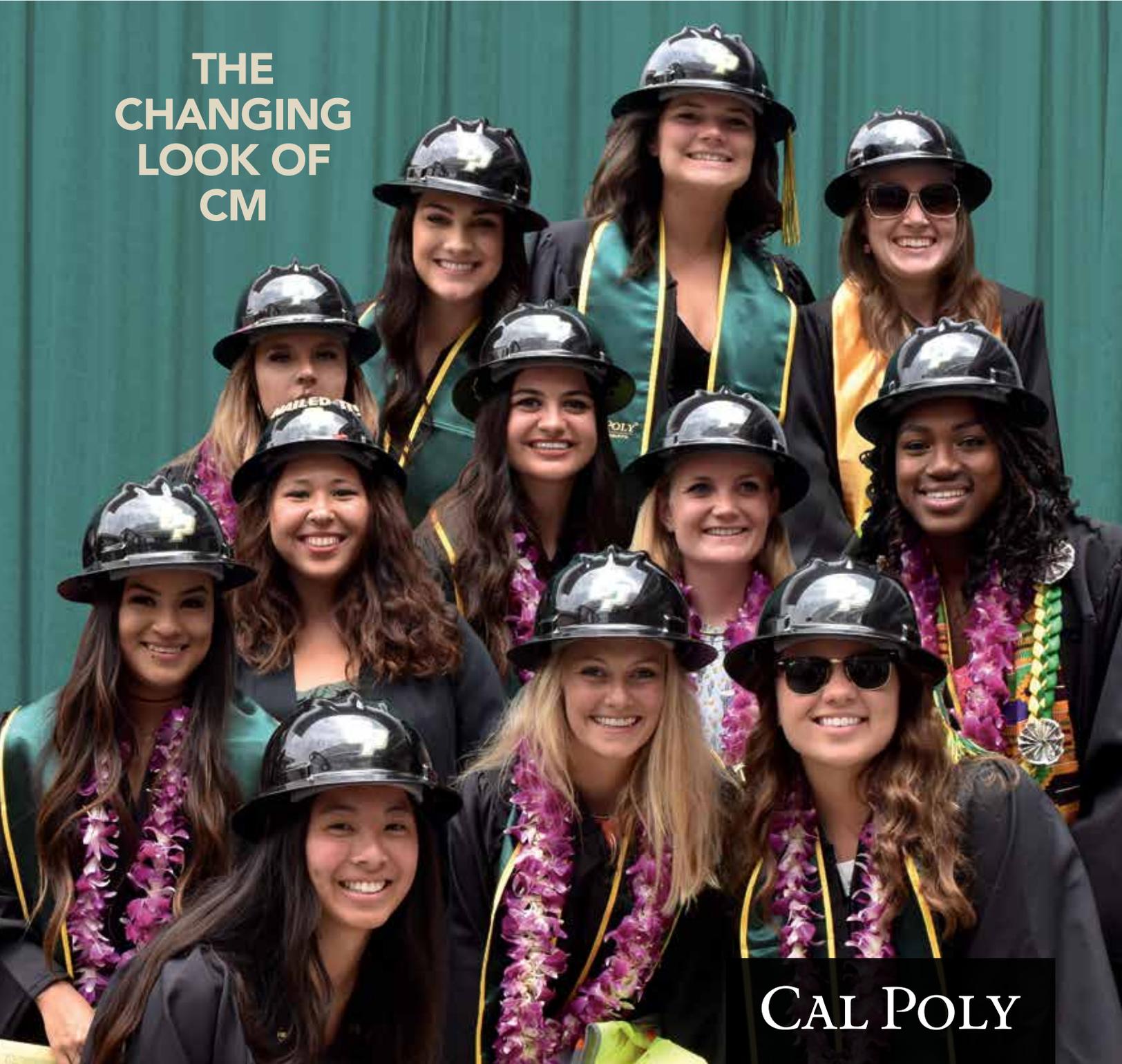


CONSTRUCTION

INNOVATOR

CONSTRUCTION MANAGEMENT DEPARTMENT | COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN | FALL 2017

THE
CHANGING
LOOK OF
CM



CAL POLY



DEPARTMENT HEAD'S MESSAGE

Big Buildup

2017-18 BRINGS MORE STUDENTS, FACULTY AND GREATER DIVERSITY

Fall is always an exciting time at Cal Poly, and this year is no exception. A large freshman class of around 100 new and transfer students has pushed our enrollment to a new record; more than 500 students are enrolled in construction management!

This year's incoming class is one of the best ever academically and is also one of the most diverse. For the first time in our history, 24 percent of new freshmen are women. The featured articles in this issue highlight the contributions of female students, faculty and alumnae to our profession. We also look at student performance in national and regional competitions — impressive as always!

As the department grows, so does its faculty. I want to introduce you to three new lecturers who will help us to meet this demand. Our dedicated faculty and administrative staff allow us to prepare the future leaders in construction. I am both in awe of — and indebted to — their contributions to the department.

We also bring you news of the CM alumni who are changing the face of California and the region. If you haven't sent us an update recently, please let us know what you are up to.

Those of you who read my letters carefully are probably wondering why I'm still here! Last year I wrote of my intention to step down as department head and return to teaching. However, after an unsuccessful national search to fill this position, the dean asked me to stay on for another two years. While I will miss the opportunities full-time teaching provides, I am happy to remain in the job as we prepare to search again in 2018-19. There is much to be accomplished and plenty to keep us busy until then!

As always, please make a point of visiting campus any chance you get. We would love to show you around and let you know about our students' accomplishments. We can't do this without your active support; thank you for everything you do for us.

ALLAN J. HAUCK | PH.D., CPC

Al Hauck (left) on-site in downtown Los Angeles with industry partner Rudolph & Sletten.



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ABOVE: Department Head Al Hauck visits construction management alumnus Brian Bolandi ('10) at industry partner DPR's job site in San Francisco.

PHOTO BY BRIGETTE OLMOS-ARREOLA

ON THE COVER: Cal Poly's Construction Management Class of 2016 brimmed with female students — testimony that women are increasingly choosing to study construction management and other traditionally male-dominated fields. On pages 16-23, six CM alumnae share their thoughts about what it's like to be a woman working in the industry.

2016 alumni on the cover are:

Top row (from left): Jackie Hawkins, Breanne Forster, Maja Harren and Lauren Norwood.

Middle row (from left): Rachel Holden, Natalie Shideh, Marina Rosso Jasmine Lomax.

Bottom row (from left): Sandra Guerra, Jocelyn Kenmotsu, Torrie Peth and Parker Haerr.

COURTESY PHOTO | COLLAGE: SHIRLEY HOWELL

Comments and content contributions are welcome for the annual Construction Innovator. **Contact:** Jenay Reynolds-Sibbach at jreyno00@calpoly.edu or 805-756-6385. **Content Manager:** Department Head Al Hauck | **Project Coordinator:** Jenay Reynolds-Sibbach | **Writers:** Jo Ann Lloyd; Jessica Frazier **Designer:** Shirley Howell | **Photography:** Courtesy photos | **Copy Editing:** Jo Ann Lloyd; Cal Poly Communications | **Printing:** V3

ATTRACTING A CROWD

THE ADVISORY COUNCIL INCREASES ACTIVITIES TO FURTHER ENGAGE INDUSTRY AND FOSTER ALUMNI CONNECTIONS

The Construction Management Advisory Council (CMAC) is focusing on alumni outreach and engaging alumni with new initiatives.

Membership continues to grow, and a new Executive Committee was voted in this spring. Pat Callahan (Construction Management, '75) of Hathaway Dinwiddie Construction Co. will serve as president; Marcus Staniford (Construction Management, '91) of XL Construction will be vice president; and Rick Pomeroy (Construction Management, '91) of Skanska will serve as secretary.

A new Technology Committee was also created with seven members and will be led by Chairman Matty Reed (Construction Management, '15). This committee is working to educate faculty and students on the different technologies being used in the industry while hoping to better equip students with the knowledge they will need when joining the workforce.

For the first time, CMAC hosted an alumni mixer at the Associated Schools of Construction Region 6 and 7 Student Competition in Reno last February. About 85 people attended the event, making it the largest mixer to date held by the department. "We are happy to have been able to connect with so many industry members, alumni, faculty and students at one mixer. These connections are part of what makes our department so special," said CMAC Executive Secretary Brigitte Olmos-Arreola.

CMAC started sponsorship of the recently rebooted Sigma Lambda Chi chapter, part of the international

CMAC ACTIVITIES

2017 Tailgate Events

Oct. 21, Nov. 4

2017 Outreach Events

Nov. 3 CMAC Fall Board Meeting

Nov. 3 Sigma Lambda Chi Induction Dinner

2018 Outreach Events

Feb. 9 ASC Student Competition Alumni Mixer

March 8 San Francisco Winter Mixer

March 15 San Diego Winter Mixer

June 8 CMAC Spring Board Meeting

June 8 ASCM/CMAC Spring Social

July 19 Los Angeles Summer Mixer

Aug. 23 San Jose Summer Mixer

construction honor society. CMAC sponsored this year's society's induction dinner in January at Café Roma. This year's dinner will be held Nov. 3 in conjunction with CMAC's biannual board meeting.

CMAC also helped sponsor the 2017 Spring Social, attended by 120 students, faculty, staff, alumni and friends from industry. The annual event is organized by students in the Associated Students of Construction Management Club. During the event, scholarship recipients, senior award winners and the department's winning team members were recognized. ■





Left: Alumni, industry guests, students and their families enjoy mingling at the Spring Social, co-sponsored every June by the Construction Management Advisory Council (CMAC).

PHOTO BY PATRICIA ZEE

Below: Students participating in CMAC's Carpenters Internship program benefit from the council's partnerships with the International Brotherhood of Carpenters and industry.



