in UT's history presented to alumna ROBIN KLEHR AVIA

# 300+

people attended GENERAL SHALE LECTURE featuring Thom Mayne

# $30K

RAISED during the 50th anniversary toward purchase of

# FAB LAB BUILDING

Students, faculty, city officials, and others cut the ribbon on the Beardsley Farm Education Center.

## Beardsley Farm

Students from all three schools, led by Jennifer Akerman and Bob French, joined Knoxville Mayor Madeline Rogero (who's also an alumna) and officials to cut the ribbon on a new education center and amphitheater for Beardsley Farm. The education center was designed and largely built by the UT team through the college's successful design/build program, which celebrated 40 years in 2016. The architecture is designed to advance Beardsley Farm's mission of engaging the community by creating meaningful public space for the benefit of local residents, volunteers, and the farm staff. The center provides a classroom, office space, restrooms, and more for Knoxville's community farm.

## The Appalachia Project

This collaborative effort of the College of Architecture and Design, the College of Nursing, the Tickle College of Engineering, and UT's Law Enforcement Innovation Center received a national C. Peter McGrath/W. K. Kellogg Exemplary Program designation. The effort included a water kiosk designed and built by students for 9,000 families in the Red Bird community in Clay County, Kentucky.

**THE BEARDSLEY FARM EDUCATION CENTER**

EARNED THE

**2016 HIGHEST HONOR AWARD**

FROM AIA EAST TN

**50 STUDENTS**

FROM ALL THREE SCHOOLS PARTICIPATED IN THE PROJECT

CITED IN THE

**Top 7**

**STELLAR DESIGN/BUILD PROGRAMS REPORT**

by the Association of Collegiate Schools of Architecture

## FAB LAB

**$130,000**
RAISED OR EARMARKED FOR PURCHASE OF THE $1.4M BUILDING

**330** HOURS ON CNC ROUTER

**300+** STUDENT PROJECTS
created on CNC router and water-jet cutter

**129,921** FEET
of filament used in 3-D printers

**200** PEOPLE TOURED

**100** K–12 STUDENTS VISITED

**4** FOUR LECTURES HOSTED

2015–16

## Fab Lab

The Fab Lab is a 20,000-square-foot maker space in the heart of Knoxville's urban renewal. It features a studio, a gallery, and two floors of an industrial fabrication laboratory offering 3-D printers, CNC routers, a water-jet cutter, laser cutters, an x-axis mill, robotics, and metal and woodworking equipment. Students and faculty use the 21st-century space for exploration and education.

Watch a video about the Fab Lab at **archdesign.utk.edu/fablab**.

