Our diversity enhances our creativity. These words from the Welcome Goal of our college’s strategic plan reflect the plurality of our learning community and the value each student brings to our explorations of the built environment. This issue of Connections features stories about CAED students, faculty, staff and alumni as they engage in work that embraces diverse perspectives and creates inclusive places.

On the Cal Poly campus, there are many exciting initiatives, such as a public lecture series led by our new Student Diversity and Inclusion Committee. In our classes, CAED students and faculty collaborate across disciplines and with communities. This year, we are especially proud of our Integrated Project Delivery studio where students designed and helped construct a prototype replacement house for Weed, California in the aftermath of the Boles fire. It earned faculty members Dennis Bashaw (ARCE), Maggie Kirk (ARCH) and Greg Starzyk (CM) a 2018 Cal Poly President’s Service Learning Award.

Our students are inspired by CAED alumni who engage voices that lead to innovative ideas. Phil Serna (MCRP ’94), our 2018 Honored Alumnus and First District supervisor of Sacramento County, empowers community members and shapes creative policies that address complex urban challenges. Donna Clandening (ARCE ’87) chief strategy officer at AC Martin, received the Los Angeles Society for Marketing Professional Services Leonardo Award for her multi-faceted, visionary leadership in the A/E/C community. And a member of our faculty, Andrew Goodwin (ARCH ’08), received the prestigious Norma Sklarek Award bestowed by the AIA California Council. Andrew and his students have worked with the Skid Row Housing Trust and other organizations dedicated to providing housing and services to homeless residents. Please join me in congratulating Phil, Donna and Andrew for their extraordinary achievements!

The following pages celebrate many more accolades. We owe every one of them to the dedicated staff who support our students and faculty every day. In addition to the expert professionals who sustain the college’s programs, the CAED team includes talented part-time student employees. They assist with teaching and research, in campus offices, studios, shops and labs, and in the Neel Resource Center. Most importantly, they bring valuable perspectives that help us better serve all students. We call their work “earn by doing.” Every job is a learning experience that makes a difference. The next time you are on campus, I invite you to say hello to some of our student staff and ask them about their work and their dreams. I know you will be as impressed with them as I am.

Our alumni and friends enrich our diversity and stand ready to help us share the tradition of Learn by Doing. Thank you for all you do to welcome our prospective students, students and graduates into careers that will shape the built environment and the future.

Christine Theodoropoulos, AIA, PE
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Stay connected with the CAED at www.caed.calpoly.edu
College of Architecture and Environmental Design (CAED) alumni navigate unique career and life paths with diverse work environments that provide many touch points to their interdisciplinary learning at Cal Poly. Donna (Endo) Clandening’s career is as varied as it is unique. She graduated from Cal Poly with the architectural engineering (ARCE) class of 1987, and today is a principal and the chief strategy officer at AC Martin, one of Los Angeles’ most prominent and historic architecture and design firms. She attributes her broad work experience to the diverse education she received as a CAED student.

She has many fond memories of CAED life:

- The wonderful ARCE instructors
- Late nights (and early mornings) in lab
- Professor Mike Botwin’s grading system of Bogey, Par, Birdie, Eagle, Hole-in-One
- Howard Weisenthal’s ARCH 201 group project: built and designed around a themed word, such as “adventurous”
- Vern Swanson’s Architecture History class
- Attending the city of Morro Bay Planning Commission meeting for CRP class

“The interdisciplinary education that I received at Cal Poly has been incredibly valuable to me throughout my career,” Donna said. “The tangible aspects of the curriculum outside of the ARCE classes — design courses, architecture history courses, attending a planning commission meeting, construction economics, etc. — provided me a holistic understanding of the design and construction industry, the ability to speak a common language with others in our industry and a knowledge base of how a project develops.”

“But the intangibles are just as influential,” she added.

“Getting a project designed and built is not a single disciplinary endeavor. It is a team sport, one that relies on members from several different disciplines working together to achieve a single goal. With the common curriculum for the first two years, we were able to interface with students from the different disciplines and gain an appreciation for what others do on a day-to-day basis. That appreciation goes beyond speaking a common vocabulary. It provides insights and the early basis of teamwork, which is so important in our industry.”

With the prevalence of alternative delivery methods that rely on multi-disciplinary teams and collaboration, her ability to successfully guide projects and initiatives is a tribute to the nature of CAED education where she learned to appreciate “different perspectives and different types of education.”

Donna’s career path started as an intern working with an architecture firm. After graduation, she worked for a structural engineering firm, before joining a multi-disciplinary engineering firm where she managed projects and transitioned into a business development role. Using her experience in business development, she moved to a design-build firm as the vice president of sales and marketing where she honed her skills in estimating and bidding.

Her current role at AC Martin brings her full circle and is the culmination of the breadth of her career experiences. She started as the marketing director, but her role has morphed into the chief strategy officer. As the name implies, she plans, provides input and helps forecast company initiatives which address the present and the future success of the company. Her role includes developing approaches for pursuing major projects, teaming strategies, proposal and interview strategies, and competitor analysis. Her responsibilities include client development and relationship building, public relations, community outreach, personnel recruitment (to fulfill the company strategic vision plan), and development of education and professional growth programs. She serves on the firm’s Executive Committee, Mergers and Acquisitions Committee and the Succession Planning Committee.

Recently, Donna was recognized for her impactful contributions to the marketing industry. She was awarded the SMPS Leonardo Award which recognizes individuals who are multi-faceted, with attributes similar to Leonardo da Vinci —
visionary, versatile, observant and creative. The key criteria used to vet the award submissions were tied to transformation, contribution, learning and holistic improvement.

When asked to comment on two of the criteria, both reflect her commitment to learning and the future:

**VOLUNTEERISM**

“I strongly believe that volunteering in professional and community organizations enriches the organizations that we support as well as enriches our industry as a whole. For example, the AC Martin-sponsored Architecture Merit Badge Day for the Boy Scouts is one of the most rewarding and challenging events. Encouraging Scouts to explore the design and construction industry, as a future education and career path, helps to ensure that our industry will thrive. The same goes for participation in the ACE Mentor program. I was fortunate to participate in this year’s ACE Mentor Scholarship submission review and was amazed by the talent demonstrated by high school students. Participating in an organization whose primary mission is to encourage students to explore careers in architecture, engineering and construction is incredibly fulfilling.”

**CONTINUED EDUCATION AND LEARNING**

“Education is a hallmark of my volunteer activities as well as forming the basis for the future of our industry.”

“I participate at three different levels — engaging school-age students to develop an interest in the A/E/C industry; participating on two advisory boards at Cal Poly to promote and advance the academic aspirations for the College and working with the continuing education and development of professionals at AC Martin.”

Donna possesses a broad skill set and credits her success to her background as a “former practitioner.” She recommends that graduates entering built environment fields learn everything about the design and construction industry — from start to finish, every phase of a project. Who are the parties involved? How is a project funded? What makes a project successful? What can impede its success?

Donna was fortunate to experience a Cal Poly education that emphasized a diverse curriculum, where she was able to connect the fields of architecture, engineering and construction. As if imparting wisdom to the next generation of graduates, she says:

“In a time when so much emphasis is placed on specialization, strength can be found in educating yourself about the whole of our industry, not isolating disciplines and skills. Read voraciously, and absorb all you can about new designers, new project delivery models and the latest in new engineering technologies. Learn the language, so you can demonstrate a level of understanding to a potential client. Be fearless and stay resolute to your convictions. Be relentless. Be respectful. And give back — participate in community organizations. This provides you with insights not found in the corporate world and helps you gain a better understanding of people from all walks of life.”
The Cal Poly Alumni Association has added Phil Serna (M. City and Regional Planning ’94) to its distinguished roster of honored alumni. He is an extraordinary role model for Cal Poly students seeking pathways to impactful leadership.

The Honored Alumni Award is the highest honor bestowed upon Cal Poly alumni by the association. Each year, the College of Architecture and Environmental Design (CAED) nominates one of our most esteemed alumni for this honor, and the honoree takes part in Alumni Weekend celebrations for all of the honorees from the university’s six academic colleges, athletics and the Alumni Association.

Phil grew up in Sacramento’s Curtis Park neighborhood. He credits his father — Joe Serna Jr., Sacramento’s first Latino mayor and professor of government at Sacramento State — for introducing him to the transformative possibilities of public service and education. He tells us, “Growing up in a home where community engagement and civic leadership was a part of everyday life, I learned at a young age that it is not enough to sit on the sidelines and let government happen to you. A commitment to lead, and the privilege of representing a community, is about ensuring everyone has a voice in shaping the public policies governing our lives.”

After completing undergraduate studies at Sac State, Phil earned a Master of City and Regional Planning degree with honors from Cal Poly. He remembers Learn by Doing under the guidance of city and regional planning faculty Linda Dalton and Paul Wack, whose teaching nurtured his ability to think critically with an eye toward real-world problem solving. Phil said such critical thinking is essential to good governance and effective leadership.

Interdisciplinary study in the CAED also shaped Phil’s destiny. He met his spouse, Roxanna Recinos-Serna (Architecture ’94), on a San Francisco field trip led by emeritus architecture faculty Brian Kesner for students enrolled in both housing and urban design labs.

Phil and Roxanna began their careers in the San Francisco Bay Area where Phil worked for an environmental and economics consulting firm before becoming vice president of governmental affairs for the Home Builders Association (HBA) of Northern California. At HBA, he collaborated with industry, citizen groups, local governments and developers to promote regional cooperation and advance smart growth. In 2004, he founded Serna Consulting LLC, a regional project management firm based in Sacramento. His experience as a planner, government liaison and manager of complex private-public partnerships, as well as his own personal activism, prepared him well for public service. He was elected to serve on the Sacramento County Board of Supervisors representing the first district in 2010. He has been re-elected twice, most recently this past June. His work in government is widely admired for empowering community members and for shaping creative policies to address complex challenges.

He is also an outspoken advocate for his community’s most vulnerable residents including those struggling with poverty or homelessness, who need access to health care, employment, shelter or protective services. In 2011, as a new county supervisor, he convened the Blue Ribbon Commission on Disproportionate African American Child Deaths. It was an urgent call for joint community and government action to solve chronic problems that would save children’s lives. The commission’s work served The Black Child Legacy Campaign, and its goal to reduce deaths of African-American children in Sacramento County from 10 percent to 20 percent by 2020.