Brightening Lives

A TEAM OF CONSTRUCTION MANAGEMENT STUDENTS, FACULTY AND ALUMNI BRINGS ENERGY TO A SCHOOL PROJECT IN BELIZE



In December 2016, a team of Cal Poly Construction Management (CM) Department faculty and students traveled to San Pedro, Belize, to install 14 photovoltaic (PV) panels on a school roof to reduce costs and provide a more stable source of energy.

The installation at the San Pedro Roman Catholic School concluded many months of planning by David Mulder (Construction Management, '16), Kent Beecham (Construction Management, '16), and students Austin Stewart, Joe Gugale and John Pezzini, all members of the student chapter of the National Electrical Contractors Association.

Project lead Mulder was involved in every step of the process, including securing funding, engineering the system, procuring materials and overseeing the installation. The other team members tackled design, budget, scheduling and installation.

CM Professor Lonny Simonian and Lecturer Paul Redden guided the team throughout the project. Simonian's CM 411: Specialty Construction class helped with the design. "The students helped with the drawings and did a great job of double-checking our calculations," Mulder said.

To round out the team, the students invited recent CM alumni to lend their expertise. Dan Twomey (Construction Management, '13), an apprentice electrician with IBEW Local 332, and Parker Haerr (Construction Management, '16), a project engineer with Sprig Electric, were instrumental in procuring materials, determining tool needs, and providing industry-specific recommendations for the installation.

After months of pre-construction work, the team faced many hurdles upon arriving on the island of Ambergris Caye, off the coast of Belize. "From the moment we landed, it was obvious that the heat and humidity would be major factors during installation," Twomey said. "But we came together as a team and used our strengths to get the job done."

Team members (left) complete the installation of photovoltaic panels on the school's rooftop.



Team members (above, from left) include John Pezzini, Kent Beecham, Austin Stewart, Joe Gugale and David Mulder.

The next setback was a shipping delay that resulted in tools and materials arriving two days after the team. "We had a tight installation window to begin with, and the delay meant we were in for some very long days," Stewart said. Compounding the problem were two days of tropical rainstorms. However, the team persisted, and the installation was completed — to the cheers of the school children.

The Cal Poly team had enlisted the help of one other key asset, local electrician Eddie Halliday, whose expertise proved invaluable. "Belize electricians often perform 'hot work' on energized panels. Eddie did all that work himself and made sure our team was safe," Haerr said.

Team members were richly rewarded for their hard work and dedication. "Getting the chance to work in a Caribbean paradise and present a fully functional solar energy system to the people of San Pedro was priceless," Beecham said.

Mulder echoed that gratitude. "I'm thankful for the experiences that Cal Poly and ELECTRI provided me. Now that I've graduated, I'm putting those experiences to work in my new role as a project engineer with Sprig Electric." ■

THANKS, SUPPORTERS!

The photovoltaic project was a group effort by many individuals and organizations.

ELECTRI International's Student Passport Initiative supported the effort with a \$20,000 grant, and several additional sources provided cash donations, tools and materials, and technical support. The National Electrical Contractors Association supported the student chapter with generous scholarships to help offset travel costs.

CM administrative coordinators Jenay Reynolds-Sibbach and Julie Zafiratos handled budget tracking and reconciliation, shipping logistics and travel details.

The CM Department is grateful to:

ACME
Collins Electric Co. Inc.
Cupertino Electric
ELECTRI International
GexPro
Eddie Halliday
IES
LLD Electric
Dick and Brad McBride
Milwaukee Tools
National Electrical Contractors Association
Pacific Energy
Shea Electric
South Wire
Sprig Electric
Sun Power



COMPETITIONS

In The Spotlight

CAL POLY STUDENTS SHINE IN CONTESTS NATIONALLY, ABROAD

Cal Poly's construction management students take Learn by Doing to another level when they compete in national and international competitions. As usual, they earned top spots in several competitions during the 2016-17 academic year.

ASSOCIATED SCHOOLS OF CONSTRUCTION (ASC) REGION 3

Cal Poly's Electrical Team took top honors at the ASC Region 3 Student Competition, which drew 46 teams from 22 universities to the Chicago suburb of Downers Grove, Illinois from Oct. 12-15, 2016.

Cal Poly's Preconstruction Team and Concrete Team also competed. The students traveled to the Midwest with faculty advisor Greg Starzyk. "We are so proud of the work delivered by all three teams," Starzyk said. "The competition in Chicago is excellent."

On the first day of competition, student teams have 16 hours to analyze and evaluate their problem and to prepare detailed written proposals. The following day, team members give a 30-minute presentation to a panel of professionals, followed by a 15-minute question-and-answer session.

Starzyk will accompany four teams to Chicago for the 2017 Region 3 competition in October.

In other news, Starzyk was named an ASC Outstanding Educator at the 53rd

Cal Poly's Commercial Team (above) placed first in the Region 6 and 7 Associated Schools of Construction competition. Back row (from left) are: Kyle Fawley, Will Leonard, Marco Maffioli and their coach, Department Head Al Hauck. Front Row (from left): Brittney Lerdahl, Cole Range, Luke Ostrom and Mikey Foley. Not pictured: Brendan Donovan.

General Meeting of the ASC, held in Seattle in April 2017. (See *Faculty News*, Page 32.)

ASC REGION 6 (ROCKY MOUNTAIN REGION) AND 7 (FAR WEST REGION)

Cal Poly's Commercial Team, coached by Department Head Al Hauck, took first place at the ASC's 30th annual Student Competition and Construction Management Conference, held in Sparks, Nevada,

Feb. 8-11. The Concrete Team, coached by Paul Weber; the Sustainability and LEED Team, with coach Scott Kelting; and the Mechanical Team, coached by Paul Redden and Greg Starzyk, all took second place in the annual competition.

ASC REGION 8 INTERNATIONAL STUDENT COMPETITION

Faculty coach Lonny Simonian and student team members Kent Beecham, David Mulder, Dan Leavens and Marco Maffioli traveled to the U.K. in mid-November 2016 to compete in the Region 8 International Student Competition, hosted by the University of Reading in Berkshire, England. Although they didn't place, the students were enriched by the international experience.

GRAPHISOFT NORTH AMERICA STUDENT DESIGN COMPETITION

While a student in 2016, Trevor Houghton (Construction Management, '17) took second place and won \$1,000 at the inaugural Graphisoft North America Student Design Competition.

The contest challenged U.S. students enrolled in architectural or interior design programs to use ArchiCad (building software) to design a temporary, "pop-up" visitors center in Philadelphia using shipping containers as the primary material. A panel of judges reviewed the entries that were submitted through an online portal. Lecturer Elbert Speidel was the coach.

NATIONAL ASSOCIATION OF HOME BUILDERS (NAHB) 2017 RESIDENTIAL CONSTRUCTION MANAGEMENT COMPETITION

An interdisciplinary team of Cal Poly construction management, architecture, agribusiness and business students took third place in the Four-Year College category of the NAHB Residential Construction Management Competition held at the 2017 NAHB International Builders' Show in Orlando in January.

Student teams are tasked with developing a real-life construction management proposal for a residential subdivision. Faculty coaches Scott Kelting and Stacy Kolegraff accompanied the team.

WINNING TEAMS AND SPONSORS

ASSOCIATED SCHOOLS OF CONSTRUCTION — REGION 3

First Place: Electrical Team — Irl Barajas (co-captain), Keenan Brekke, David Mulder (captain), John Pezzini (co-captain), Elliot Pyon and Kelly Williams

ASSOCIATED SCHOOLS OF CONSTRUCTION — REGIONS 6 AND 7

First Place: Commercial Team — Kyle Fawley, Brittney Lerdahl, Will Leonard, Marco Maffioli, Luke Ostrom (captain), Cole Range (co-captain) and alternates Brendan Donovan and Mikey Foley

Second Place: Concrete Team — Keenan Brekke, Nick Halle, Adam Maclean, Kelly Martz, Jack Robinson (co-captain), Matthew Stephens (captain) and alternates Grant Bettisworth and Jimmy Fewell

Second Place: Sustainability and LEED Team — Cameron Berkins, Faith Johnson, Trevor Nally, Austin O'Mara (captain), Nicholas Somera, Austin Stewart, (co-captain) and alternates Dustin Sullivan and Chelsea Trumbull

Second Place: Mechanical Team — A.J. (Alexis) Chamorro (captain), Josh Heath, Gary Hohbach, Richard Huang (co-captain), Jesseka Zappe and alternates Maggie Lai and Joe Lofaso

NATIONAL ASSOCIATION OF HOMEBUILDERS

Third Place: Four-Year College Category — Team members: Construction management students Eric Bet (captain), Keenan Brekke, Zak Faber, Kyle Haggard, Jeffrey Hammond, Peter Lee, Jimmy Materne, Jeremy Suryadi; agribusiness student Bercut Smith; architecture students Billy Blaha and Joe Lynch; business students Tiffany Chen and Sam Godfrey.

The students presented their work to a panel of industry judges. The competition attracted 34 four-year institutions from across the country. This year students were asked to propose plans to redevelop an existing 32-acre, \$45.8 million site in Decatur, Georgia. Eric Bet, a CM senior, won an Outstanding Student Award, which

recognizes student NAHB members for their work in the chapter and/or local Home Builders Association. Students are evaluated on their academic standing, level of involvement with their student chapter, and interest in pursuing a residential building career. One student per chapter is eligible for nomination. ■



HOLLAND CONSTRUCTION, INC



CATCHING UP WITH ALUMNI

FORMER CLASSMATES RELATE NEWS ABOUT WORK, FAMILY AND JUST HAVING FUN

Listings are chronological by graduation year.

HE BUILDS NEIGHBORHOODS

Todd S. Cunningham (Construction Engineering, '75; MBA, '76) is co-founder and principal of Woodbridge Pacific Group (WPG), created in 1994. WPG recently introduced the first three neighborhoods at its Belcourt Community, a master-planned village in Seven Oaks



Todd Cunningham

in Bakersfield. Belcourt will ultimately include 800 homes with trails, parks, a recreation center and amphitheater.