## Interior Design

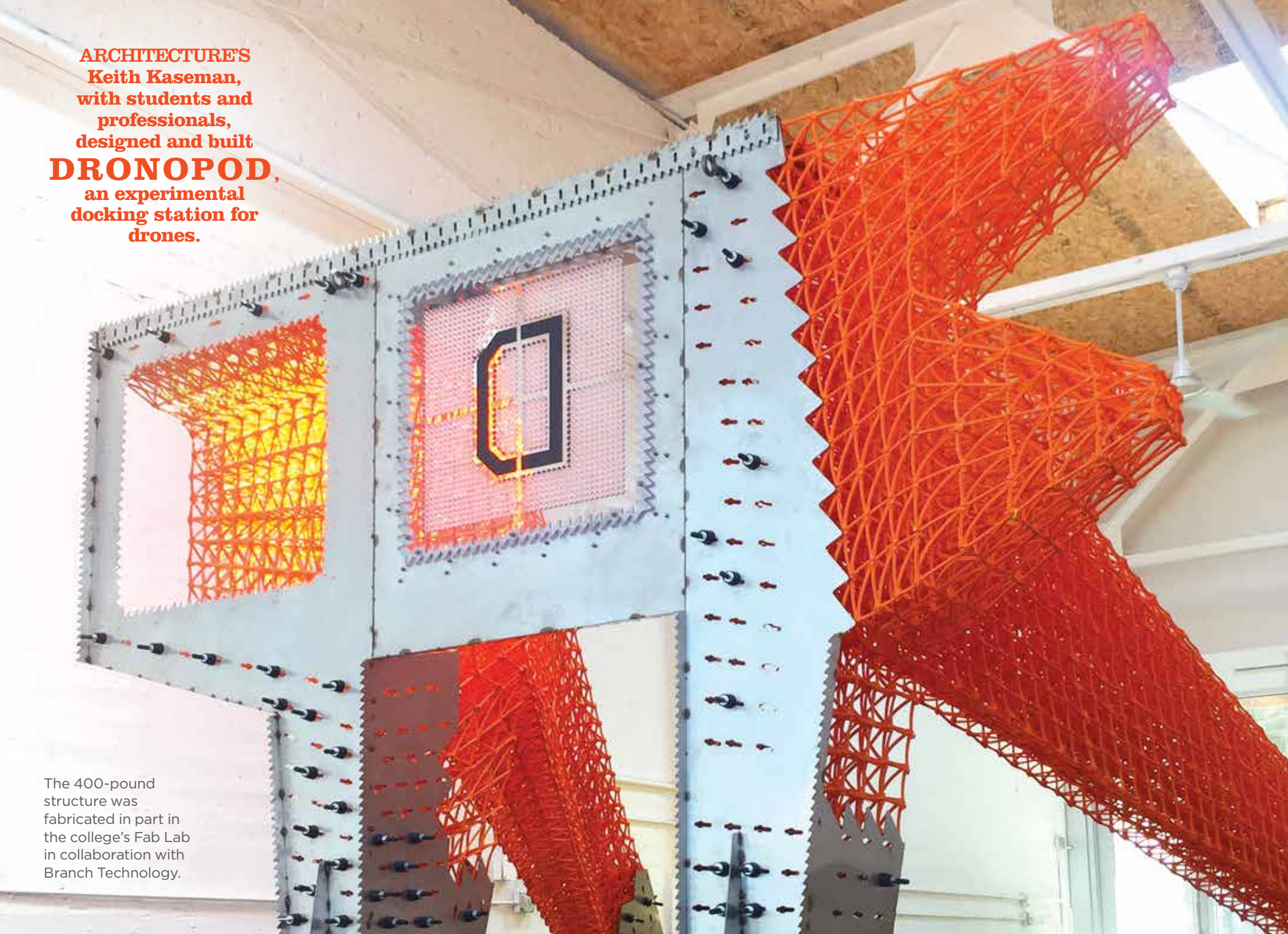
Student enrollment increased by 122 percent, from 51 in 2013 to 113 in 2016. Interior design students now have access to ImmersaCAD to view their designs in 3-D reality.

## Industrial Design Minor

The first cohort in the college's new industrial design minor was led by interior design faculty Rana Abudayyeh, Ryann Aoukar, and Whitney Manahan and included students in engineering, business, humanities, architecture, and interior design. Open to all UT students, the minor provides introductory experiences in generating, visualizing, and prototyping innovative concepts. Students learn basic industrial design processes and use of technology, communication techniques, and problem solving.

Students from the college's new industrial design minor celebrate after their final review with prototypes of commercial hair dryers they designed and fabricated in the college's Fab Lab.

**ARCHITECTURE'S Keith Kaseman, with students and professionals, designed and built DRONOPOD, an experimental docking station for drones.**



The 400-pound structure was fabricated in part in the college's Fab Lab in collaboration with Branch Technology.