Phil’s insights into the interdependence of social and environmental planning and his compassion for humanity are informing Sacramento’s initiatives concerning homelessness and the American River Parkway. His proposal for a low-barrier Full Service Rehousing Shelter to serve Sacramento’s homeless families and residents was approved by the board of supervisors in 2017. The shelter and associated services respond to the needs of homeless individuals and families, especially those with their pets, possessions and partners who otherwise feel compelled to live outdoors on Parkway grounds. Through this and other measures, Phil is leading efforts to improve the county’s approach to affordable housing, addiction intervention services, mental health treatment and economic development that creates access to jobs.
He addresses the intersecting issues concerning Sacramento’s natural resources, advocating for ways to make them clean, safe and enjoyable:

“I believe that good stewardship and prudent management of our natural environment and resources — the 23-mile stretch of the American River Parkway for example — are essential and fundamental responsibilities that we all must share.”

“Good stewardship involves long-term strategic planning to minimize environmental damage while also expressing compassion for those in need. Cooperation between county residents, government leadership and agencies is critical.”

Phil’s energy is boundless. In addition to serving on numerous local boards and commissions, Gov. Jerry Brown appointed him to serve as the first-ever Sacramento delegate on the California Air Resources Board; he was unanimously confirmed by the Senate Rules Committee in 2014.

In what little spare time he finds, Phil has taught Geography of Economic Activity and Introduction to Urban Planning at Sac State, and he enjoys fly fishing on occasion. He frequently cooks for Roxanna, and he even plays bass guitar and drums with several local bands! One of his bands, UnSupervised, regularly performs charitable benefit concerts which inspired him to establish his own nonprofit, Music On A Mission. To date it has raised nearly $300,000 for everything from homeless youth shelter programs to Parkway clean-ups and scholarships for some of Sacramento County’s most deserving college-bound young people.

He recently moderated a panel on resilient design at a CAED alumni event in Sacramento and is currently helping Cal Poly develop a workshop for students interested in pursuing public service that will introduce them to other elected alumni from across California. When asked what he would like to see happen at Cal Poly today, Phil advocates for greater diversity.

“This world-renowned institution has an obligation to reflect who we are as proud Californians and as the rich, cultural mosaic that is America. I’m confident my alma mater can and will achieve this, and I stand ready to help.”
Cal Poly alumnus, faculty member and architect Andrew Goodwin was presented with the Norma Sklarek Award in 2017 for significant humanitarian contributions to society.

The American Institute of Architects, California Council (AIACC) established the award in 2014 in honor of the late Norma Sklarek, who in 1962 became the first black woman to earn an architecture license in California and later became the first to open her own firm. The award, modeled after the National AIA’s Whitney Young Award, recognizes individuals and organizations demonstrating social responsibility. Its first honoree was Doug Lowe (Architecture ’74), a Cal Poly Honored Alumnus and Goodwin’s mentor.

Goodwin earned his bachelor’s degree in architecture from Cal Poly in 2008 and has taught in the program since 2014. He leads the San Luis Obispo-based design consultancy firm Andrew Goodwin Designs. Previously, he co-founded and served as principal architect for ConsciousBuild Inc., a design, build and development firm with its roots in sustainability and design activism. He later created RED Studio Foundation, which provided socially responsible design services for nonprofits and employed student interns. In 2013, it became part of Journeyman International (JI), a nonprofit design organization founded by CAED alumni.

As part of JI, Goodwin was the lead designer and architect for a community center in the Sunzu Yacu village in Rwanda, which has helped to educate and provide a community space for hundreds of women and children in the northern province of the country. Goodwin also designed a system of primary care clinics and vocational schools for the African country of Mauritania as part of an effort championed by Dr. Ahmad Nooristani, founder of the SLO Noor Foundation.

Additionally, he co-founded and served as the inaugural editor-in-chief of PUBLIC Journal, a quarterly publication dedicated to providing a larger platform for the impact design movement. More recently, he partnered with the AIA California Central Coast Chapter to create the book, “Architecture of the Central Coast,” which will fund student scholarships with its proceeds.

He is both nonchalant and humble when discussing his work, a testament to his belief that giving back is a natural accompaniment to professional life. That belief is demonstrated through the assignments Andrew gives his students.

“Education is a gift. And I have the responsibility to pass that on to others.”

As a college student, Goodwin struggled to find stable housing, making the challenges of homelessness and housing particularly meaningful to him. In his course syllabi, he quotes Tim Culvahouse: “Architecture doesn’t just function; it expresses the human condition. It’s about human dignity. It’s about respect. It communicates identity and enables people to speak, to participate, to act.” For Goodwin, that quote embodies the approach he wants students to take with their projects. He encourages them to consider the human experience in their designs. He asks, “How do we dignify people? If you give a homeless person a shipping container to live in, they may no longer be homeless, but they are still missing out on the dignity that comes with having a window, a sink and a doorbell.”

It’s a concept reminiscent of words from the award’s namesake, Norma Sklarek: “Architecture should be working on improving the environment of people in their homes, in their places of work and their places of recreation. It should be functional and pleasant, not just in the image of the architect’s ego.” Or as Goodwin says, “It’s a service, not a product.”

Goodwin orchestrates opportunities for students to not only Learn by Doing, but learn by making a difference.
For the past few years, he has involved students in a collaboration with the Skid Row Housing Trust in Los Angeles as part of the third-year architectural studio that he teaches at Cal Poly. The Skid Row Housing Trust, a nonprofit that provides permanent supportive housing for homeless individuals, was also honored with the Norma Sklarek Award for collaborating within the architecture profession to directly affect the betterment of society. Under his guidance, students envisioned supportive housing projects for the community in Skid Row. They worked with the Skid Row Housing Trust, the Downtown Women’s Center in Los Angeles and Transitions Mental Health Association in San Luis Obispo, serving as their clients and point of contact for their work.

“Andrew is an inspiring role model for the next generation of architects,” CAED Dean Christine Theodoropoulos said. “He teaches students the value of design as a fusion of human caring and craft and opens doors for them to make a meaningful difference for the communities they serve.”

After fulfilling the challenging work of his overseas projects, Goodwin now focuses on local needs, including recent design work for the city of Guadalupe in its effort to refurbish a park and community center. He plans to continue his commitment to philanthropy by dedicating a percentage of his firm’s proceeds to pro-bono services.

Only 10 years into his career, Goodwin’s work has just begun. We look forward to seeing what else is in store.
If Cal Poly statistics are any indication, more women than ever are choosing construction as their desired profession. In fall 2018, for the second consecutive year, nearly one-quarter of the department’s incoming freshmen class was women — 28 out of 115 total incoming freshmen.

This steady increase in the number of women construction management (CM) students was one catalyst for CM faculty member Stacy Kolegraff to establish the Cal Poly Women in Construction (CPWIC) club. Dedicated to empowering women through mentorship, networking, community outreach and industry support — including scholarships — the club also aims to bolster people’s understanding of construction management.

“We want people to understand that construction management is not just swingin’ a hammer,” Kolegraff said. “A large percentage of our women students transfer from other majors such as architecture and architectural engineering because they didn’t know construction management existed. We want to gain more exposure for the program.”

The industry seems to be reaching a turning point, according to Kolegraff and others. “Our advisory board is saying they want us to have higher enrollment numbers (50 percent) for women, as a goal,” Kolegraff said. “I think the industry really is at a turning point and recognizes the value women can bring to a project team. Women are getting hired because they’re talented. They also bring a diverse perspective and background to the industry. Construction management is 10 percent building and 90 percent planning and logistics. It takes multitasking and women are uniquely qualified for that.”

Multitasking and paying attention to details are qualities often cited for women’s success in the profession. Alumna Katie Worden (CM ‘13), an estimator at Sundt Construction in the Bay Area, was drawn to the industry by her fascination of watching things go together. “Men and women are equal, but, in general, have different skill sets,” she said. “Women can be very detail oriented and look at all the steps needed to get to the end of a project; whereas, men might be good at looking at the big picture and the end goal. It’s a great career for women, but I can’t say it’s for everyone. In some regards, you need to be thick-skinned. But attention to detail is generally where women in this field excel.”

Emily Pool (CM ’12) is an engineer performing project controls at a multi-billion-dollar U.S. construction company. She’s lately seen more women moving into higher, more visible positions. “There are more advocates helping women grow and rise in the industry,” Pool said. “Owners and clients have begun to recognize the benefits of diverse teams. It’s a great field for women. Construction needs diversity to be successful, and diversity is starting to be a focus of companies. Construction is a vast field with multiple opportunities and a need for talent that women bring.”

Kaitlin Murchison (Construction Management,’07), vice president of construction and development for Heller Pacific Inc., a commercial real estate developer in Sacramento, thinks the climate is improving for women in construction. “It felt a little more like a ‘good old boys’ club when I started out more than 10 years ago, but I can’t say I’ve been treated negatively,” she said. “If anything, I feel I’ve been supported and encouraged more by those around me. There’s more discussion about why leadership in business is largely male and recognition that women’s experiences and approaches in business are different than men’s. The conversation and support systems are expanding.”

Murchison said Cal Poly prepared her well for the rigors of the industry. “Everything about the experience equipped me to succeed: the supportive faculty, the practical, hands-on approach to our education, the involvement in industry events and depth of outreach to companies, the emphasis on obtaining experience through internships, and the caliber of fellow students. Cal Poly prepared me perfectly for my career path, and I’ve witnessed the same in fellow CM alumnae across the board.”

Al Hauck states, “the Construction Management Department’s practices and attitude has an impact. It starts with creating an inclusive environment, but this is not a one-time effort. It is something we have to work on continually. And we are making progress with women who now make up 18 percent of the total construction management student population. As the numbers of women increase — we anticipate that 30 percent may be the tipping point — women students in our department will no longer feel like they are the exception; it will be just who we are.”
The National Association of Women in Construction (NAWIC) began in Fort Worth, Texas in 1953 when 16 women working in the industry started Women in Construction. The founders, knowing women represented a small fraction of the construction industry, established the group to create a support network. It was so successful that it gained its national charter in 1955 and became the National Association of Women in Construction.