WPG recently earned the national award for Best Single Family Residential Development (SKYE in Palm Springs) at the 2017 Pacific Coast Builders Conference.

At WPG, Cunningham manages land acquisition, community planning, housing product design, and project planning and oversees all construction, marketing, merchandising and sales functions. He has been an executive and owner in the residential land and development industry for more than 40 years and has in-depth experience in all aspects of the business, having developed over 3,000 single family homes in Southern and Central California.

Cunningham and his wife, Jody, have five children. Their son **Steven** is a 2010 Cal Poly construction management graduate, and their daughter **Carlye** is a construction management senior at Cal Poly.

FULFILLED BY DESIGN-BUILD

Peter Loeb (Construction Management, '92) has worked for "top-shelf" general contractors and real estate developers since graduation. Now a project executive and limited partner with Charles Pankow Builders, Loeb "led the pursuit, won

Peter Loeb (above) is a project executive and limited partner at Charles Pankow Builders.

and managed the highly successful \$128 million design-build Zev Yaroslavsky Family Support Center" in Van Nuys, California. He writes, "The successful practice of design-build — the way Charles Pankow Builders leads it — requires the interdisciplinary collaboration that all students learn at Cal Poly. It was an incredibly fulfilling project ... the team interacted well at all levels, and the team's 14-plus awards are proof of that effort."

At Pankow, Loeb leads the team that is building a \$180 million ultra-high-end boutique hotel on the Sunset Strip and managing preconstruction on new office buildings and upcoming high-rise residential towers. He is also pursuing a major public-private partnership and developing new work and clients for the company.

He and his wife, alumna **Shona (nee Gottlieb)**, (Psychology and Human Development, '94) have two children, Miya, 18, and Myer, 14.



Aaryn Abbott



Ryan Adams



Stephen Griggs



Gil Bastidas



Scott Merson



Matt Reddell

ALUMNI HIRING ALUMNI

Grant Robbins (Construction Management, '94) and **Shawn Reed** (Construction Management, '92) founded Robbins|Reed Inc., a contracting and real estate development firm in San Luis Obispo, in 2007.

Robbins and Reed followed very similar career paths after graduating Cal Poly. They both started their careers at Whiting-Turner, headed back to the Central Coast to work at Centex Homes, then opened their own company, Robbins|Reed, considered one of the premier builders on the Central Coast.

Robbins is a longtime member of the San Luis Obispo Chamber of Commerce. Reed leads Habitat for Humanity San Luis Obispo and serves



on the Construction Management Department's Advisory Council. He is also a board member of the Home Builders Association of the Central Coast.

The partners have hired numerous Cal Poly CM graduates over the years, including partner **Aaryn Abbott** ('06), vice president; **Ryan Adams** ('06), director of custom homes; **Stephen Griggs** ('00), project manager; **Gil Bastidas** ('12), construction manager; **Scott Merson** ('05), project manager; **Matt Reddell** ('11), accountant; and the company's latest hire, **Jeff Hadley** ('16) project engineer.

Locally the company is working on a 16-unit apartment complex at Alder Creek in Paso Robles and Cava Robles RV Resort, an 80-acre hospitality project that will house 300 motor coach sites and a banquet facility; Pacific Courtyards, featuring commercial and residential space in downtown San Luis Obispo; Central Coast Brewing; 22 Chorro, a student housing project near Cal Poly; and the West Creek community of 67 single-housing units and 105 multi-family condominiums in San Luis Obispo.

Robbins|Reed founders Grant Robbins (above, foreground) and Shawn Reed collaborate.

A YOUTHFUL FOCUS

Luis D'Carpio (Construction Management, '96) is vice president of facilities and



Luis D'Carpio

sustainability for the YMCA of San Diego County, the longest-running organization serving youth and family in the county.

The YMCA is focused on youth development, healthy living and social responsibility

"because nurturing the potential of kids, helping people live healthier and supporting our neighbors are fundamental to strengthening our communities," states the agency's website.

As the facilities and sustainability executive, D'Carpio represents the association's interest as a member of the Executive Leadership Team. This

includes providing strategic leadership and corporate oversight of the association's real estate portfolio in San Diego County through involvement in site acquisition, design/construction, environmental health and safety, maintenance/operations, and sustainability related programs/initiatives. The portfolio consists of 17 branches, three camps and other owned/leased facilities.

IT'S A TEXAS-SIZE LIFE

Gregory Scarcell (Construction Management, '00) has been a project manager for TX-Morrow Construction Inc.



in Houston, Texas, since January 2007. He has been married for five years and has a 5-year-old son, Ayden. "We have a beautiful home with a tropical-themed pool, outdoor kitchen and landscaped backyard that we designed and built," Scarcell writes. "I have been playing tennis every week since 2005 and belong to the U.S. Tennis Association, competing in local tournaments. I shoot sporting clays, and I'm studying for the PMP (Project Management Professional) certification. I recruit student interns from the construction management program at Texas A&M, College Station, for the company I work for. I have traveled several times to Southeast Asia and New Zealand and throughout the U.S. I very much miss the California character, lifestyle, weather and activities!"

Scarcell is working on his master of construction management degree at the University of Houston. He recently worked on The Venue Spring Plaza (www.thevenuespringplaza.com), a \$31 million project consisting of 340 apartment units on four levels. It was completed in 18 months on 15 acres in Spring, Texas, 30 miles north of Houston.

Scarcell advises students, "Don't be in a rush to have a project management title. Instead, spend time in the field learning how a project is built from the ground up. Ask the superintendents and subcontractors lots of questions, and be a sponge — soak up the practical field knowledge. In that way, your duties and responsibilities as a project manager will be much easier to execute.

"Furthermore, the soft skills of effective interpersonal communication and being a leader people want to follow is often more important than being a construction technology expert."

ENJOYING RUGBY-WORK MIX

Taylor Manavian (Construction Management, '07) has been a project manager at Morley Builders, a leading Southern California general contracting firm, since 2007.

Shortly after graduating, Manavian moved to Hermosa Beach, California, where he continued to play rugby, a sport he played for five years at Cal Poly. He plays with the Santa Monica Rugby Club every Saturday during fall and winter seasons.



Taylor Manavian and the first phase of the Herb Alpert Educational Village. Manavian has led such challenging projects as NBC Universal's Super Silly Fun Land, High Place East Affordable Housing and the USC Tennis Stadium renovation.

He also was responsible for building one of Morley's most valued properties, its own sustainable equipment yard in Montebello. He worked directly with Morley's CEO at the time to develop a quality product for the company as a main gathering hub for quarterly company meetings and equipment storage facility.

Manavian is managing the Santa Monica Proper Hotel project, a combination of new construction and historic renovation that will include 271 hotel rooms, 13,000 square feet of new retail and restaurant spaces, four levels of subterranean parking, a lobby and rooftop bar and 6,000 square feet of meeting and fitness facilities.

ENGINEERING ON HIGH

Arielle (nee McKee) Asher (Construction Management, '12) joined Morley Builders in 2012 as a project engineer on the affordable housing project High Place East. Located in Santa Monica, the



Arielle Asher

project included construction of a 64,316-square-foot building with 44 units.

Asher was quickly promoted to senior project engineer and is responsible for coordinating with the design team

and managing subcontractors. She most recently completed the Water Garden transformation, a complex interior and exterior renovation in an occupied building. Morley was responsible for the upgraded lobbies, restrooms, elevators and the exterior courtyard's transformation of a lake into a paseo.

Asher's most current projects include an adaptive-reuse of the former PaperMate factory, now the Pen Factory in Santa Monica, designed by renowned architecture firm SOM, and The Trust Building, an 11-story art deco structure in the historic core of Los Angeles. When complete, the two projects will provide more than 500,000 square feet of creative office space.

SEND US YOUR NEWS!

Want to update your former classmates and professors about what you've been doing? Send your news to Jenay Reynolds-Sibbach at jreyno00@calpoly.edu. For more information, call her at 805-756-6385. ■

COMING UP

MARK YOUR CALENDAR
FOR GOLF, HOMECOMING,
OPEN HOUSE AND MORE

2017

OCT. 20-22

Mustang Family Weekend
<http://mustangfamilyweekend.calpoly.edu/>

OCT. 26

Semi-Annual Construction Management (CM) Job Fair

NOV. 2-5

Homecoming and Construction Management Tailgate

NOV. 3

Construction Management Advisory Committee (CMAC) Meeting and Sigma Lambda Chi Honor Society Induction Ceremony, San Luis Obispo, California

NOV. 8-10

U.S. Green Building Council International Conference, Boston — www.greenbuildexpo.com

Design-Build Institute of America Annual Conference and Expo, Philadelphia — www.dbia.org/conferences

DEC. 9

Fall Commencement

2018

JAN. 9-11

National Association of Home Builders Competition, Orlando, Florida — www.buildersshow.com

JAN. 31

Semi-Annual Construction Management Job Fair

FEB. 7-10

Associated Schools of Construction Competition, Sparks, Nevada — <http://asc67.org/>

APRIL 12-14

Cal Poly Open House

APRIL 18-21

Associated Schools of Construction International Faculty Conference, Minneapolis

JUNE 8

Construction Management Scholarship and Awards Reception

Construction Management Spring Banquet

JUNE 9

Construction Management Golf Tournament

JUNE 16-17

Spring Commencement

Visit www.construction.calpoly.edu for the latest information on alumni gatherings and events.

Left: CM alumnus Tyler Peinado ('16)

PHOTO BY BRIGETTE OLMOS-ARREOLA

BUILT FROM THE GROUND UP

THE **WOMEN IN CONSTRUCTION CLUB** HAS GROWN QUICKLY, OFFERING A MENTORING NETWORK AND CAREER ADVICE TO ITS MEMBERS

On Valentine's Day 2017 some new Cal Poly connections were made, although they weren't the type usually associated with that special day of romance. The day was special though, to about 30 students who attended the first official meeting of the Cal Poly Women in Construction (CPWIC) club — an idea that had been in the making for more than a year.