ARCHITECTURE'S
**James Rose**
was named one of the
# 25
**MOST ADMIRED EDUCATORS OF 2016**

by DesignIntelligence

Interior design's Ryann Aoukar earned the honor in 2015

DEAN
**Scott Poole**
was elevated to the
# AIA COLLEGE OF FELLOWS

LANDSCAPE ARCHITECTURE'S
**Brad Collett**
spent the semester teaching and researching in Slovenia as a
# FULBRIGHT SCHOLAR

ARCHITECTURE'S
**Ted Shelton & Tricia Stuth**
WERE SELECTED AS

in recognition of their investigation of historic preservation and design

**Hansjoerg Goeritz and team**
designed an
# EXHIBIT IN SWEDEN
to celebrate the 50th anniversary of Sigurd Lewerentz's Church of St. Peter, an architectural masterpiece

ARCHITECTURE'S
**Marleen and T. K. Davis**
were recognized with the
# AIA TENNESSEE SAMUEL MORGAN LIFETIME SERVICE AWARD
for Contribution to Architecture in the Public Realm

**Darius Ammon**
was named the inaugural
# ARCHITECTURE FELLOW
to enrich design education in the school

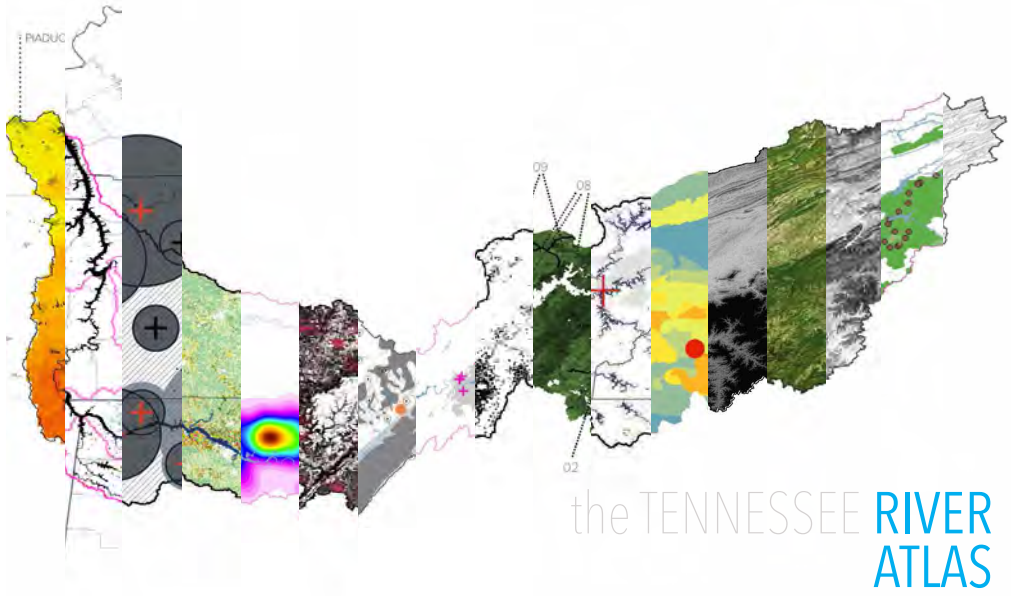
ON FACULTY

**7**
**FULBRIGHT SCHOLARS**

**5**
**AIA FELLOWS**

Associate Professor
**Katherine Ambroziak**
was named
# INTERIM ASSOCIATE DEAN
for academics & research

**As part of the new Governor's Chair Tennessee River Studio, led by Brad Collett, students in architecture and landscape architecture trekked more than a thousand miles on a tour of the Tennessee River. The five-day tour crossed four states to bring the group face-to-face with people who influence and interact with the river, often called the Amazon of North America.**




The studio investigated 21st-century challenges facing the Tennessee River and its 40,000-square-mile watershed, examining how those who live, work, and engage with the river can understand and mitigate challenges and take advantage of its untapped potential. Students used their extensive research to inform design solutions and create a comprehensive atlas of the watershed, to be published in spring 2017.

Watch a video about the studio at **archdesign.utk.edu/governorschair**.

The college's photography drone captures a sunset image near the confluence of the Hiwassee and Tennessee Rivers.