Women working in construction represented 1.3 percent of the entire U.S. workforce in 2015.

Women in the U.S. earn on average 81.1 percent of what men make. The gender pay gap is much narrower in the construction industry, where women, on average, earn 95.7 percent of what men make.

(Source: www.bls.gov/opub/reports/womens-databook/2016/pdf/home.pdf)
Students and faculty in the City and Regional Planning Department are investigating the future of workforce housing in California. CRP 442: Housing and Planning explicitly addresses expanding such housing stock (and urban planning studios CRP 341 and CRP 553 suggest remedies through mixed-use developments), which has been denuded by the impacts of gentrification. The problem, in short, is that market-rate housing in many areas burdens workforce families and displaces them into less expensive areas. As a result, the longer commute times adversely impact workers, their families and surrounding communities.

The effects of gentrification and its potential for displacement on the health and economic wellbeing of communities has also been examined by academic researchers at the Center of Community Innovation at UC Berkeley and the National Housing Conference. What emerges is a clear need to build workforce housing closer to jobs through private sector initiatives.
4. PARKING REDUCTION (80 PERCENT)

Projects strategically located near sites of employment and services encourage use of alternative modes of travel and are allowed lower parking requirements.

5. DENSITY BONUS, HEIGHT INCREASES, SETBACKS CONCESSIONS (80 PERCENT TO 90 PERCENT)

All 10 projects have benefited from one or more regulatory concessions, including increases in maximum allowable built-up area, reduced setback requirements, density bonuses and increases in allowable height.

6. CROSS SUBSIDY FROM UNITS SOLD AT MARKET RATE (70 PERCENT)

Profits from sale of units at market rate, as well as from commercial and retail/service space sold or leased at market rate, have cross-subsidized the price of units for workforce households.

This study reveals that the innovations represented are not particularly new, but are creatively assembled, implemented and timed. The collaborating developers identified barriers, formulated strategies and collaboratively navigated them. These projects offer some good news in the bleak landscape of housing inaccessibility — that local governments and housing developers can find their own winning strategies to build housing for workforce households in California. More information is available in the project report Designing Affordability.

In the coming decades, the creation of workforce housing will continue to be a priority for California. I look forward to seeing how today’s students become the future innovators who improve the quality of life for families and enhance the cohesion of our communities.

Moylan Terrace, 851 Humbert Court, San Luis Obispo, CA
Developer: Housing Authority of San Luis Obispo (HASLO)
Developing diversity and inclusion is about engaging the wider world around us, from being exposed to different perspectives through cross-disciplinary courses and supporting underserved communities through service-learning projects to broadening the discourse within the college by inviting alumni and practitioners who represent this wider voice.

Yasmine Suleiman (Architecture ’18), chair of the College of Architecture and Environmental Design’s (CAED) inaugural Student Diversity and Inclusion Committee (D + I) in the 2017–18 academic year, is a passionate advocate for lasting curricular change who reminds us that,

“Academic agency is our greatest tool, establishing space for diversity within our discourse.”

For Yasmine, launching the CAED Student D + I Committee was a lesson in leadership. She focused on cultivating leadership within and creating a strategic action list, a guiding manifesto not simply for the student committee, but for the college as a whole. This includes study of the socio-cultural dimensions of the built environment through cross-disciplinary course offerings, such as CRP 215 Planning for and with Multiple Publics. City and regional planning faculty Kelly Main, who teaches the course along with other CRP faculty, explains, “In terms of planning and city design, diverse groups have diverse needs.” Over time, this course has evolved from a focus on planning to include a broader perspective on the impact of cities that is relevant to any student in any major at Cal Poly.

Recently, Kelly developed a course called Intergroup Dialogues (CRP 304), in conjunction with psychology faculty Jennifer Teramoto Pedrotti, who is the associate dean for diversity and curriculum in the College of Liberal Arts. In CRP 304, students learn to facilitate dialogues around challenging points of view — from issues of race, identity, equality and social justice.

Service-learning projects expose students to the needs of communities outside of the university and engage them with diverse perspectives. Numerous architecture (ARCH) and architectural engineering (ARCE) students have been involved with Journeyman International, a nonprofit organization founded by CAED alumni, on projects serving communities in developing countries. In the CRP program where community service studios are a hallmark of the curriculum, faculty and students have developed general and specific area plans for many underserved minority communities in California.

Last year, an interdisciplinary studio, involving students and faculty from ARCH, construction management and ARCE, helped develop prototypes for replacement housing in the community of Weed on sites impacted by the tragic 2014 Boles fire. David Watts, a faculty member in the Landscape Architecture department, has led multiple trips to South Africa to build community playgrounds. This past summer, a team of ARCH and ARCE graduate students traveled to Tanzania, Africa where they designed and constructed a prototype structure using local materials and labor. They tested construction methods for a new Polytechnic College, an ongoing project developed in partnership with the Arup Cause and the Mbesese Initiative for Sustainable Design.

This year, student leadership continues. Ami Mehta, third-year architecture student and executive chair of the Student D + I Committee in the CAED Student Council is working to improve diversity in the college. Ami was attracted to Cal Poly because of the friendly community and Learn by Doing philosophy, but she knows more can be done. She strives to help CAED provide minority students with adequate representation, resources, and respect. With seed funding from the CAED, the Student D + I Committee will host a public lecture series on diversity and the built environment. The student committee will also have access to faculty and staff mentors and collaborators who are part of a new Faculty-Staff Diversity and Inclusion Committee. After all, engaging diversity through student and faculty leadership is reflected in the mission of the college, which develops leaders and stewards of the communities it creates.
Every day, part-time student employees advance the mission of the College of Architecture and Environmental Design (CAED). They provide faculty with instructional support and research assistance. They provide essential services for campus facilities such as the college’s shops, labs, plot center and Neel Resource Center. In the college’s offices, they are often the first people to greet students and visitors. Student staff also bring valuable perspectives that help the college better serve all students.

These “earn by doing” jobs help students offset the cost of their Cal Poly education while giving them valuable experience that furthers their professional development. They are also empowering students to apply their diverse talents to improve their school.

“When students gain hands-on experience in school, they are ready to hit the ground running in the workforce,” says Rick Gunter, associate principal and senior vice president of global architecture and design firm HKS. Rick realizes that managing the competing demands of an off-campus, part-time job with full-time study can be challenging for students. For this reason, Rick and HKS were inspired to support “earn by doing” on-campus positions in the CAED Support Shops.

CAED faculty and staff who mentor student employees help them develop individualized work schedules that are compatible with academic priorities. In the process, students learn how to better manage their time and build confidence, skills that help them achieve their goals. Every “earn by doing” experience is unique, for example:

Priya Baht, fifth-year architecture student, works as a curation assistant in the Neel Resource Center (NRC). She helps ensure students have access to current and relevant reference materials for their assignments and projects. She also coordinates lunch and learn opportunities for industry professionals.
representatives to share trends in the built environment with students on campus. She enjoys connecting students with resources and providing a forum for everyone to learn from each other. Priya says that, “sharing about diverse projects and meaningful experiences helps us become better students and eventually better practitioners.”

Fourth-year architectural engineering student Austin Zhu is in his second year working in the CAED Support Shop. He enjoys working with students from different majors and learning about their creative design ideas. “The shop is not just exclusive to CAED. Last year, we had a lot of industrial technology majors use the shop for their senior projects, and someone in agriculture just discovered it. Sometimes it gets really busy, but people are respectful and support each other. If there are questions, we are there to help. Working together also makes us more aware of different ways to approach projects." Austin finds this experience valuable for his professional career.

Patrick Kelty, graduate of the Landscape Architecture program in 2018, gained valuable experience and advanced the mission of the college throughout his entire time at Cal Poly. He was an integral part of Support Shop Manager Dave Kempken’s team and worked his way up to become a lead shop tech, served as an instructional student assistant for the Introduction to Architecture and Environmental Design (EDES 123) class and completed his internship with CAED.

One of his most memorable experiences was teaching first-time students in the first class at Cal Poly. Patrick remembers, “everyone in the class was looking up to me and after a moment of terror, I had to reposition my mind to learn to teach, by teaching.”

As part of his Landscape Architecture internship, Patrick developed the construction drawings for the Legacies Courtyard area behind the Architecture Building. His work was used to secure contractor bids for construction. He also designed and installed a sign at the Poly Canyon entrance, which describes the purpose and history of the space.

Patrick currently works in Phoenix, Arizona, where he practices planning and landscape design. His experience in the shop still pays dividends today. He said, “the shop is like a toy room and an area to play. Being a shop tech has helped me understand how things go together and better understand and visualize construction details. After graduation, you won’t have access to a place like this again, a place to play and explore — is completely invaluable.”

ONE GIFT ACHIEVES MANY GOALS!

“Earn by doing” positions give students funds to pay for their Cal Poly education, provide professional development opportunities, and advance the mission of the college. CAED aims to provide 100 “earn by doing” on-campus student job opportunities. Your generous support can make this a reality.

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For the past three years, students and faculty from Cal Poly have worked in partnership with a nonprofit, the Mbese Initiative for Sustainable Design (MISD), industry partners Arup (a global multi-disciplinary design firm) and KFA (an architecture firm based in Los Angeles) to develop the master plan and building designs for a technical college in Same (Sah-may), Tanzania. Cal Poly students are the “think tank” and create the design proposals, while the design professionals from Arup and KFA serve as mentors and critics of their work. This partnership has helped the students develop holistic proposals which address all facets of design.

The students’ designs incorporate best practices that address material availability, current technologies, energy resources, water, cultural practices, economics and the local environment. Their designs typically incorporate locally made blocks, natural ventilation, solar control, water collection and local artistry. A primary goal is to use indigenous materials and technologies in ways which improve the building experience, are cost effective, and reduce the need for maintenance.

Students from the CAED and the College of Engineering have worked collaboratively to develop integrated building designs. Last year, students from the Mechanical Engineering (ME) department evaluated building designs which were created by CAED students for thermal comfort and natural ventilation. The ME students used building configurations developed in architecture studio and block material properties based on wall testing research being conducted in the Architectural Engineering Department. This resulted in a comprehensive design that formed the basis for a test structure that was built in Tanzania during summer 2018.