The club, created and advised by construction management Lecturer Stacy Kolegraff, is dedicated to empowering women through mentorship, networking, youth outreach and industry support, including scholarships.

"I had been thinking about forming the club for about a year and a half," Kolegraff said. "Some students approached me about it, and I got the balling rolling fall quarter 2016. We had to get the club leadership and faculty advisor in place and establish the bylaws and a mission statement."

Kolegraff had some help. "As far as getting the club sanctioned, we all tried to do our part," said Morghan Heim, a second-year CM major who served as the club's first co-president with Savannah Gauna. "We had a lot of support from the department, industry partners, friends and supporters."

The club is focused on networking with campus groups and industry partners.



Faculty member Stacy Kolegraff started the club.

"We are seeking mentors — Big Sister / Little Sister-type relationships in the CM Department and industry," Kolegraff said. "We want to find mentors who can share their experiences and be an open point of contact and support for students."

The club is open to all students on campus who are interested in construction. Initial membership comprises mostly construction management women students with a few men supporters, plus a sociology major, a psychology major, and a civil engineering major.

The club also aims to bolster people's understanding of construction management. "We are reaching out to young girls —

elementary, middle and high school girls," Kolegraff said. "We want people to understand construction management is not just swingin' a hammer. A large percentage of our women students transfer from other majors such as architecture and architectural engineering because they didn't know CM existed. We want to gain more exposure for the program."

Heim was interested in the club from the start. "I've been involved with a number of clubs on campus," she said. "I was kind of surprised there wasn't already a club geared toward women. The number of women in CM has grown, so being able to come together as a group to network and mentor has been great."

Women in Construction meets every other week; board members meet weekly. It is not part of a national organization. Kolegraff thinks that only a handful of other universities have similar clubs, but she'd like to see that number grow. "I'd like to see clubs at many other universities so that we could expand our networking capabilities nationwide," she said.

The club is seeking sponsors and supporters to fund scholarships. "We'd like to identify the top five women students in the program and help support them," Kolegraff said. This year, thanks to the generosity of industry partners, CPWIC



awarded \$500 scholarships to two Cal Poly CM majors. Allyson Forster was recognized as the club member with the highest grade point average. Heim received the second scholarship in a raffle held during the end-of-year banquet.

The club's focus in the fall will be on increasing membership and job search efforts. "We want to establish a personal brand and find mentors," Heim said. "We want to be more career oriented."

Kolegraff added, "While women graduates don't necessarily face obstacles in landing jobs, some women face hurdles when negotiating the terms of their employment. The companies that want to hire women will come to Cal Poly."

"The women are getting hired because they're talented," continued Kolegraff. "They also bring a diverse perspective

MEET CLUB OFFICERS AND CONSIDER BEING A MENTOR OR SPONSOR

The Cal Poly Women in Construction 2017-18 club officers — all construction management majors — are: Morghan Heim and Savannah Gauna (Construction Management, '17), co-presidents; Ashley Garber, vice president; Kristen Forster, secretary; and Sarah De Los Reyes, treasurer.

The club is looking for mentors and sponsors. Anyone interested in supporting the CPWIC is invited to contact the club at cpwomeninconstruction@gmail.com.

Club officers (above, from left) are Savannah Gauna, Morghan Heim, Kristen Forster, Sarah De Los Reyes and Ashley Garber.

and background to the industry. The club will open up opportunities for women in our program."

The hope is that someday women will be completely equal with men in the field.

"Construction management is 10 percent building; 90 percent planning and logistics," Kolegraff said. "It takes multitasking, and women are uniquely qualified for that!" ■



HARD-HATTED WOMEN AT WORK



CONSTRUCTION MANAGEMENT ALUMNAE SHARE THE GOOD, THE BAD AND THE UGLY ABOUT THEIR CAREERS IN THE INDUSTRY

Cal Poly's Construction Management (CM) Department welcomed 26 incoming women students, representing about 24 percent of the department's fall 2017 incoming class. The department has witnessed a steady increase in the number of women students over the years, putting more women in the workforce. In the following pages, some alumnae talk about what it's like in the field.

Tami Couchee works with superintendents Jim Culberson (left) and Bill Lawrence on a three-story classroom building project at Cupertino High School in Cupertino.

TAMI COUCHEE

Tami Couchee ('15) has been a project engineer for Blach Construction in San Jose, California, for two years.

In your position, do you feel you are treated any differently because you are a woman?

TC: Sometimes I feel certain questions are directed at me because I am a woman. Recently an operator asked me, "How'd you get that job?" It's not necessarily a positive or negative question; I think a woman walking through a jobsite is noticed more (than a man).

How did Cal Poly prepare you for your career?

TC: By preparing me to work with groups of people. The long classes, the group projects, the dynamic of the CM Department prepared me for the teamwork that is required to be successful in this industry.

Is this a good profession for women?

TC: As a project engineer/project manager, I think it's a great profession. Women have made a mark in this industry, and from what I see, get respect from most everyone.

What is your ultimate goal, professionally?

TC: At this point I do not have an "ultimate" goal. I'm still learning what I enjoy and what I don't. I would love to still be working in construction and make my way up in the company I'm working for. But it's too soon in my career to say what the end goal is. I have more learning to do.

What advice would you give current women CM students?

TC: Be confident in what you know, but don't be afraid to ask questions when you need help.

KAITLIN MURCHISON

Kaitlin Murchison ('07) is vice president of construction and development for Heller Pacific Inc. a commercial real estate developer in Sacramento. She's been there for a year and a half, after eight and half years at DPR Construction in the Bay Area.

On the job, do you feel you're treated any differently because you're a woman?

KM: When I started out over 10 years ago, it felt a little more like a "good old boys" club, but I can't say I've been treated negatively. If anything, I feel I have been supported and encouraged more by those around me.

What if anything has changed in your profession – relative to women?

KM: There is a lot 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, which I hope will continue.

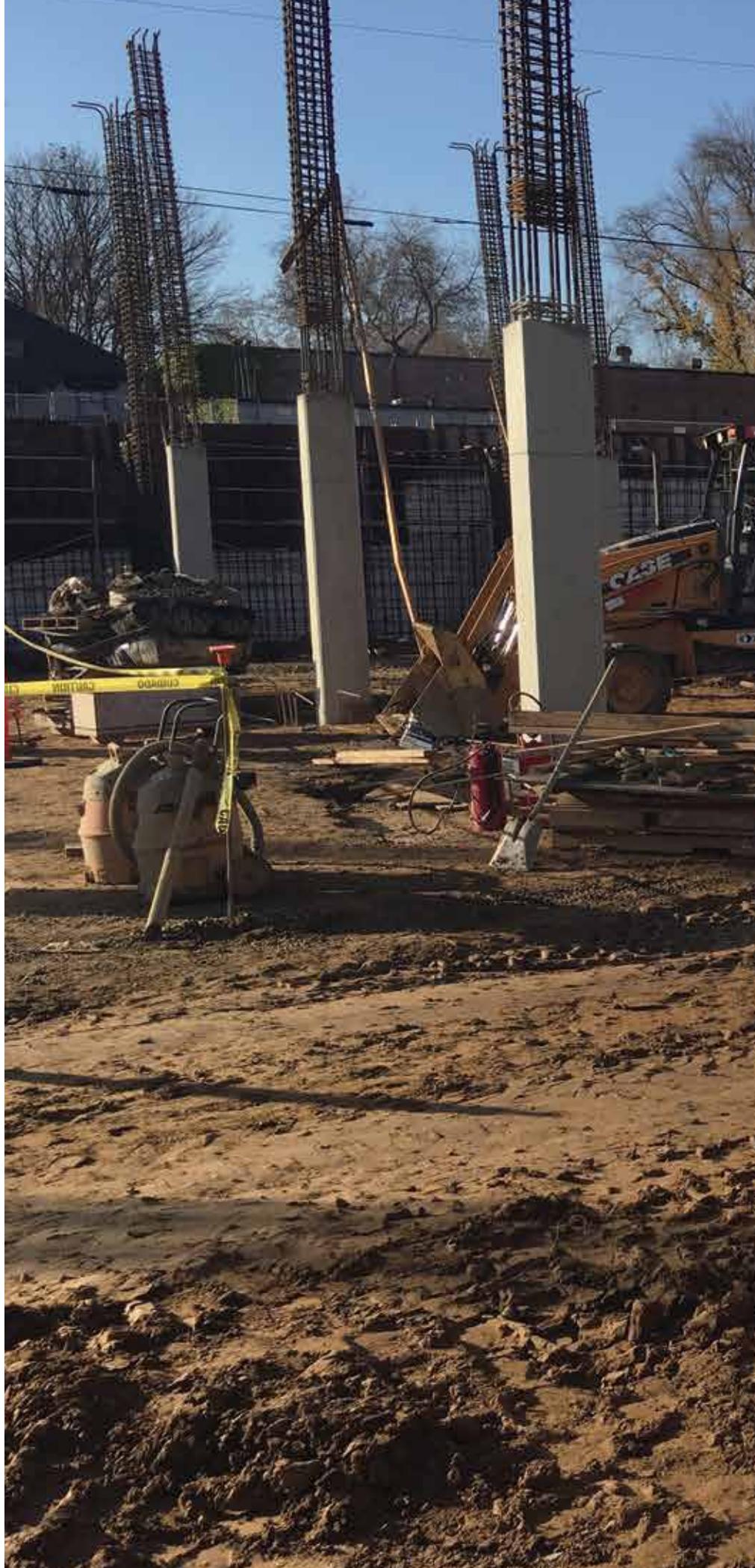
What do you see as your greatest challenges?

KM: Staying calm and open-minded in trying situations, especially ones involving different personalities and priorities.

How did Cal Poly prepare you for your career?