JEFF GOLDBERG/ESTO

The college continually works to upgrade technology and resources for students and faculty in both the Art + Architecture Building and the downtown Fab Lab.

**IMPROVEMENTS**
to the Art + Architecture Building

Computer lab

**CONVERSION TO VIRTUALIZED MACHINES**

for greater flexibility and access to high-end workstations

Addition of

**3 PLOTTERS**

for students to have

**24/7 ACCESS**

**TO LARGE-FORMAT PRINTING**

## AMIE

This additive manufactured integrated-energy structure and vehicle, which generate and share energy, received worldwide acclaim and captured top awards, including Architizer's A+ People's Choice Award for Best 3-D-Printed Building in the World, Emerald Green Building Innovation Award from the U.S. Green Building Council, and an Innovation by Design Award Honorable Mention from Fast Company. It also was presented at the National AIA Convention and displayed nationally. AMIE was designed by an interdisciplinary team of design professionals, engineers, and scientists; students led by James Rose explored designs in additive manufacturing in parallel with the AMIE work. AMIE is a project of the Governor's Chair for High Performance Energy Practices in Urban Environments, a partnership of UT; Oak Ridge National Laboratory; and Skidmore, Owings & Merrill.

Watch a video about AMIE at **archdesign.utk.edu/governorschair**.

**A priority for the college is to enrich the education of all students with a student body that is diverse in geography, race, intellectual ideology, ethnicity, culture, and other aspects. In 2015–16, students represented 24 states from Washington to New York, and about 20 percent were minority students.**

## Top Scholars

Three students in the college are Haslam Scholars, members of the university's most prestigious honors program, which admits only 15 students annually. **Mike Lidwin**, a second-year architecture student from Chantilly, Virginia, finds the culture of the college to be unparalleled. **Autumn Ragland**, who hails from Memphis, and **Aubrey Bader**, from Charlotte, North Carolina, are both first-year architecture students. Ragland is pursuing humanitarian architecture and studying its social implications with plans to serve in Central America. Bader became interested in architecture during a high school exploration program with Perkins + Will. She originally considered engineering as a major but was attracted by the college's studio culture and innovative design education experiences.

## National Honors

**Taylor Odom**, a fourth-year student in interior design, received the prestigious Gensler Brinkmann Scholarship and an opportunity to intern with Gensler. Her second-place winning submission depicts an adaptable user-driven workspace that invites innovation and collaboration. Watch a video about Odom and her winning project at **archdesign.utk.edu/students**.

Recent interior design graduate **Erin Collins** placed first in 2015 and presently works at Gensler in New York.

**Led by faculty member Kevin Stevens, architecture students** earned an honorable mention in the ACSA-AISC 16th annual Steel Design Student Competition for their inspired design of a Chicago skyscraper. This is the second year in a row for a winning design from UT.

**Students in the College of Architecture and Design are curious learners, eager to impact society with creativity and imagination. These three designs are representative of the transformative design education all of the students in the college receive every day from extraordinary faculty. Enjoy.**

## Architecture: Trevor Mayes

Fifth-Year Diploma Studio
Professor: Mark Stanley

## Interior Design: Taylor Odom

Third-Year Intermediate Studio
Professor: Rana Abudayyeh

## Landscape Architecture: Paul Bamson

Second-Year Governor's Chair
Tennessee River Studio
Professor: Brad Collett

DATA CORES

TAYLOR ODOM | INTERIOR DESIGN

archdesign.utk.edu/academics

Haslam Scholars Aubrey Bader, Autumn Ragland, and Mike Lidwin.

# LEGACY

Professor Show and Tell at first TAAST
**1986**

Estabrook Hall, approx.
**1966**

An Estabrook Hall studio, approx.
**1967**

Critique in Estabrook Hall, approx.
**1970**

## Barbecue and bluegrass . . . tours and tailgating . . . golf and a gala. This celebration was 50 years in the making.

In April, the college commemorated its 50th anniversary with a collegial mix of alumni, students, faculty, and friends who gathered, reminisced, and reconnected. More than 750 people took part in the anniversary celebration, from buying a T-shirt to attending the three-day event. The celebration raised $30,000 toward the purchase of the Fab Lab building.