In August 2018, 11 students, four alumni volunteers and faculty members Tom Fowler (architecture) and Kevin Dong (architectural engineering) traveled to Tanzania for a hands-on building experience: building with local materials, building with local residents and working with government officials. During a three-week period, the group constructed an experimental structure based on the design described previously. The group learned how to mix concrete on the ground, compare construction techniques, frame with warped wood and purchase materials from the local hardware store.

The project is ongoing and provides an ideal platform for student and industry partnerships and a means for showing how the built environment is viewed in developing countries. Arup and KFA practitioners are able to show students design strategies which work in similar environments to Tanzania. And the project helps students better understand the commonalities and differences present when working in less industrialized regions, designing for different cultures and working with colleagues from afar.

The impact of traveling to Tanzania is best described by Scout Taylor (ARCH ’21) and Ezra Zuidema (ARCH ’21). Scout recounts that, “I traveled to Tanzania with vague expectations to learn about culture and construction. However, I left Tanzania with much more: a tremendous appreciation for people I never knew, lifestyles I didn’t know existed, labor I hadn’t realized was necessary and a country which has impacted my career and life path.” While Ezra adds, “…traveling and working throughout Tanzania gave me so many opportunities to learn about different aspects of culture and construction. The lessons I learned from this trip could not have been experienced at my desk in school.”
STUDENT NEWS

RTC + CAL POLY DESIGN EXPLORATIONS

For the past three years, CAED students have worked with researchers and directors at the Romberg Tiburon Campus (RTC). The RTC is the marine research center for San Francisco State University. Students interviewed project investigators and administrators to learn about sea level rise, marine life, current ocean-based experiments and plans for growing the RTC. The groups develop designs and cost estimates for proposed work; one project, the Headhouse proposal, is in the fundraising stage. Last year, the group included a history major, Rebecca Willis (HIST ’17), who won the Dan Krieger History award for her RTC research.

CAED student team presents design proposal to RTC staff and researchers for lab renovation and classroom expansion project.

RIBA PRESIDENT’S SILVER MEDAL AWARD

Kevin Herhusky (ARCH ’18) was awarded one of three Commendations in the 2018 RIBA President’s Silver Medal category for his design project “Infrastructures of Memory, Phygital Bodies in a Concrete Cloud.” The Royal Institute of British Architects (RIBA) Silver Medal is awarded in recognition of the best student design projects produced at universities worldwide. Kevin’s project, nominated by fifth year Architecture faculty for the award, was one of the best out of a record 159 entries that were received in the Silver Medal category.

Kevin was a student in architecture faculty Karen Lange’s studio. She remarks that “his quiet diligence, uncommon imagination, single-minded pursuit of knowledge, and exceptional architectural skills made him successful. Always positive and inquisitive in studio, Kevin has been recognized within the Architecture Department with a Thesis Award for his project, nationally for his third-year project by the ACSA/AISC Steel Design Competition with first place in the open category, and now internationally with the RIBA President’s Medal. How much prouder can we be?”

Miguel Mendez (ARCH ’19) was named winner in the Affordable Housing category of the ACSA’s 2017–2018 Designing Healthy Places competition for his project titled “The Village in the City: LA Millennial Housing.”

Design Village 2018 in Poly Canyon was another successful showcase of student designs from Cal Poly and schools around California. Visit www.architecture.calpoly.edu to view the videos.

Liam Hanlon (ARCH ’20) received the 2017 Student Leader Award from the AIA Academy of Emerging Professionals (AEP).

Maya Nunes (ARCH ’19) received the Design Excellence Award from DIS Copenhagen for her project, House of Foods.

Torina Wilson (CRP ’18) was honored with the 2018 Ken Swartz Excellence in Leadership award.

Alex Siegel (ARCH ’20) received the Student Award from the Academy of Emerging Professionals — AIA California Council. The jury was impressed with “the breadth of his volunteer work and how it clearly stretched beyond AIA but to students, community and the chapter.”

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Sydney Gallion (M.S. ARCE ’19) was awarded a $5,000 scholarship from the Structural Engineers Association of Northern California.

A third-year architecture design studio taught by Stacy White partnered with the city of Fresno to develop projects for the downtown area that could be implemented in association with the construction of the High-Speed Rail station in progress. The studio then traveled to Da Nang, Vietnam with a team of CAED faculty where they worked with students and faculty at Duy Tan University to test their design ideas and share Learn by Doing.

The City and Regional Planning Senior Studio taught by faculty members Kelly Main and Laura Tate produced two reports for the city of Santa Maria, California. One of these, Authentic Santa Maria, focused on how the city could promote a greater sense of place in tandem with increased efforts to foster social inclusion.

Architecture and Landscape Architecture students worked in collaboration with Ethnic Studies and Art +Design to present an exhibit at Kennedy Library entitled, "Don’t Believe the Hype: The Radical Elements of Hip-Hop." Led by ethnic studies faculty member Dr. Jenell Navarro and student curators, the exhibit aimed to provide an authentic narrative and academic exploration of Hip-Hop’s contribution to culture.

After a 7.1 magnitude earthquake struck Mexico City in September 2017, two architectural engineering students, Lauren Benstead and Rachel Chandler, advised by faculty Anahid Behruzi, traveled to Mexico to conduct response investigations, gather data and assess the impact on reinforced concrete structures to help inform future codes and structural designs.

City and Regional Planning student project, “The Newark Old Town Urban Design Concept Plan,” won the APA California Chapter 2018 Academic Award of Excellence. Based on the concepts in the design, the city of Newark, California, proceeded with contract scoping in early 2018.

Kelly Williams (CM ’18) gave a presentation to ELECTRI International on behalf of Cal Poly’s student chapter of National Electrical Contractors Association (NECA) in response to ELECTRI’s Student Community Service Initiative. The student club was awarded $20,000, which will allow club members to perform student service learning projects in Shell, Ecuador, and the Ecuadorian Amazon Rainforest.

CAED Students presented proposals for a Museum of Science Fiction during Memorial Day Weekend at the Escape Velocity Expo in Washington D.C.

INhouse: Solar Cal Poly, an interdisciplinary Solar Decathlon project, won the 2017 Green Homes Merit Award from the Central Coast Green Building Council.
Michael Lenahan (LA ’19) and Torina Wilson (CRP ’18) were part of an award-winning team in the 2017 Walt Disney Imagineering’s Imaginations Design Competition. The competition is a showcase for students and allows Disney to identify new talent. Their entry featured the use of augmented reality glasses.

Construction management students partnered with nonprofit Hope’s Village to donate two “tiny house” structures to the homeless. Students built the waterproof structural shells, approximately 77 square feet each, and other volunteers completed the interiors. Students proudly pose with their structure at the end of the first week of construction.

The Women in Construction club traveled to Camarillo to help with construction of three family units with the local Habitat for Humanity.

Construction management students took home top honors at the ASC Region 3 competition in Downer’s Grove, Illinois, as well as the ASC Region 6 competition in Reno, Nevada, for a total of five first-place trophies, two second-place trophies and three third-place trophies. The first-place project management team is shown below.

Kelly Williams (CM ’18) and Carlye Cunningham (CM ’18) placed second out of 11 international university teams in the ASC Region 8 International Construction competition in Liverpool, England. This competition was unique in connecting students from around the world and challenging them to adapt to the differences between European and American construction.

An interdisciplinary team of architecture, city and regional planning, and construction management students led by construction management faculty, earned second place out of 33 university teams at the 2018 National Association of Home Builders’ (NAHB) Residential Construction Management Competition held in January 2018 in Orlando, Florida.
LA/CAPSTONE PROJECTS

The Landscape Architecture Department’s senior showcase was presented at the Cohen Center for the Performing Arts. Seniors advanced the profession in new directions, addressing a multitude of critical design issues related to social equality, ecological responsibility, finance and public policy, health and fitness, inclusivity and safety. Twenty-eight projects were showcased and celebrated by family and friends, faculty, peers, the Landscape Architecture Department Advisory Council (LADAC), alumni and practitioners.

- **Johanna Mall** undertook the issue of women’s safety using public transit. The final objective is to improve women’s safety and create new connectivity to neighborhoods.

- **Shannon O’Hehir** utilized her research to create an indoor/outdoor arts district devoted to female artists. The plan utilizes the landscape to communicate and educate the public about women’s contributions to art.

- **Helen Florez** tackled the issue of workforce housing in the Central Coast by creating a new neighborhood in Nipomo that successfully created inter-generational housing, recreation and ecological opportunities while making connections to the urban core.

- **Joe Dresser** demonstrated how social justice in the landscape can be exemplified when a golf course is transformed into a recreational asset as an open space that is connected to the nearby river habitat.

- **Kimmai Nguyen’s** project proposed alternative housing in New York’s Central Park for 100,000 Harlem residents who might someday be displaced by sea level rise.
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The College of Architecture and Environmental Design thanks all of our alumni, parents and friends for their support. This honor roll recognizes gifts of $1,000 or greater received during the 2017–18 fiscal year (July 1, 2017–June 30, 2018).

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POLY GIVES SOARS!  
Online and through social media, amazing CAED alumni, parents and friends gave back to Cal Poly by raising more than $12,000 in student support! Join us March 7 for Poly Gives 2019!  

5TH YEAR SENDOFF  
Each year, student committees in architecture and landscape architecture organize their enormous fifth year thesis shows. The graduating classes thank supporters for raising nearly $7,000 through crowdfunding efforts!  

BEQUEST BENEFITS CAED STUDENTS  
Elizabeth and Walter Stier left a bequest to the CAED Fund for Excellence of more than $77,000. Alumni may remember “Walt,” the Cal Poly mechanical engineering ’53 grad, as the CAED Support Shop manager, assisting with student projects for several years.  

SUPPORT THE COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN  
Give online at www.giving.calpoly.edu  
Get involved and make a difference!
With major support from two industry partners, Cal Poly’s College of Architecture and Environmental Design (CAED) and the College of Engineering have created an interdisciplinary minor that combines construction management and civil engineering, giving graduates unique hands-on experience in the heavy-civil sector of the construction industry.

Granite, one of the nation’s leading infrastructure contractors, donated $3 million to establish the Granite Heavy Civil Engineering and Construction Program, designed to bridge the two departments in an effort to attract more graduates to this expanding field, according to Construction Management Department Head Al Hauck.