KM: Let me count the ways: the faculty was so supportive; the practical and hands-on approach to our education; the involvement in industry events and depth of outreach to companies; the emphasis on obtaining experience through internships; 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.

Kaitlin Murchison works at the Ice Blocks job site in Sacramento.





LEYLA NAIMI

After five years at Morley Builders, Leyla Naimi ('10) recently moved from Los Angeles to the Bay Area to work for DPR as a senior project engineer. She earned a master's degree in civil and environmental engineering from Stanford University in 2017.

On the job, do you feel you are treated any differently because you are a woman?

LN: Generally, I've had to work harder to prove myself because people are more likely to question my abilities. Ultimately this has made me better at my profession. My peers and the companies I've worked with have been incredibly supportive.

Do you see any differences in the ways men approach their jobs vs. the ways women approach theirs?

LN: I believe generalizing or identifying differences is dangerous. Preconceived opinions limit one's ability to see a person's strengths and abilities independent from gender. Doing so can harm both women and men.

What if anything has changed in your profession over the years — relative to women?

LN: The greatest change since 2006 has been the increase in women in the field and the growing belief that this is a career choice for women. When I started Cal Poly, I was one of two women in the classroom. When I entered Stanford 10 years later, women were in the slight majority. These changes in the classroom are also reflected in the workplace. I recently was in a meeting where all representatives were women, and we all felt that even though we weren't seeking for this to be the new normal, it was nice to finally have instances like this occur in our industry.

How did Cal Poly prepare you for your career?

LN: Cal Poly supported my passion. By tackling new experiences, working on group projects, leading student organizations, participating in student competitions, and networking with industry executives at conferences, I learned that I could take on — and excel at — the unknown.



"Cal Poly supported my passion," says Leyla Naimi about how her experiences prepared her for her career.

TORRIE PETH

Torrie Peth ('16) works as a project engineer for The Hanover Company in San Diego, California. She's been there one year.

Do you see any differences in the ways men approach their jobs vs. the ways women approach theirs?

TP: Genetically our thought processes and emotions are different. That's why it's important for females to get involved in fields that men dominate. We bring a fresh perspective.

What do you like best about your work?

TP: Problem-solving, which is also my least favorite part. Some of the problems project managers and superintendents solve are the most frustrating, but when you reach the solution, it's the most gratifying. Sometimes our days are long, strenuous and totally not fun, but when you look at a building or a bridge, a tunnel or a house and know you built it, it's worth it.

How did Cal Poly prepare you for your career?

TP: The people I met and the opportunities I had are what ultimately prepared me for my career. I had internship and job interviews literally handed to me because Cal Poly CM graduates are so highly sought after. College can teach you how to write and do math, but at the end of the day, the people and leadership skills are the imperative ones to develop.

Where do you see yourself in 10 years?

TP: I don't know who I'll be working for or where I'll be living or what my job title will be — because I don't want to box myself into a vision. I want to look back and know that I jumped at every single opportunity presented to me. Every person you meet, every single day, could somehow lead you to the next big thing if you keep an open mind.

What advice would you give current women CM students?

TP: If you think you're at a disadvantage because you're a woman, you will be. If



you think you should be treated differently because you're a woman, you will be. If you think you're going to fail because you're a woman, you will. Think of yourself as an equal, and you'll be treated as such.

Torrie Peth's current project is the Hanover Mission Gorge in San Diego.

EMILY POOL

Emily Pool ('12) is a cost engineer working a rotational role in the Cost Department of a multibillion dollar U.S. construction company. She's been with the company since 2012.

What does your typical day look like?

EP: I prepare financial analyses, report current costs and forecast financial outcomes on projects. I evaluate risks and make recommendations based on company policy and the project's contractual rights. Every month I work on up to 10 projects, from pre-construction through financial closeout, with budgets ranging from \$2 million to \$152 million.

On the job, do you feel you are treated any differently because you are a woman?

EP: In certain roles, being a female has allowed me to better handle situations, people or teams than my male counterparts. There are times when people and circumstances are not receptive to me being

a woman. Some of my best experiences have been working with the "know-it-all" men who have been doing this since they were kids helping their dads. Some of these men have addressed me as scribe, their wife or sweetheart. After being corrected and working together, they are my best advocates and mentors.

What if anything has changed in your profession — relative to women?

EP: There are more women moving into higher, more visible positions. There are more advocates helping women grow and rise in the industry. Owners and clients have begun to recognize the benefits of diverse teams.

Do you think more women will be entering the field?

EP: While conditions are difficult for women in the field, a huge breakthrough occurred in April 2017 for women in the

trades. The Ironworker's Union began providing paid maternity leave, which sparked interest and movement by other unions. Paid maternity leave is a big step, because no woman should have to choose work over having a family.

Do you think women are well-suited for the job?

EP: As leaders, women rule! We are great at raising people up and getting them to be great. I strongly feel women are well-suited to handle the dynamics of construction. The women I work with prove every day that women are equally or better suited than men to serve in managerial positions in construction.

What are your greatest challenges?

EP: Communication. One of my favorite aspects of this business is also one of my greatest challenges. Clear communication that others are receptive to is simple in concept, but many factors impact the ability to get a message across. Communication is impacted by a variety of things. The most common I run into are physical barriers, status/rank, gender-bias, culture, use of language and body language.

Is this a good profession for women?

EP: 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.

What advice would you give current women CM students?

EP: As you continue through your career, find someone who can coach you, someone who wants to advocate for you. Those people will help get you where you are going and be there for you. Remember that 90 percent of your message to others is in your image and exposure; be confident and present.

"As leaders, women rule!" says Emily Pool.





KATIE WORDEN

Katie Worden ('13) has been working for Sundt Construction for two years — first as a project engineer and now as an estimator in the Bay Area.

What attracted you to the construction management field?

KW: I love watching how things go together, and being part of something that will be standing for more than 40 years is definitely rewarding.

Do you think women are well-suited for the job?

KW: From a management standpoint, I think men and women are equal, but in general, they have different skillsets. 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. If there's a good balance of men and women, it will be a successful project.

What is the best part of your work?

KW: The project is different every day. One day I can be figuring out a scheduling issue and the next, I could be working on RFIs (requests for information).

What do you see as your greatest challenges?

KW: Not getting too emotionally attached and not letting anyone see me frustrated. When something goes wrong, tension and emotions run high. The best thing is to try to keep calm, step back and figure out a solution as a team.

Do you see any differences in the ways men approach their jobs vs. the ways women approach theirs?

KW: As a general observation, the women in this field tend to be more detail oriented. But that can work against women, if they get too attached. I know I can get wrapped up on something really small, even if it doesn't have a huge impact on the project.

Do you think more women will be entering the field?

KW: I hope so! People think that construction only consists of hard labor; therefore, women couldn't or shouldn't be involved. Construction is so much more than that; everyone has their part in contributing to a successful project.

Katie Worden participated in Sundt Construction's demolition of Ohlone College in the Bay Area (above).

Where do you see yourself in 10 or 20 years?

KW: Perhaps going back to school for my doctorate; maybe becoming a professor and encouraging others in their pursuit in construction.

Is this a good profession for women?

KW: I think it's great 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.

What advice would you give current women CM students?

KW: I don't always have control of what happens in my life, but when something doesn't go as planned and I get upset, I repeat something I have lived by since I was 14: "Breathe in, breathe out, move on." ■



Just Rewards

CONGRATULATIONS TO OUR 2017-18 SCHOLARSHIP RECIPIENTS

Construction management (CM) students received nearly \$90,000 in scholarships at the department's annual Spring Social, held at Cypress Ridge Golf Course in Arroyo Grande, California. Department Head Al Hauck and Christine Theodoropoulos, dean of the College of Architecture and Environmental Design, announced the scholarship recipients, the senior award winners and the winning team members of the year's competitions.

American Society of Professional Estimators (ASPE) Chapter 55 Scholarship
\$2,000 each: Alfredo Aragon, Brooke DePorto, Tanner Frkovich, Matthew Montijo, Austin Stewart

Above: Austin Stewart receives the ASPE 55 Scholarship from Kevin Fennimore of KF Inc. (left) and Alan Jacobs of Blach Construction.

Allen and Nancy Minton Scholarship
\$23,000: Lorcan Yeung

Robin L. Rossi Scholarship
\$1,500 each: Leor Rozen, Sherry Saroufeem

Beavers Heavy Construction Scholarship
\$3,200 each: Sarah De Los Reyes, Austin Eberle, John Theofanides

William Cosko & James Hearn Scholarship
\$1,000 each: Adriana Bernabe Martinez, Joseph Lynam, Collin Martin, Steelee Morgan, Willie Quiros

Don Tanklage Scholarship
\$5,000 each: Trevor Nally, Sherry Saroufeem

Kris Cello Scholarship
\$1,500: Donald Wong

Blair Tulloch Memorial Scholarship
\$3,000 each: Arlen Hartoonian, Maggie Lai, Jeremy Suryadi

Don Chapin Company Scholarship
\$4,200: John Pezzini

Fluor Corp. Scholarship
\$950 each: Arlen Hartoonian, Trevor Nally

Vinnell Foundation Scholarship
\$900: Carlos Espitia

Herbert E. Collins Scholarship
\$1,500 each: Alfredo Aragon, John Theofanides, Donald Wong

The Mechanical Contracting Education & Research Foundation (MCERF) Scholarship
\$1,700 each: Joshua Heath, Jesseka Zappe;
\$1,600: Joe Lofaso

Western Construction Group Scholarship
\$950: Maggie Lai

Outstanding Seniors

CELEBRATING THE ACHIEVEMENTS OF SEVEN FROM THE CLASS OF 2017

Marlo Castro (Construction Management, '17), winner of the 2017 Construction Management Outstanding Leadership Award, earned the nickname 'Momlo' during her senior year because she was always ready to help her fellow students.

"In the computer lab, I always had an extra phone charger, snack or Scantron," she said. "I was happy to help anyone plan their schedule for the next quarter."