See highlights of the celebration at **archdesign.utk.edu/50th**.

## The college thanks the sponsors of the 50th anniversary celebration:

**Platinum**
General Shale

**Gold**
McCarty Holsaple McCarty
BarberMcMurry Architects

**Silver**
Skidmore, Owings & Merrill

**Bronze**
Workspace Interiors
Hastings Architecture Associates
Moriyama & Teshima Planners
George Armour Ewart Architect
KBJM Architecture
ESa
Clayton

**Patrons**
13 generous companies and individuals

## Top 10

The School of Architecture's undergraduate program ranked 10th among public universities in the Design Futures Council's 2016–17 DesignIntelligence report, up three places from the 2016 ranking. The program ranked second in the Southeastern Conference and 25th—up two places from last year—among public and private universities. The report is considered by the design industry to be the foremost source of rankings for design programs. It measures professionals' direct experience with graduates as an indication of how well schools are preparing students for successful futures.

In its 42-year history, the **Robert B. Church Memorial Lecture Series** has hosted nearly 280 speakers.

**Daniel Scheaffer ('02 BArch)** was awarded the AIA Young Architects Award for his exceptional leadership, commitment to service, and contributions to health care architecture.

## Architect Registration Examination (ARE)

**For six years in a row, UT graduates have outscored those from any other school in the Southeastern Conference on the Architect Registration Examination. UT grads have scored at or above the national average more often than any other SEC school.**

**519** ARE tests were taken in 2015

More than any other SEC school

SINCE 2010

**75%**

AVERAGE PASS RATE

WELL ABOVE THE NATIONAL AVERAGE OF 67%

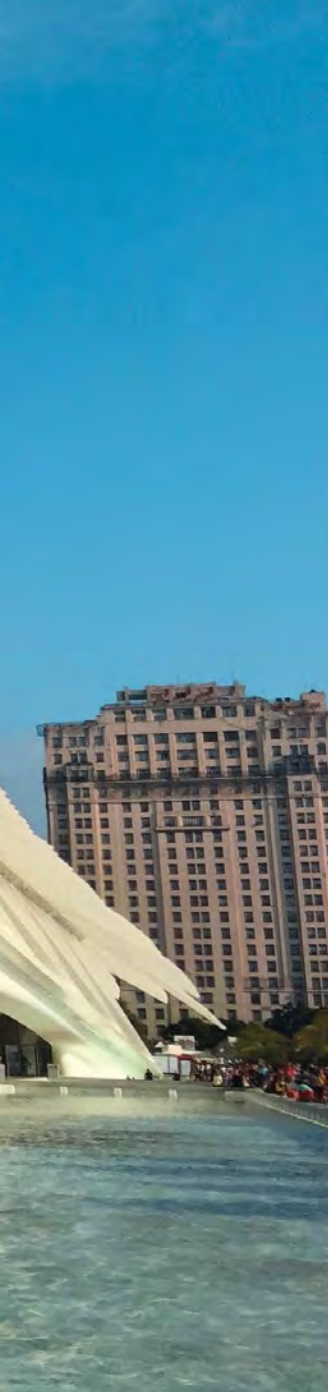
SINCE 2010

**88%**

OF TESTS TAKEN BY UT GRADS HAVE REACHED SCORES AT OR ABOVE the national average

The Fab Lab, a 20,000-square-foot maker space in downtown Knoxville, gives students and faculty opportunities to explore and learn. Technology includes CNC routers, a water-jet cutter, an x-axis mill, robotics, laser cutters, 3-D printers, and a well-appointed woodshop.