The Beavers Charitable Foundation added an additional $1 million to fully endow the Granite Beavers Heavy Civil Engineering and Construction Chair, who will develop and teach in the program.

The program will allow construction management students to learn about heavy civil engineering fundamentals; students in civil engineering will have access to more construction management classes. Students in both disciplines will also complete a series of advanced classes designed specifically for the new minor and will be required to complete at least two internships in the heavy civil field.

“There was a significant need for a program like this, which will attract more civil engineering graduates to construction rather than to design and will introduce more construction management graduates to heavy civil projects rather than to building construction,” Hauck said. “This partnership between the CAED and the College of Engineering along with these important industry supporters represents a unique demonstration of how public-private partnerships can create exciting new Learn by Doing opportunities for Cal Poly students.”

The Granite Beavers Heavy Civil Engineering and Construction Endowed Chair position will be filled by the start of the 2019–20 academic year. It will add a faculty member with academic expertise and practical experience in heavy civil construction and engineering.

Granite has always sought to impact the world and the people in it, and one way it accomplishes that is by supporting student success. “The idea behind the funds was based on some core principles,” explained Philip DeCocco, Granite’s senior vice president of human resources. “As an industry leader, we believe it is important to lead by example both on and off the job. In addition, Granite takes great pride in who we partner with, and we are proud to be associated with a well-respected program like Cal Poly’s. Last but not least, we want to ensure that students who mirror the many communities we serve across the country have an opportunity to succeed in our industry.”

The Beavers Charitable Foundation is the scholarship program of The Beavers Inc., an association of contractors, engineers and suppliers. It recognizes successful men and women in the field and supports the entry of promising young individuals into heavy engineering construction. It has been a major supporter of scholarships and student competitions at over 60 U.S. universities, including Cal Poly, and was a natural partner for Granite Construction in this latest effort.

“The trust was formed in 1977 because the leaders of the association foresaw a need for young people to choose careers in heavy construction,” explained Ron Fedrick, chair of the trust. “With the increasing volume of work and the Baby-Boomer generation retiring, that need is even more critical than it was 40 years ago.”

Dean Christine Theodoropoulos adds, “the new Granite Heavy Civil Engineering and Construction Program furthers interdisciplinary education in the CAED and prepares students for careers where collaboration across management and design is key.”

“We are grateful to Granite and the Beavers Charitable Foundation for their inspiring leadership and support.”
If you’ve hiked to Poly Canyon, you’ve seen the geodesic dome, an iconic landmark constructed by a group of five architectural engineering (ARCE) students in 1957. Inspired by the designs of renowned architect Buckminster Fuller and his speech at Cal Poly in 1956, the group built his patented “geodesic dome.” One of those students was Donald B. Tanklage. After graduating from Cal Poly with a bachelors degree in Architectural Engineering, Don served in the Army and then took a position with the U.S. Army Corps of Engineers where he worked on The Bay Project. He met his wife Carole and built their first home in Redwood City, followed by a cabin in the high Sierras where he became the water master, establishing water rights and the allocation program for a mountain community. With dreams of working for himself, Don and Carole founded Tanklage Construction Co. Many times throughout his career, people would advise him that some things could not possibly be done. He overcame each challenge and ensured this pioneering spirit would continue by establishing the Donald B. Tanklage and Carole F. Tanklage Foundation, which supports numerous charitable and educational projects and organizations in Central and Northern California.

Through the couple’s generosity, the Don Tanklage Scholarship was created to help Cal Poly students pursue degrees in architecture and construction management. This year, the foundation established the Tanklage Family Initiative to End Homelessness Cal Poly Fund with a pledge of $150,000 to assist students struggling with homelessness and housing stability. Cal Poly will be able to help struggling students obtain housing and keep them focused on their academics. The new fund will provide emergency grants for eligible students unable to afford expenses — including housing — that are central to their academic success and wellbeing.

The "Bucky" dome was once the largest dome west of the Mississippi at 50 feet in diameter and 25 feet tall. Along with his teammates — Richard Neill, William Roth, Donald Mills and Samuel Peterson — Don constructed the dome with more than 19,000 nuts, bolts and washers and more than 1 mile of 1-inch diameter war surplus boiler pipe.

The dome represents Don’s larger than life personality and dedication to helping students succeed against all odds.
Kelly Givens’ career path encompasses majors from two distinctly different, yet intertwined colleges — College of Architecture and Environmental Design (CAED) and Orfalea College of Business (OCOB). In his current role as vice chairman at Savills Studley, he uses his design, construction and finance background to match real estate solutions with performance objectives for his clients. Kelly graduated in 1980 with both a bachelor’s degree in architecture and construction engineering, which is now construction management.

His interest in a broader architecture education started with the works of architect and developer John Portman. Portman was completing the development of the Bonaventure Hotel in downtown Los Angeles (1976), and the project exposed Kelly to architectural work which did not focus on traditional design. Coincidentally, in his fifth year of the architecture program, Professor Willard McGonagle, who had development experience, directed his thesis studio which focused on design and development. It was during studio that Kelly discovered a new interest in architectural design, one which allowed him to combine analytical and design thinking. He believes that the 1980 class was the first real estate development-focused lab in the CAED program; it proved to be an influential experience on his professional career.

After graduating, Kelly accepted a designer position at the Orange County, California firm of RNM where he obtained his professional license. He sought a comprehensive understanding of the other components controlling the built environment and secured a job with a local developer and contractor focusing on office and industrial projects in Southern California. The firm housed development, construction and asset management, all under one roof. This enabled him to learn the development business from top to bottom. He held positions as development manager, construction engineer, analyst, construction manager, leasing agent and tenant improvement coordinator. The experience was the beginning of his transition to the development and real estate sector.

In 1986, he created his own development company. Throughout this period, he focused on investment yields and returns, but was equally focused on how the real estate was performing for the occupiers of that space. In reflection, Kelly credits the Human Factors class taught by Dr. Harrigan at Cal Poly in the late 1970s for helping inform his decisions when matching clients with workspace performance. Class assignments required students to observe how people act and react in space, then assess how the built environment affected behavior. Kelly thinks the class was brilliant and made him aware of the relationship between human behavior and the “occupier experience.”
His desire to advise a diverse client base about efficient building development and delivery processes led him to pursue a career as a tenant-only focused broker for Julian J. Studley Inc. In this role, he assists clients in creating effective and flexible workplace solutions that consider the built environment as a talent retention and attraction tool. His experience as an architect, developer, asset manager, contractor and investor give him a unique perspective of the components driving real estate, occupier performance and environmental factors.

Additionally, Kelly served on the search committee for the real estate director position, a joint appointment between CAED and OCOB. He envisions the future director helping both colleges set curriculum standards that meet the ever-changing design, construction and development industries. Additionally, the director will play a key role in connecting students and graduates to viable job opportunities in the industry. He states that “Cal Poly CAED students are the most sought after graduates in the country, and the real estate program graduates will be no different.”

And when commenting on his own academic career:

“What is most satisfying for me is that my unique job experiences are a result of my Cal Poly education. My architecture education has enabled me to advise clients in a more comprehensive way, allowing me to create the best solution that matches client needs with the occupant experience.”

“I continue to be passionate about the integration of the design process and the built environment, which is why I am proud to have initiated a fund within CAED to assist students interested in exploring real estate development as an academic pursuit and a career path.”

In April 2018, the City and Regional Planning Department (CRP) celebrated its 50th anniversary. The program officially started offering the bachelor’s degree in 1968 and added its master’s degree in 1972. The first graduating class had 20 students, and CRP now boasts over 1,600 alumni, most of whom are practicing land use planning in the public and private sectors in California and across the country. As part of a two-day alumni celebration on campus, the department’s advisory council, CiRPAC, hosted a series of events including mentorships, campus tours, celebration gatherings and a symposium on the Future of Planning: Understanding and Navigating Technological Disruptions. The panel was a collection of industry-leading experts on social media, virtual reality and augmented reality (Josh Grossnickle, Facebook); retail, innovation and entrepreneurship (Jesse Dundon, Hathway); and mobility (Peter Day, Lyft) who shared their visions of the future. The facilitated discussion explored how the evolution of these industries will shape and inform the profession, planning education and our communities.

Festivities included recognizing emeritus faculty Zeljka Howard and Paul Wack for their contributions to the department, past and present. Thank you to the many attendees who contributed to a scholarship fund in Paul Wack’s honor.
EDUCATIONAL DESIGN IS EVOLVING AND A TREND TO MORE FLEXIBLE LEARNING SPACES IS EVIDENT. THE LEARNING ENVIRONMENT IS MOVING BEYOND THE CLASSROOM WALLS AND EMPHASIS HAS BEEN PUT ON THE QUALITY OF AND ACCESS TO OUTDOOR SPACES, TO CREATE BALANCE BETWEEN THE INDOORS AND OUT.

“STUDIES SHOW THAT CLASSROOMS WITH VIEWS TO NATURAL ELEMENTS SUCH AS TREES AND SHRUBS GREATLY INCREASE THE OCCUPANTS’ COGNITIVE ABILITY.”

“One study measured that a person who spends 15 minutes walking through a park-like setting increased memory and attention performance by 20 percent. In addition, access to nature can lower stress levels, improve a student’s ability to focus and improve mood.”

MAGLIN SITE FURNITURE HAS WORKED WITH MANY POST-SECONDARY INSTITUTIONS TO DEVELOP INDOOR AND OUTDOOR SPACES. JILL ROBERTS, MAGLIN’S SALES MANAGER, STATED: “STUDENTS ARE OUR FUTURE CUSTOMERS. IT’S ALWAYS EXCITING TO SEE HOW CAMPUSES ARE EVOLVING OVER TIME AND MAGLIN’S GOAL IS TO EVOLVE OUR PRODUCTS TO FIT THESE SITES. WE WANT TO PROVIDE AMENITIES THAT MAKE CAMPUSES INVITING AND ENCOURAGE STUDENTS TO ENJOY CAMPUS LIFE...OUTSIDE!” IN ADDITION, MAGLIN ALSO SEES VALUE IN BUILDING RELATIONSHIPS OUTSIDE OF THIS REALM.