When Castro heard she had won the leadership award, she was "surprised and humbled."

Castro served as vice president of the newly revived Associated General Contractors (AGC) student chapter. "We were able to give the club life again. We traveled to Monterey, California, for the annual state conference and to Las Vegas for the annual national conference," she said.

She was captain of the Project Management Team for the 2017 Associated Schools of Construction Region 6 and 7 competition. Although they didn't place, Castro feels the experience was worth it. "We learned a lot of valuable lessons. I'm excited to see how the team performs next year," she said.

Castro was especially appreciative of the faculty's commitment to student success. "The hands-on curriculum and dedicated faculty give students the tools they need to become hardworking interns and successful industry members," she said.

She urges students "to focus on one or two opportunities and try to make an impact. The more people and connections

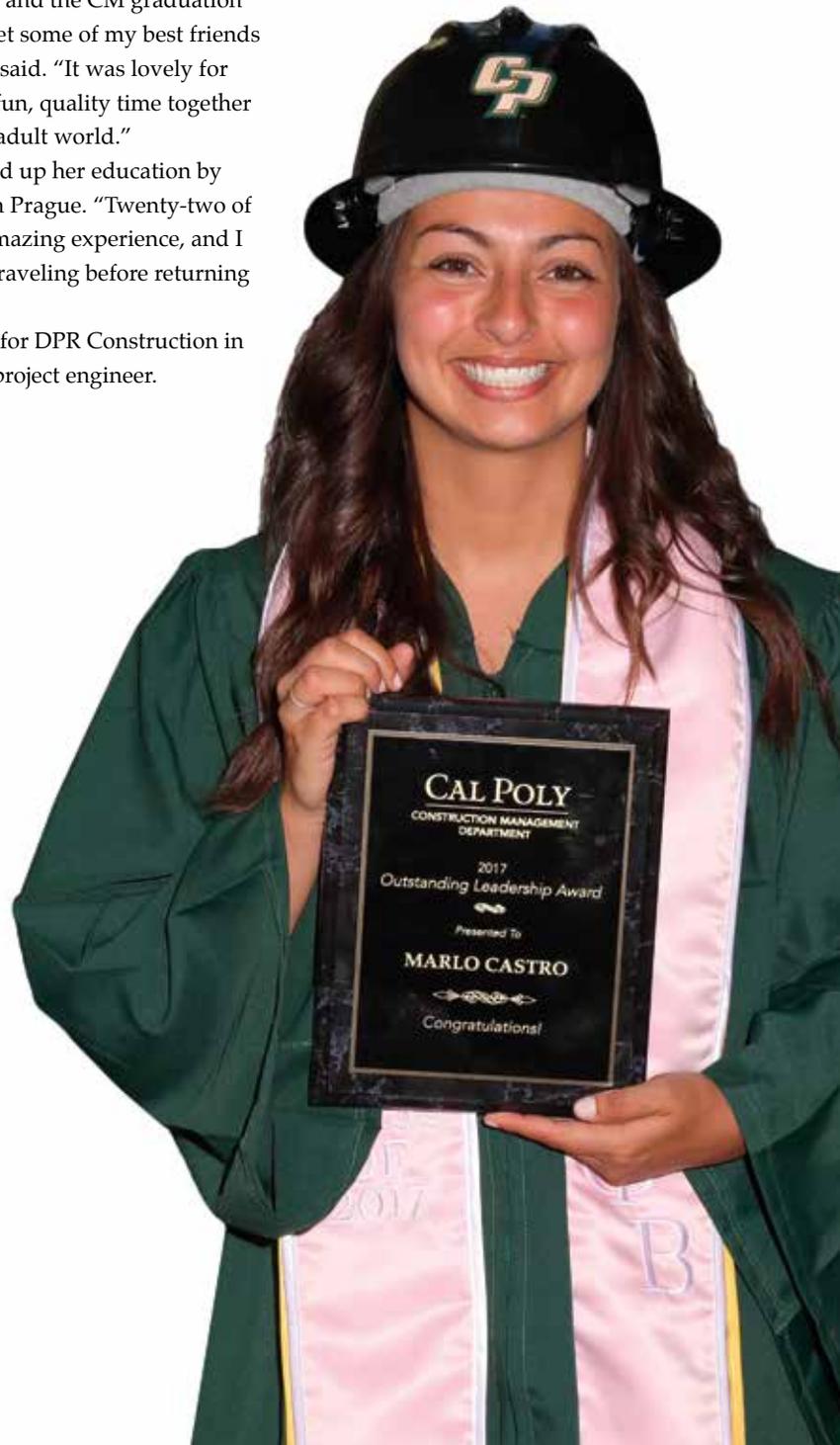
you make, the more potential you have for a prosperous career and life."

She has fond memories of events that happened outside the classroom, including the senior banquet and the CM graduation ceremony. "I've met some of my best friends through CM," she said. "It was lovely for us to spend some fun, quality time together before joining the adult world."

Castro wrapped up her education by studying abroad in Prague. "Twenty-two of us had the most amazing experience, and I spent some time traveling before returning home," she said.

She's working for DPR Construction in the Bay Area as a project engineer.

◀ Marlo Castro OUTSTANDING LEADERSHIP



A.J. Chamorro

▶

ULTIMATE COMPETITOR



Faculty wanted to recognize A. J. Chamorro (Construction Management, '17) for his exceptional accomplishments, but those accomplishments didn't quite fit into any of the standard award categories. So they created a new one: the 2017 Construction Management (CM) Department's Ultimate Competitor Award.

During his time at Cal Poly, Chamorro participated in 10 competitions — more

than any other student. He was a five-time member of the Mechanical Team for the Associated Schools of Construction Region 6 and 7 competition. The four years he served as captain, the team won first, second and third place. "My proudest moment was winning first place," he said. "Tackling the problem for 24 hours in the war room was tough, but getting that trophy made it all worthwhile."

Chamorro also competed five times in the Mechanical Contractors Association of America (MCAA) national competition. "When I was captain, I felt it was my responsibility to not only complete my work, but to also help advance the efforts of the whole team," he said. Under Chamorro's leadership, the MCAA team placed twice in the top 10 among dozens of schools.

"I was proud of our wins, but I was especially proud that my teammates learned and grew and went on to be successful in other ventures," he said.

Chamorro served as president of Cal Poly's MCAA student chapter and worked to help students learn more about the mechanical sector of the industry. "Helping students see the industry's other opportunities and guiding them toward jobs that might be a better fit for them was very rewarding," Chamorro said.

He continued to learn about the mechanical sector by interning every summer for different mechanical firms. "There are differences even within mechanical companies," he said. "I knew my education had to include real-world experience through internships because companies are looking for students who do more than just coursework."

Chamorro is now working at Pribuss Engineering in South San Francisco as an assistant project manager and detailer, managing building information modeling on the subcontractor side of projects.

Trevor Houghton (Construction Management, '17) considered a number of majors before deciding to pursue construction management at Cal Poly.

"The admissions process forced me to do my homework so I could declare a major upon applying," he said. "The CM program fit well with my family background in construction, my engineering mindset, and my interest in design."

Houghton soon found a niche for himself in the program, learning enough about building information modeling (BIM) to help teach BIM classes in the department. "Teaching a class that deals with constantly changing cutting-edge technology is a true challenge. By the time we would finish one quarter, there were five new topics to introduce the next time to keep the class relevant," Houghton said.

Houghton's activities with BIM and virtual design and construction (VDC) technology extended beyond the classroom and helped earn him the Construction Management Department's 2017 Service to the Department Award. He was a member of the VDC Team for the Associated Schools of Construction Region 6 and 7 competition in his junior year, earning a first-place win, and served as captain his senior year.

One of Houghton's proudest accomplishments was expanding the BIM Club to become an interdisciplinary club that all students could benefit from. As president during his senior year, the club expanded from approximately six members to more than 80 and provided students a chance to meet a number of guest speakers who demonstrated the latest technology.