Catherine Dozier captured this image of the Museu do Amanhã (Museum of Tomorrow) in Rio de Janeiro, Brazil, during her summer abroad. Off-campus study is encouraged (and required in the School of Architecture) to enrich the experience and knowledge of students and better prepare them for successful careers.





**The opening of Cuba to US visitors in 2016 will create new study abroad opportunities for students throughout the college. Faculty met with schools in Cuba as a step toward establishing a mini-term experience that will focus on urbanism, design, and culture.**

## Aydelott Travel Award

Graduate student in architecture Catherine Dozier explored the architecture of 15 cities across three continents as the inaugural recipient of the $20,000 Aydelott Travel Award. Her summer-long journey took her through Finland, China, Japan, and Brazil as she learned the importance of cultural identity and studied its presence in public architecture.

### EXCHANGE PROGRAM

THE COLLEGE BEGAN A STUDY ABROAD PROGRAM IN **POLAND** 25 years ago

**500+ STUDENTS**
HAVE EXPERIENCED KNOXVILLE & KRAKOW

**STUDENTS**
STUDIED ABROAD IN
**4 INTERNATIONAL PROGRAMS LAST YEAR**
Over 25 years, they have explored more than 15 countries

IN THE SCHOOL OF ARCHITECTURE
**ALL STUDENTS MUST NOW STUDY OFF CAMPUS**
for a semester

**The college held its first-ever strategic planning retreat that called on stakeholders representing students, faculty, staff, administrators, board members, and alumni—30 in all—to help develop its strategic direction to 2020 and beyond.**

## Student Internships

Students gained valuable experience in internships at more than 40 firms in seven states and two countries.

## Urban Design

Students in T. K. Davis's Urban Design Studio at the Nashville Civic Design Center envisioned new uses of the city's circa 1906 Neuhoff slaughterhouse after touring the 600,000-square-foot property. Designs included rooftop dining spaces, full glass walls, and sustainable options including microhousing created from reclaimed shipping containers. Landscape architecture student Ruxin Tao received a Student Design Award of Merit from the Tennessee American Society of Landscape Architects for his work in the studio. In an example of the college's interdisciplinary studio collaborations, Tao teamed with architecture students Journey Roth and Brittany Peters to design an arts district near the Neuhoff building. This year marked the 16th anniversary of the founding of NCDC by Professor Emeritus Mark Schimmenti and others to engage citizens in the future of the city.

Right: Thom Mayne, principal of Morphosis, delivered the General Shale Lecture in April. The General Shale Lecture Series is a successful 20-year partnership between the college and the building materials manufacturer. The day after addressing more than 300 professionals and community members, Mayne gave his time and expertise to review students' work. Watch a video of Mayne's lecture at **archdesign.utk.edu/50th**.

Component designed for Local Motors by students Dillon Dunn, Tori Placher, Kyle Pritchard, and Mustapha Williams in one of two Governor's Chair studios.

**Since 2014, the college has collaborated with Oak Ridge National Laboratory and Skidmore, Owings & Merrill through the Governor's Chair for High Performance Energy Practices in Urban Environments. James Rose led his fifth Governor's Chair studio with an exploration of large-scale additive manufacturing by partnering with Local Motors, an innovative co-creation manufacturer with microfactories around the world. Rose's students worked with leaders of the Knoxville microfactory to design and fabricate an entirely 3-D-printed polymer screen wall for the facility, prototyping their designs first in the college's Fab Lab. Students have also collaborated with the Tennessee Valley Authority on new uses and designs for the agency's downtown Knoxville buildings.**

## Help for Haiti

Hurricane Matthew swept across Haiti as a Category 4 storm, leaving behind destruction and death. Hard hit was a small village called Fond-des-Blancs, which has close ties to the college. Over the past six years, John McRae has led more than 70 students to design structures for Fond-des-Blancs, including a medical facility, housing, and a school.

When the storm tore away a roofing system at the school's sports field, the college immediately took action. Through UT's crowdsourcing platform, VOLstarter, and the generosity of alumni, students, faculty, and friends, the college raised nearly $5,000 to replace the much-needed roofing system.