IN 2015, WHILE VISITING CHICAGO FOR THE ANNUAL AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS (ASLA) TRADE SHOW, IAN MCSKILE (PRESIDENT AND CEO OF MAGLIN SITE FURNITURE) MET OMAR FARUQUE, THE CHAIR OF CAL POLY’S LANDSCAPE ARCHITECTURE DEPARTMENT. WITH A COMMON INTEREST IN THE NATURAL AND BUILT ENVIRONMENTS, THE TWO SAW OPPORTUNITY FOR MAGLIN AND CAL POLY TO COLLABORATE IN A WAY THAT WOULD BENEFIT THE SCHOOL AND THE LEARNING EXPERIENCE — A DESIGN CONTEST CHALLENGE.

MCSKILE SAID, “MAGLIN IS ALWAYS LOOKING FOR UNIQUE OPPORTUNITIES.”

CAL POLY’S DEXTER PATIO SITS BETWEEN THE WALTER F. DEXTER BUILDING AND THE DEXTER LAWN, A MAJOR STUDENT HUB ON CAMPUS.

In need of an update, McAskile and Faruque saw the patio as an opportunity to create a hands-on project for students. By providing project specs and design constraints, Maglin Site Furniture would challenge Cal Poly students to design a new exterior floorplan for the Dexter Patio. McAskile described the contest as “an opportunity to give students entering the landscape architecture profession a different slant on projects by working with specific requirements as they would in the industry.”

The challenge was accepted! Maglin Site Furniture would donate $25,000 in product to a redesigned Dexter Patio, using Maglin’s flexible Lexicon series. Cash prizes would be awarded for the top three submissions and the floorplan designs would be displayed in Maglin’s tradeshow booth at ASLA 2017 in Los Angeles.

By utilizing Maglin’s online product resources and reaching out to Maglin sales and design representatives, students created floorplans that reflected budget constraints and use of multiple Lexicon components, as well as recognition of pre-existing patio features. After careful consideration, the judging committee selected the top three winners: third place, Sofie Assi and Christina Du Mont; second place, Isaiah Rapko; and first place, Piper Tulley.

Tulley’s design was selected for its “careful consideration of pedestrian traffic, successful intermingling of new furniture with existing pieces and the use of rectangular and circular forms.” As a second-year landscape architecture student, Piper Tulley is excited about her work right now. After seeing the final installation of the Lexicon components in the Dexter Patio, Tulley said, “Today I got to see my design, actually installed! It was so absolutely incredible, I can’t put it into words!”

Maglin Site Furniture is always looking for new and unique opportunities to enrich educational experiences. Create a collaborative approach to active learning by transforming your exterior campus with Maglin’s Standard product offerings, or create a design distinctive to your site.

Citations: Printed from original article on Maglin’s eNews site: http://maglin.com/eNews/January2018.html

1Educational design taking lessons from tech firms
JAMES MWANGI: CHANGING BUILDINGS WITH BUILD CHANGE

Architectural engineering faculty James Mwangi was awarded the first ever Simpson Strong-Tie (SST) Engineering Excellence Fellowship. The donation by Simpson Strong-Tie enabled James to work as an SST Fellow with Build Change (BC), a social enterprise organization based in Denver which provides global engineering services to emerging nations. The nonprofit currently operates programs in Colombia, Haiti, Indonesia, Nepal and the Philippines in an effort to change construction practices and build disaster-resistant buildings in those regions. James worked directly with local and international engineering teams, shared his expertise, and mentored staff about earthquake and hurricane resilient engineering design and construction. He acknowledges that the combination of working collaboratively, “using the knowledge he gained while working in Haiti, the possibility to change lives globally, and developing strategies for safer schools and homes” attracted him and made this an exciting journey.

His first visit was Indonesia where he assessed current practices and recommended safety improvements for public school buildings. He reviewed public school designs and documents for construction, which are currently prepared and enforced by three separate government agencies. After translating and reviewing the documents, he worked with local Indonesian engineers, since James notes, “Google translate can only take you so far.” Together they prepared a report for the Government of Indonesia (GOI). The group’s report combines and harmonizes all documents into a single reference for design and construction, and is linked to the national building code for Indonesia. The document has been adopted by the GOI.

James conducted numerous Learn by Doing demonstrations which provided a basis for new construction techniques and improved building performance. An excellent example occurred during his stay in Indonesia. He worked with the BC Better Brick Project team and proposed changes to the brick-making process to improve strength and durability. It’s common practice for local builders to use poor quality clay for manufacturing bricks, then burn the bricks in kilns fueled by forest wood. James proposed builders burn the brick using coconut husks to increase the oven temperature, provide a more uniform heat source, and to reduce the impact of deforestation. The husks produce a higher burn temperature, resulting in a stronger and more durable brick. This, in turn, led to fewer cracked units and in theory, reduced maintenance costs and longer building life.

In Colombia and the Philippines, James performed pre-disaster evaluations (both areas have not experienced a major seismic event) and worked on retrofit projects, primarily residential housing units. He used the BC Retrofit Manual that outlines a procedure for building evaluation and recommended retrofit strategies for unreinforced masonry buildings. Unfortunately, the guidelines are not well suited for residential studies. This was critical, since unreinforced masonry residential houses are a building typology not addressed in the local building codes. So, James proposed two key modifications to the evaluation and construction process — both consistent with the BC goal to reduce construction costs, a major concern in emerging countries, and educate homeowners and builders.

The first involved modifying the evaluation process to acknowledge and develop criteria for assessing the building type used in rural areas: confined masonry. There are numerous documents for residents, architects, and builders to reference, and it’s a building system James became familiar with during his work following the 2010 Haiti earthquake. The second innovation was the development of the “Retrofit Card.” The card provided a simplified method for owners and architects to evaluate unreinforced single-story structures, then based on the “self-evaluation” the owner determines what modifications should be made to their home so that it will be earthquake resistant. The modifications are listed as incremental steps or check boxes, so that the homeowner can seismically upgrade their home one step at a time and as their budget allows.

James led a variety of Build Change initiatives, amazingly not all have been listed, from research and design to construction, evaluation and policy making with the goal of defining disaster-resistant buildings. His travels are described in more detail on blogs for Build Change (www.buildchange.org) and Simpson Strong-Tie (www.strongtie.com). When reflecting on his experience, James notes it allowed him to “have fun while being indulged in diverse cultures and impacting society positively.”
Final play of the CAED Dean’s Cup Golf Tournament was held Sept. 15 in Monterey. Scott Gaudineer (ARCH ’79) was this year’s cup winner. The college thanks alumni and friends across the state who helped raise more than $17,000 to support CAED initiatives. Look for a similar golf tour next spring.

ALUMNI NEWS

More than 70 CAED alumni, friends and members of the Dean’s Leadership Council (DLC) gathered at the Kimpton Sawyer Hotel in Sacramento to discuss the future of community resilience. Moderator Phil Serna, Sacramento County District 1 supervisor (MCRP ’94), set the stage by sharing the social side of resiliency, citing Sacramento’s mission to combat homelessness. Timothy Denham, vice president of urban planning at Wood Rodgers (CRP ’83), focused on responding to climate change impacts. CAED student Tori Hertz (ARCH ‘19) successfully worked with her student team and the city of Weed to rebuild housing after the destructive Boles Fire. California State Architect Chester (Chet) Widom encouraged attendees to get involved in promoting resiliency by design in the private and public sectors. The college is extremely grateful to DLC member Mike Corrick, his wife Ronnie, and Nacht and Lewis for hosting and sponsoring this exciting event.

Cal Poly Gatherings raise awareness about issues affecting our built environment and provide a forum for crowd-sourcing solutions. If you are interested in sponsoring a Cal Poly Gathering in your area, please e-mail us at CAED@calpoly.edu.
Michael R Bartlett (CM ‘79), the CEO and founder of Horizon Partners Northwest, is contributing to Tacoma, Washington’s steady and sustainable revitalization through projects that focus on adaptive reuse and historic renovation. Their latest project, Brewery Blocks Tacoma, will be the first development in the city to utilize cross-laminated timber panels.

Giuliana Benedicty (ARCH ‘01) is living in New York City and working at Hunter Roberts Construction Group.

Christopher Brown (ARCH ‘05), principal at arkitek:design&architecture, received the 2017 AIA Emerging Professionals Award for innovation in civic design.

Richard Byfield (ARCH ‘73) is busy in Florida aiding FEMA with disaster recovery.

Dylan Chappell (ARCH ‘06) is a licensed architect with his own firm, Dylan Chappell Architects based in Carpinteria, California. He also teaches architecture at Ventura College.

Ross Elliott (CRP ‘82) serves as the executive director of the California Ambulance Association (CAA), headquartered in Sacramento, working to improve ambulance services and the EMS profession statewide. He attributes his ability to switch careers multiple times over the past 30 years to the foundation of knowledge and critical thinking skills that he gained at Cal Poly.

Emily Foley (CRP ‘16) passed the AICP exam and will receive her AICP Certification next year.

George Garcia (ARCH ‘89) of Garcia architecture + design, is celebrating his firm’s 20th anniversary.

Keith Gurnee (CRP ‘73) was elected to the San Luis Obispo City Council in 1971 as a 23-year-old student of Architecture at Cal Poly. At the time, he was the youngest elected official serving in the State of California. In 2018, he campaigned again, this time for mayor.

With support from the Hearst Foundations, Architecture Department Head Margot McDonald and Austin Hearst (LA ‘78), picture below, hosted Cal Poly President Jeffrey D. Armstrong, Dean Christine Theodoropoulos and more than 100 alumni who celebrated at Hearst Tower in NYC during the AIA Conference in June. Recognized at the reception for their election to the AIA College of Fellows were two alumni, Mark Jensen, FAIA (ARCH ‘86), of Jensen Architects and Sean Towne, FAIA (ARCH ‘81), of Research Facilities Design.

The Vilcek Foundation’s mission to celebrate and raise awareness of immigrant contributions to the U.S. is continued annually with awards honoring professionals in rotating disciplines. This year, the top prize of $100,000 went to Guatemala-born designer Teddy Cruz (ARCH ‘87) of San Diego-based Estudio Teddy Cruz + Fonna Forman.