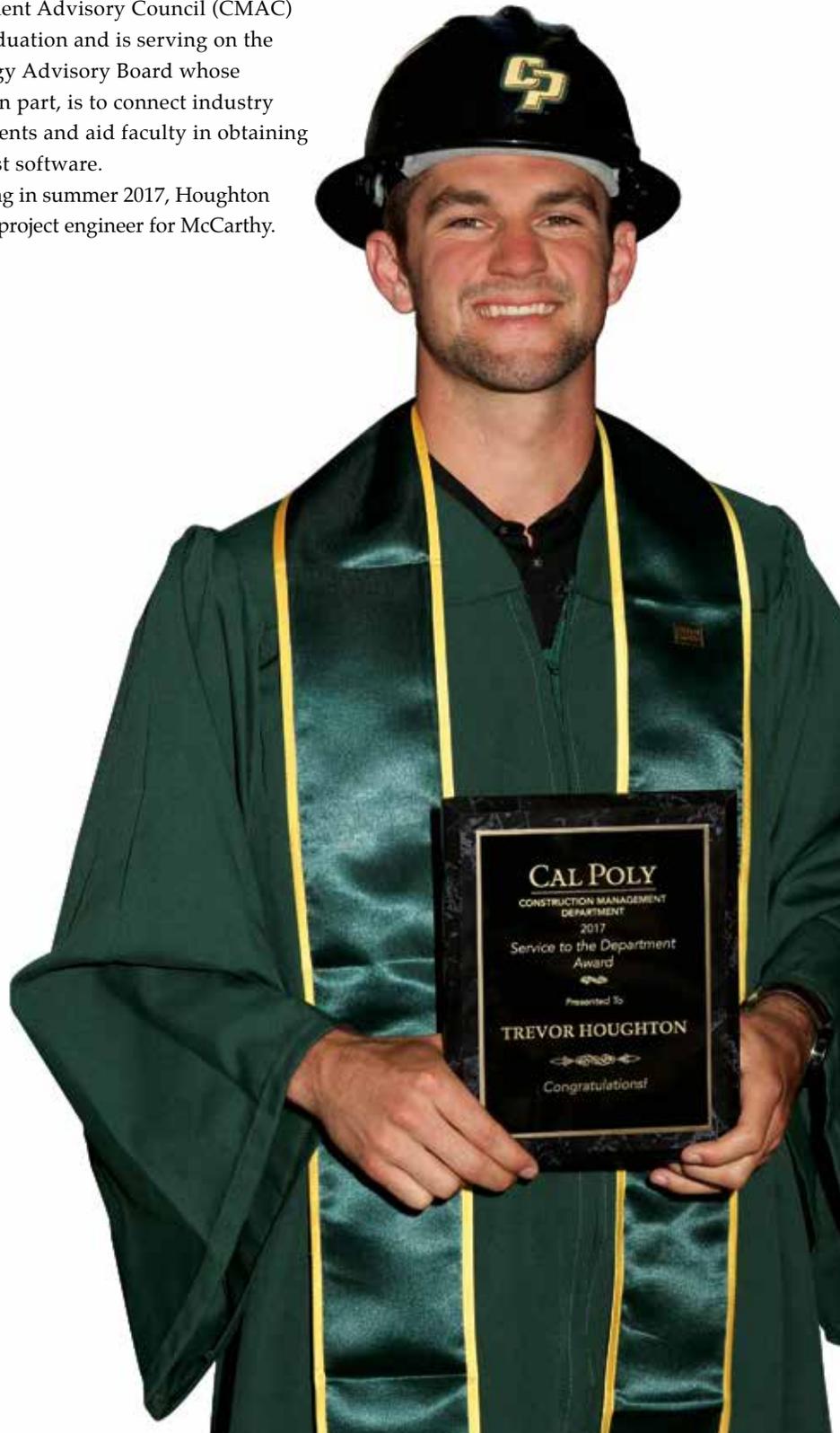
Houghton also appreciated the opportunities to attend conferences, network with industry, and help acquire software licenses. "The latest and most innovative aspects of VDC come from industry, and it

was an important part of my education to become exposed to that and bring back to Cal Poly what I learned," he said.

Houghton joined the Construction Management Advisory Council (CMAC) upon graduation and is serving on the Technology Advisory Board whose mission, in part, is to connect industry with students and aid faculty in obtaining the newest software.

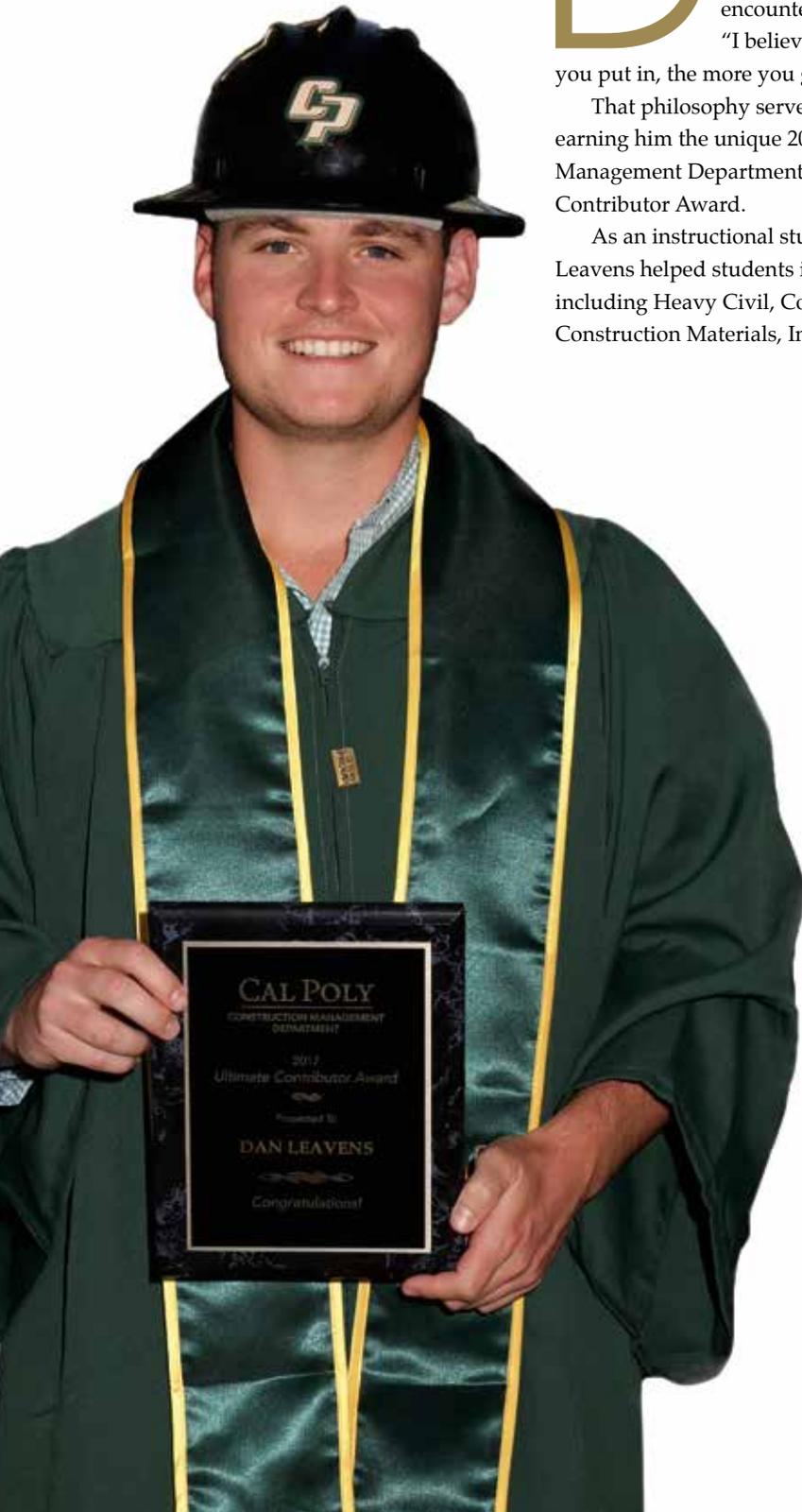
Starting in summer 2017, Houghton became a project engineer for McCarthy.

◀ Trevor Houghton SERVICE TO THE DEPARTMENT



Dan Leavens

▶
ULTIMATE CONTRIBUTOR



Dan Leavens (Construction Management, '17) had a simple approach to the opportunities he encountered at Cal Poly. "I believe the more effort you put in, the more you get out," he said.

That philosophy served him well, earning him the unique 2017 Construction Management Department's Ultimate Contributor Award.

As an instructional student assistant, Leavens helped students in classes, including Heavy Civil, Commercial, Construction Materials, Introduction to

Construction Management, and an elective course for civil engineering majors. "My favorite part of being in the classroom was interacting with students in the labs and helping create teams that would facilitate collaborative learning," he said.

Leavens was on Cal Poly's Heavy Civil Team that competed at the Associated Schools of Construction (ASC) Region 6 and 7 competition in Reno for three years, serving as co-captain and captain. "The highlight was bringing home a first-place win my junior year," he said. "We really came together as a team. We spent six months in preparation, including during the summer, working closely with the problem sponsor. It all came together perfectly."

He was also on the department's second team to compete in the ASC Region 8 International Competition held in London during his senior year. "Schools from five or six countries competed, and we ranked the highest of all the U.S. teams. I learned a lot about construction globally and culturally," he said.

Working with several fellow students, Leavens brought back the student chapter of the Associated General Contractors of America (AGC). "We had the chance to travel to multiple conferences and network on a national level," said Leavens, who raised sponsorships so other students could attend. "You get to meet a lot of people who can help open doors for you professionally."

Leavens believes involvement in a variety of activities is crucial to any student's success. "My advice is to get involved early, get to know the faculty and students, and recognize that there's room for professional growth before you ever leave the program," he said.

Leavens returned to his home state of Oregon in fall 2017 to work for heavy civil company Oregon Mainline Paving as a project engineer.

When Tyler Lee (Construction Management, '17) was researching colleges, Cal Poly knocked all others out of the running. "Department Head Al Hauck told me what the Construction Management (CM) Department had to offer, particularly in terms of the program's connection to industry, the high placement rate, and the project-based learning style," Lee said. "I knew this was the school that was going to help me get a rewarding job that impacts people's lives."

Lee, winner of the department's 2017 Service to the Department Award, made a difference to many even before his graduation. Getting to know the faculty, forming relationships with fellow students, and pitching in when needed came naturally to him. "Helping others is an opportunity we all have, and we should take advantage of it," he said.

Lee served Cal Poly by being on the board of directors of the Associated Students Inc. (ASI) his senior year. The board's elected members are responsible for oversight of ASI's corporate activity. "I learned a lot about business and government. Our job was to manage a multimillion dollar nonprofit in a way that would serve all students and enhance their Cal Poly experiences," he said.

Lee was also a residential advisor — an experience he found challenging and rewarding. "My job was to live in the dorms and help guide students through their first year of college and connect them to such resources as tutoring and counseling," he said. "It's an on-call position, so I didn't get a lot of sleep that year!"