**The college developed a well-vetted comprehensive strategic plan toward 2020, with two top priorities:**

1. **Increase scholarships for students as part of a goal to improve undergraduate and graduate recruitment.**
2. **Secure resources in the Fab Lab by purchasing the building for $1.4 million.**

## 2020 Strategic Priorities

The college invites collaboration and seeks support as it works to accomplish these strategic priorities in alignment with the university-wide Vol Vision 2020 plan:

### UNDERGRADUATE EDUCATION

Recruit, enrich, graduate, and place undergraduate students who are prepared to enter the global community as lifelong learners and authentic leaders

### GRADUATE EDUCATION

Strengthen graduate education through an emphasis on excellence and improvement of the graduate student experience

### RESEARCH & ENGAGEMENT

Strengthen capacity, productivity, and recognition across our total portfolio of research, scholarship, creative activity, and engagement

### FACULTY & STAFF

Attract, retain, and recognize stellar faculty and staff who strive for excellence and proudly embody Volunteer values

### INFRASTRUCTURE AND RESOURCES

Develop a resource base for the future; continue transformation of campus infrastructure

### DIVERSITY & INCLUSION

Enhance diversity and inclusion to benefit our campus

Students visit the college's photo booth on Welcome Back Day, an annual college-wide celebration that also connects peer mentors with new students.

For the past eight summers, high school students from across the country have come to Big Orange Country for Design Matters! Camp, where they experience an immersive week of design and gain hands-on opportunities to develop solutions that impact society.

**Students, faculty, and staff are challenged to think beyond the college's 50th anniversary and focus on the future, beginning with Year 51.**

## Top Challenges

Our current work is guided by four top priorities:

- To gain a competitive edge in student recruiting, the college seeks additional scholarships.
- Students need more opportunities for internships while in school to gain experience and provide assistance to firms.
- The college is in the process of raising $1.4M to purchase the building in which its Fab Lab operates, freeing $90,000 a year in lease expenditures to go toward student scholarships.
- Long-term industry partners are needed to enrich the education of students and opportunities for faculty.

Learn more about Year 51 and watch a video on the impact of gifts to the college at **archdesign.utk.edu/strategicplan**.

For more information about our plans for meeting these challenges and how you can help, **contact Dean Scott Poole, 865-974-5267 or scott.poole@utk.edu**.

## Dottie Sanders Endowed Scholarship

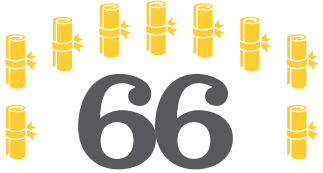
Throughout her lifetime, interior design alumna Dorothy "Dottie" Sanders ('57) was a generous donor to the university. She passed away in May 2015 and left a substantial gift, creating a lasting endowment that will provide a $14,000 scholarship each year for interior design students. Endowed scholarships not only help students but also give the college a competitive edge in student recruiting.



**ALUMNI DONATIONS GENERATED**

**$135K**

**IN SCHOLARSHIPS**



**66**

**SCHOLARSHIPS WERE AWARDED TO**

**406**

**STUDENTS**




**$150K+**

**SPENT ON DESIGN AND FABRICATION EQUIPMENT, STUDENT WORK STATIONS, AND TECHNOLOGY UPGRADES**

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Students from one of the Governor's Chair Studios pause outside the Fab Lab. All students in the college can access the Fab Lab's advanced technology to explore and learn.

THE UNIVERSITY OF TENNESSEE KNOXVILLE

COLLEGE OF
ARCHITECTURE + DESIGN

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archdesign.utk.edu
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# EDUCATE TO INSPIRE.
# DESIGN TO TRANSFORM.
# EXPLORE TO DISCOVER.

On the cover: Art + Architecture Building, designed by McCarty Holsaple McCarty Architects & Interior Designers