Luis D’Carpio (ARCH ‘96) is the vice president of asset and risk management and chief sustainability officer for YMCA of San Diego County. The role includes oversight of the real estate portfolio as well as efforts to build and renovate with an emphasis on sustainable design, construction, operations and maintenance.
William L. Hurley (CRP ’71), of Dos Osos Timberworks, Garret McElveny (ARCE ’13), formerly with Dos Osos and now with Taylor & Syfan Engineering, Michael Garavaglia (ARCH ’81) and Ambrose Wong (ARCH ’93), both with Garavaglia Architecture, were instrumental in repurposing and rebuilding a historic 1868 hay barn for UC Santa Cruz’s Center for Agroecology and Sustainable Food Systems. The project received six awards and will soon achieve LEED Gold status.

Joe Karten (CM ’05) found himself working in Australia after a 2006 Victor Regnier Travelling Fellowship world tour of green buildings. After 10 years of professional practice, he was recognized by the Property Council of Australia with the 2017 Future Leader of the Year award for his work with Built and he was recently promoted to national sustainability manager. He credits the caring and dedicated professors at Cal Poly for giving him the inspiration, guidance and an appreciation for the art of construction that has made him successful today.

Benjamin Kasdan (ARCH ’03), of KTGY Architecture + Planning, will serve as the 2019 president of the AIA California Council, which provides unified representation in matters affecting the state’s architectural profession.

Michael Holliday (M.S. Arch ’83), principal at DMHA Architecture + Interior Design, was elected as chairman of MIT Enterprise Forum Central Coast, a group that hosts business and technology events designed to educate, inform and inspire entrepreneurs.

Dave Javid (MCRP ’04), founder of the consulting firm PLAN to PLACE in San Anselmo, California, is collaborating with jurisdictions and community leaders to co-create and implement inclusive community engagement strategies including a transit hub with the city of San Jose and Google.

Trevor Keith (MCRP ’03) was appointed director of the Planning and Building Department for San Luis Obispo County in August 2018. He will lead the county’s efforts to implement land-use planning, development and resource-management policies and priorities.

Engineered by Erik Kneer (ARCE ’01) and Mary Kretschmar (ARCE ’14) of Holmes Structural Group in San Francisco, the Black Rock Lighthouse Service project was one of the most iconic features at the Burning Man festival in 2016. The installation consisted of three leaning lighthouses (below), ranging from 15 to 40 feet tall, surrounding a central, 60-foot lighthouse. The project was featured in the June 2018 issue of STRUCTURE Magazine. Selinda Martinez (ARCE ’10) of Rbhu Engineering Imagination also engineered an installation for the 2018 Burning Man event, entitled, “Bliss Dance.”

Roberta Jorgensen (BArch ’75), principal of Communitas Architects Inc. and a Fellow of the AIA, is consulting with Cal Poly to create the Campus Master Plan 2035. The plan envisions the future of a sustainable, residential, Learn by Doing university environment.
Karen Cribbins-Kuklin (ARCH ’82), a principal and studio director at Gensler, was instrumental in repurposing a truckload of donated chairs, and soon tables, to benefit students. Below, a student enjoys a comfortable study session in the college’s Neel Resource Center.

Joseph Lipscomb (ARCE ’61) was photographed at the Oregon Korean Memorial by Rami Hyun as part of “Project Soldier,” a visual story on display in Seoul.

Mario Madayag (ARCH ’80), principal architect for City Centre Design in Auckland, New Zealand, is working across the Downtown Infrastructure Development Programme, consisting of three streetscapes and associated marine structures — all to be completed in time for the next America’s Cup challenge.

Jonathan McMurtry (ARCH ’88), associate principal and regional market leader for Lionakis, provides design leadership for the San Francisco, Sacramento and Newport Beach offices as well as expanding the higher education market for those offices.

Megan Snyder (ARCH ’15) recently became a registered architect in the state of California. She is working at Gregg Maedo + Associates, Inc.

Dana Stahl (ARCH ’77) was named Teter A+E’s 2017 Professional of the Year and promoted to associate architect.

Darrell “Rocky” Rockefeller (ARCH ’79) is a partner at Rockefeller Kempel Architects, recipient of several prestigious design awards including PCBC’s Grand Gold Nugget Award for its Willamette Valley Residence as well as two Awards of Excellence from the Los Angeles Business Council.

Eric (Joe) Shaw (ARCE ’63) re-retired after 54 years of civil engineering practice on significant projects such as Disney World in Florida and the Interstate 210 Freeway in San Bernardino County.
Edward “Bud” Skibitzke (ARCH ‘69) has spent many years in architectural practice as well as on missions trips to Central America, primarily assisting children’s homes in Nicaragua with various construction projects. He founded BarroNica Building Products Inc., which makes terracotta clay roof and floor tiles by hand in Nicaragua for distribution around the world.

Alexia Meade (ARCH ‘11), of Gensler, Ben Meade (ARCH ‘11) of Alloy Development, and Anthony Stahl (ARCH ‘11) of L&L Holding Company formed the design collective “MAISON” and won the $25,000 grand prize of the Fisher Brother’s Median Design Competition “Beyond the Centerline.” Nearly 150 entries were challenged to rethink how medians are utilized on the 11 blocks from East 46th Street to East 57th Street in New York city. Their entry, Park Park, earned major media coverage and proposed elevated platforms with unique programming on each block, such as this sports court.

SUPPORT STUDENT LEARNING WHILE EARNING

As founding partner of KTGY Architecture + Planning, John Tully (LA ’79) attributes much of his success to his Cal Poly experience. Since retiring, he’s learned about the college’s goal to support 100 on-campus “earn by doing” student job opportunities, which has inspired him to do his part. “The university has given me numerous amazing opportunities and giving back is just the right thing to do.” Through his generosity, he is supporting 10 “earn by doing” positions in the CAED Support Shops over the next 10 years. John is hoping that alumni, especially his classmates, follow his lead. “When we were in school, it cost much less to attend Cal Poly. We’ve been blessed several times over, and now it’s time to support the next generation of leaders in the built environment.” See page 15 for more on how students develop valuable skills while they “earn by doing.”

SUPPORT POLY CANYON

The Experimental Practices Laboratory, known as Poly Canyon, was dedicated by George Hasslein in 1963. Unfortunately, time and vandalism have taken a toll on the structures. The college and the student committee Canyon Days Group (CDG) work to maintain and renovate the space. The CDG organizes “work days in the canyon,” attracting volunteers from across the university. Their efforts have sparked renewed interest in the canyon. Recently, students Patrick Kelty (LA ‘18) and Antonio Baldazo (ARCE ‘18), created signage to change the perceptions and narrative about the area. They found inspiration from a quote by George Hasslein, “Here we seek to abolish the distance between theory, design and construction. For the things we have to learn, before we can do them, we learn by doing them.” We invite you to visit Poly Canyon and support the CDG as they experience Learn by Doing. (www.caed.calpoly.edu/caed-giving)
RRM SCHOLARSHIP ENDOWMENT: GIVING THROUGH AUCTIONING

RRM Design Group, a San Luis Obispo-based architecture, engineering, and planning firm, is led by a Cal Poly alumnus, Erik Justesen (LA '83) and employs alumni from multiple Cal Poly colleges. In keeping with the company culture of collaboration and innovation, the firm is raising funds as a team to support current College of Architecture and Environmental Design (CAED) and College of Engineering (CENG) students.

RRM was founded 44 years ago, by three Cal Poly architecture students and a Cal Poly professor. It has provided scholarship funds through an endowment they started more than 20 years ago through the CAED. In 2018, the group discovered a creative way to increase their scholarship endowment. RRM hosted an online auction fundraiser for RRM employees, select clients and community members. Participants bid on approximately 40 different adventures and events hosted by RRM staff. Nicole Stephens (Graphic Communication '06), states “Approximately 65 percent of the 130 professionals working at RRM are Cal Poly grads and over the course of our 44-year history, we have employed over 250 Cal Poly grads, so we are quite excited about this fundraising project. All the items in the auction were provided by RRM staff members and included a diverse range of experiences and items including coffee tastings, fungus hunting, beer tours, glamping trips, surf lessons and more.”

Nicole, the marketing manager at RRM, organized the auction and hoped to raise approximately $10,000 this year. The company raised more than $5,000 through the auction and RRM matched the money raised for a total donation of $10,138.

She adds, “Overall the auction was a great success. Our staff was able to contribute to a cause that they feel strongly about, and use their talents and hobbies to provide fun experiences or items to their fellow coworkers.”

WIN A CASE OF CAL POLY WINE!

Submit the email addresses of your fellow alumni, and you’ll both be entered into a drawing for a case of Cal Poly wine and other tasty prizes. It will help us communicate news and events to the greater CAED community. Prizes include four cases of Cal Poly wines, and gift cards for jams, chocolates and fitted gear of your choice!

To enter, please visit www.alumni.calpoly.edu/email-drawing. Simply click on the link and fill in the blanks by Feb 28, 2019. You’ll be entered and so will they! Enter as many times as you’d like and share this link with other alumni, too.

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Phone: (805) 756-7432

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www.instagram.com/calpolycaed
www.linkedin.com/school/calpolycaed
FACULTY NEWS

RESEARCH
CAED faculty are engaged in exciting research funded by the Cal Poly Research, Scholarly and Creative Activities Grant program. Congratulations to:

- **Anahid Behrouzi** (ARCE) and **Peter Laursen** (ARCE) for their grant to investigate improving ductility of slender reinforced concrete walls with FRP sheets and splay anchors.

- **Emily White** (ARCH) for her successful proposal, “Big Glue! Testing the Scalability of Adhesives in Architecture and Design,” in collaboration with chemistry faculty Eric Sapper.

- **Amir Hajrasouliha** (CRP) whose proposal, “The Academic Use of Campus Open Spaces: How to Make It Happen,” was funded and whose article focused on student wellness and performance, “Master Planning the American campus: goals, actions and design strategies,” was published in Urban Design International.

Congratulations to **Dahlia Hisham Hafez** (ARCE) for attaining her professional engineer license in Canada. She also co-authored “General Regression Neural Network Modeling of Soil Characteristics from Field Tests,” which was published in the International Journal of GEOMATE.

**Ellen Burke** (LA) delivered a conference presentation “Un-thinking gentrification: engaging with bias and privilege in landscape architecture education” at the Council of Educators in Landscape Architecture. Additionally, her article “Women’s Work: An Eco-Feminist Approach to Environmental Design” was published in the Avery Review, and she received a grant from ArtPlace America that helped her work on food systems in San Luis Obispo County as part of SLO Map.

**Laura Tate** (CRP) co-edited, with Brettany Shannon, the book Planning for AuthentiCITIES, detailing authenticity as an amalgam of a sense of place and social inclusion.

**Dale Clifford** (ARCH) and his student team are developing adaptable building tiles which allow buildings to perform better under fluctuating environmental conditions. The smart tile design is based on the notion that plants and organisms adapt to changing environmental conditions in order to maintain equilibrium.

Plaster embedded phase change tiles shaped to induce airflow and lower (or eliminate) reliance on mechanical conditioning. Intended for interior wall surfaces.

Architectural engineering faculty members **Craig Baltimore** and **James Mwangi** received a patent for their invention entitled “Method for Self-Consolidating Grout.” The patent is based on their research on high lift grouting for concrete masonry units (CMU) and is awarded in partnership with the Concrete Masonry Association of California and Nevada.

AWARDS

**Distinguished Teaching Award**

**Thomas Fowler** (ARCH) earned the Distinguished Teaching Award, which recognizes faculty who demonstrate excellence in teaching at Cal Poly. It is especially significant since only students and alumni — those who have been touched by the faculty — are eligible to submit nominations. Fowler was recognized for teaching third-year design and building technology courses, working with independent study students, co-teaching a combined interdisciplinary fourth-year studio and a graduate-level building design studio. In addition, he is also director of the graduate...
architecture program and oversees the award-winning Community Interdisciplinary Design Studio (CIDS) that he founded in 1997 to give students access to cutting-edge digital technology for the design and construction of a range of interdisciplinary projects. He joins a record number of faculty with this honor in a single department.

Architectural Engineering (ARCE) Department Head Allen Estes (center) accepted the 2018 American Society of Civil Engineers Walter LeFevre Award on behalf of the ARCE program, which received this national recognition in the large group category for promoting the highest professional standards in licensures, ethics and professionalism. The ARCE faculty and students have built a two-decade track record of an 85 percent pass rate on the Fundamentals of Engineering exam, which is the first step required to attain a Professional Engineer license.

Cal Poly’s Center for Innovation and Entrepreneurship (CIE) named Phil Barlow (CM) — as one of four Cal Poly faculty — to its Faculty Fellows Program, which is part of an interdisciplinary community that is committed to inspiring the next generation of entrepreneurs.

Patrick Hill (ARCH Emeritus) will be recognized in this fall’s publication of the book, Space Settlements, about the architectural, historical, social, and science-fictional contexts surrounding NASA’s efforts to design large-scale human habitats in orbit during the 1970s.

Kelle Brooks (ARCH), shown with President Armstrong, received a Service Learning Faculty Award for Interdisciplinary student collaborations for local, underserved K-6 schools in the area including an outdoor learning environment.

Emily White’s (ARCH) installation “Wavelength,” commissioned as part of a new permanent collection at the Fort Lauderdale airport, has been included in the Americans for the Arts Public Art Network (PAN) Year in Review, which recognizes outstanding public art projects.

The architecture design concepts and sculptural work of Joe Kourakis (CRP emeritus) were featured on an episode of Ears on Art, a bi-weekly segment on radio station KCBX in San Luis Obispo, California.

FORUMS
Margot McDonald (ARCH), William Siembieda (CRP) and steering committee members coordinated the Symposium on Resilient Design: State of the Art & Emerging Issues in February 2018. It brought together leading professionals involved in the design, and making of buildings and landscapes to present their resiliency work, to think about the future and to debate the most pressing issues.
The proposal California Public-Private Partnerships create ‘Workforce’ Housing by Hemalata Dandekar (CRP) was accepted for inclusion in the NPC18 educational program at the APA National Planning Conference in New Orleans in April 2018.

Michael Boswell (CRP) represented the ACSP at a set of special meetings at the UN Climate Conference organized by UN-Habitat at the COP-23 to develop a “Planners for Climate Action” initiative in support of the Paris climate agreement. Boswell also contributed a chapter in the book Climate Change and Cities focusing on SB 375, a sustainable communities and climate protection act.

NEW FACULTY
Keith Woodcock, City and Regional Planning
Joseph Cleary, Construction Management

RETIREES
Chris Clark, City and Regional Planning
Erling Smith, Architectural Engineering
Shelly Steck, College of Architecture and Environmental Design
Gary Clay, Landscape Architecture

PROMOTIONS
Adrienne Grieve (CRP), Doug Jackson (ARCH), Scott Kelting (CM) and Peter Laursen (ARCE) promoted to professor
Dale Clifford (ARCH) promoted to associate professor and awarded tenure
Stacy Kolegraff (CM) promoted to assistant professor

CAED WELCOMES JESSICA OTTEN
Jessica Otten joined the CAED in August as the senior director of development. Jessica was the director of development at Arizona State University’s Julie Ann Wrigley Global Institute of Sustainability and School of Sustainability. Prior to her role in development and after receiving her Master of Environmental Planning, Jessica worked as a program manager and environmental planner in Arizona. Her fundraising experience combined with her professional and educational background in the built environment make Jessica an ideal addition to the college.

She grew up in San Luis Obispo and “values the culture and sense of community that makes this one of the happiest cities in America.” Jessica brings a positive and refreshing perspective to the college and has begun to forge lasting relationships within the CAED community. She adds, “it’s an exciting time to join the CAED family! Thanks for your tremendous support so far. I look forward to working together to build a transformative CAED experience for students, staff, alumni, and friends, now and for generations to come.” Jessica can be reached at (805) 756-6144 or at otten@calpoly.edu.
# 2018–19 DesignIntelligence Rankings at a Glance

**COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN**

Results from the annual Top Architecture Schools survey. Read more at our nationally recognized programs at [www.caed.calpoly.edu](http://www.caed.calpoly.edu)

<table>
<thead>
<tr>
<th><strong>5 DEPARTMENTS</strong></th>
<th><strong>8 DEGREE PROGRAMS</strong></th>
<th><strong>16,000 ALUMNI</strong></th>
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### ARCHITECTURE

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<th>#1</th>
<th>Most Admired Undergraduate Program Among Public Universities in the U.S.</th>
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<tr>
<td>#3</td>
<td>Most Admired Undergraduate Program Nationally by Leaders and Hiring Managers</td>
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### LANDSCAPE ARCHITECTURE

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<th>Most Admired Undergraduate Program Among Public Universities in the U.S.</th>
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<tr>
<td>#6</td>
<td>Most Admired Undergraduate Program Nationally by Leaders and Hiring Managers</td>
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### DESIGN EDUCATION FOCUS AREAS: ARCHITECTURE

*Top three in 11 out of 12 design education focus areas and No. 1 in seven categories:*

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<tr>
<th>#1 Construction Materials and Methods</th>
<th>#1 Engineering Fundamentals</th>
<th>#1 Healthy Built Environments</th>
<th>#1 Transdisciplinary Collaboration Across A/E/C</th>
<th>#1 Project Planning and Management</th>
<th>#1 Practice Management</th>
<th>#1 Sustainable Built Environments/Adaptive Design/Resilient Design</th>
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“We are exceptionally proud of our students, faculty, and staff in sustaining excellence in architectural design education that continues to be recognized by the profession.”

*Margot McDonald, Architecture Department Head*

### DESIGN EDUCATION FOCUS AREAS: LANDSCAPE ARCHITECTURE

*Top five in 11 out of 12 categories, including top three rankings in the following six areas:*

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<tr>
<th>#1 Transdisciplinary Collaboration Across A/E/C</th>
<th>#2 Construction Materials and Methods</th>
<th>#3 Engineering Fundamentals</th>
<th>#3 Healthy Built Environments</th>
<th>#3 Interdisciplinary Studies</th>
<th>#3 Project Planning and Management</th>
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“We are proud our program continues to be rated one of the top in the nation. This would not be possible without our dedicated faculty, who prepare our graduates for success...”

*Professor Omar Faruque, Landscape Architecture Department Chair*
CAED EVENTS

DECEMBER 15
Cal Poly/CAED Fall Commencement
Cal Poly Recreation Center

JANUARY 17
CAED Career Fair
Cal Poly Chumash Auditorium

JANUARY 23–24
Winter Career Fair
Cal Poly Recreation Center

JANUARY 31
Construction Management Career Fair
Cal Poly Chumash Auditorium

JANUARY–JUNE
Los Angeles Metro Program Lecture Series
Various SoCal Locations

FEBRUARY 9
Architectural Engineering Structural Forum and Dinner
San Luis Obispo

MARCH 7
Poly Gives/Days of Giving
San Luis Obispo

MARCH 8
Architectural Engineering Alumni Reception
San Francisco

MARCH 14–16
Architecture Class of ‘85 Class Reunion
San Luis Obispo

MARCH 15
Landscape Architecture Senior Show
San Luis Obispo

APRIL 11–13
Cal Poly and CAED Open House Alumni Beer and Wine Garden

APRIL 17–18
Spring Career Fair
Cal Poly Recreation Center

APRIL 26–28
Design Village Competition
Poly Canyon

APRIL 26
Annual Simpson Strong-Tie Symposium
Factory and Training Center, Riverside

MAY (TBD)
Evening of Green and Gold
Cal Poly

MAY 24–26
Architecture 5th Year Show
San Luis Obispo

JUNE 7
Landscape Architecture 5th Year Show
San Luis Obispo

JUNE 7–8
CMAC meeting, Construction Management Spring Banquet and Golf Tournament
Cypress Ridge Golf Course, Nipomo

JUNE 6–8 (TBD)
College of Architecture and Environmental Design Alumni Event at the AIA Conference on Architecture
Las Vegas

JUNE 15
Cal Poly/CAED Spring Commencement
Alex Spanos Stadium

ONGOING
For the Hearst Lecture Series and event updates, go to www.caed.calpoly.edu or email caed-events@calpoly.edu

For career fairs explore: careerservices@calpoly.edu