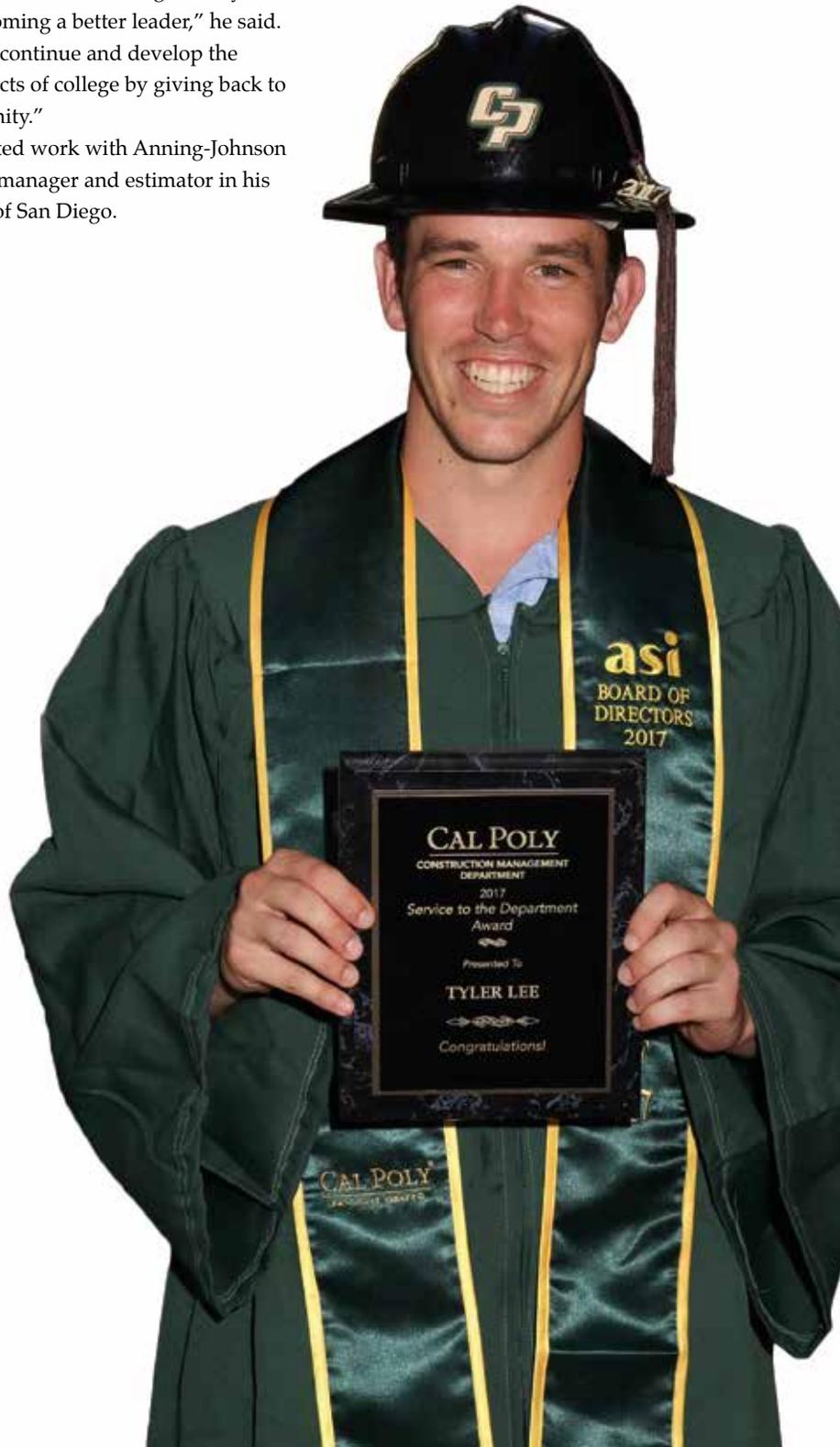
He was a member of Sigma Lambda Chi and was on the Mechanical Team twice at the Associated Schools of Construction Region 6 and 7 competition.

He also competed in the Mechanical Contractors Association of America national competition. "It's a challenge to juggle everything, but my goal was to support everyone where I could and guide myself toward becoming a better leader," he said. "I intend to continue and develop the service aspects of college by giving back to my community."

Lee started work with Anning-Johnson as a project manager and estimator in his hometown of San Diego.

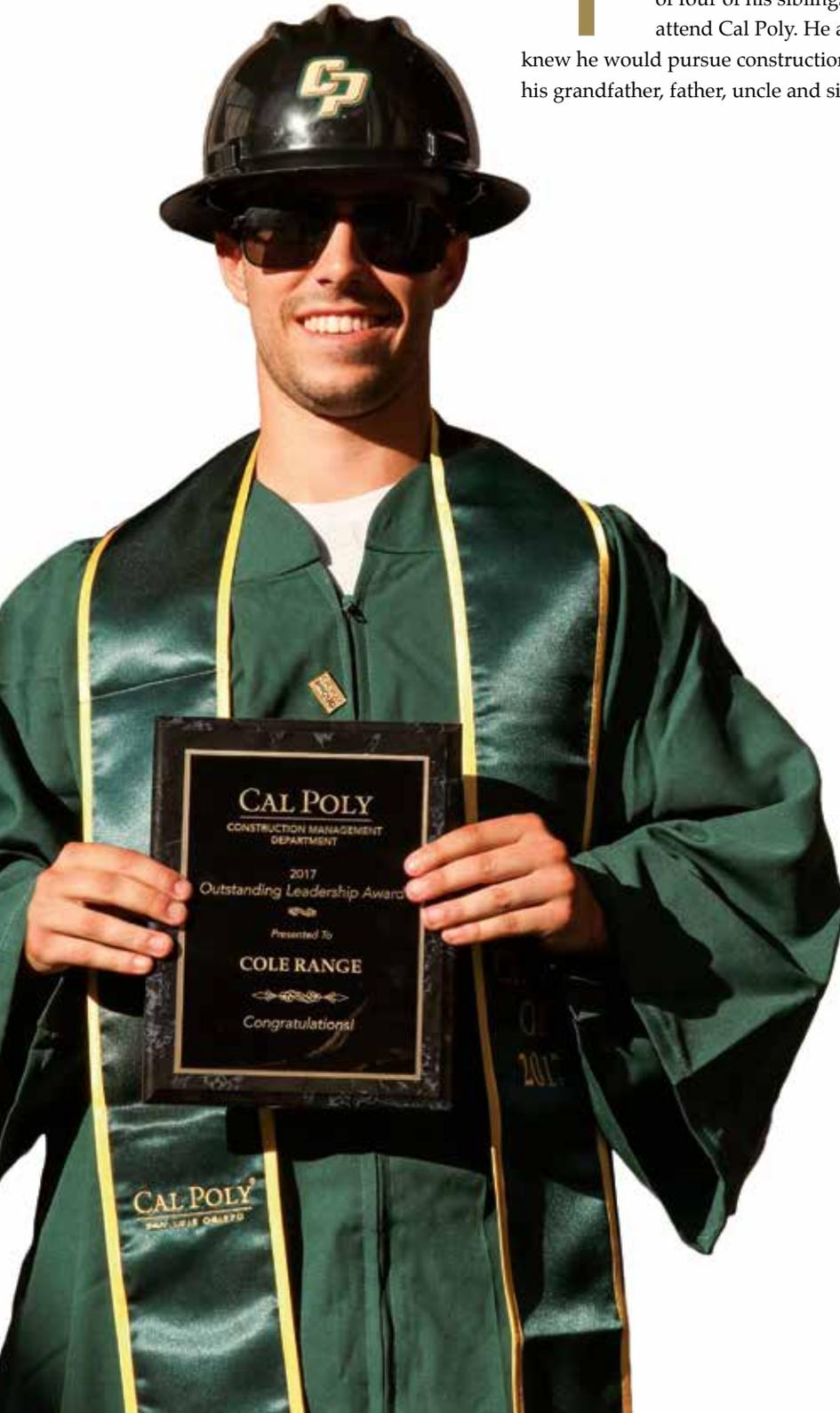
◀ Tyler Lee

SERVICE TO THE DEPARTMENT



Cole Range

OUTSTANDING LEADERSHIP



There was no question that Cole Range (Construction Management, '17) was going to follow in the footsteps of four of his siblings and attend Cal Poly. He also knew he would pursue construction, like his grandfather, father, uncle and sister had

done. "I loved seeing my Dad's projects when I was a kid, and I wanted to leave that legacy as a builder," he said.

Range received the 2017 Construction Management (CM) Outstanding Leadership Award and credits the department's focus on team-building skills with his success. "I know a lot of people could have been given this award," Range said. "I always felt my job as a leader was to be democratic and hear everyone's ideas so that the best ones could be implemented."

Range had ample opportunity to put this leadership philosophy into action as a three-term board member of the Associated Students of Construction Management (ASCM) Club. He served as president his senior year. "Being president is a lot of responsibility. Two things I'm most proud of are coordinating the golf tournament and senior banquet in spring 2017. The last four weeks of planning was like a full-time job!"

For three years, Range was on the Commercial Team for the Associated Schools of Construction Region 6 and 7 competition. "One of my best memories is being co-captain my senior year and bringing home a first-place win out of 15 schools," he said. "I was on the best team that could have possibly been put together, and we managed to get the work done and have fun."

During his senior year, Range took part in the CM study abroad program in Prague. "After the program ended, I went scuba diving in Croatia and ran with the bulls in Pamplona. That was intense, but I'd do it again," he said.

Beyond clubs, teams and classes, Range said the camaraderie in the department is one of the most valuable things about the program. "Everyone in the major is very close, almost like a fraternity, and I've made best friends that I'll have for life," he said.

Range will graduate in December 2017.

Matthew Stephens (Construction Management, '17) is a natural competitor and credits that fact with his remarkable academic accomplishments.

"I've always pushed myself to do the best I can and set the curve," Stephens said. His hard work paid off. Stephens graduated at the top of his class, earning a 3.7 GPA and the Construction Management Department's 2017 Outstanding Senior Award.

Stephens recalled Calculus II as a true challenge. "It was a very difficult class, but I put in the work, asked questions when I needed to, and scored 100 percent on both midterms. That helped me re-adjust my academic expectations and know that with enough work, I could earn all As," he said.

His competitive streak pushed him to not only strive academically, but to also get involved in extracurricular activities. He was on the Concrete Solutions Team at the Associated Schools of Construction Region 6 and 7 competition all four years, earning second place twice and third place twice.

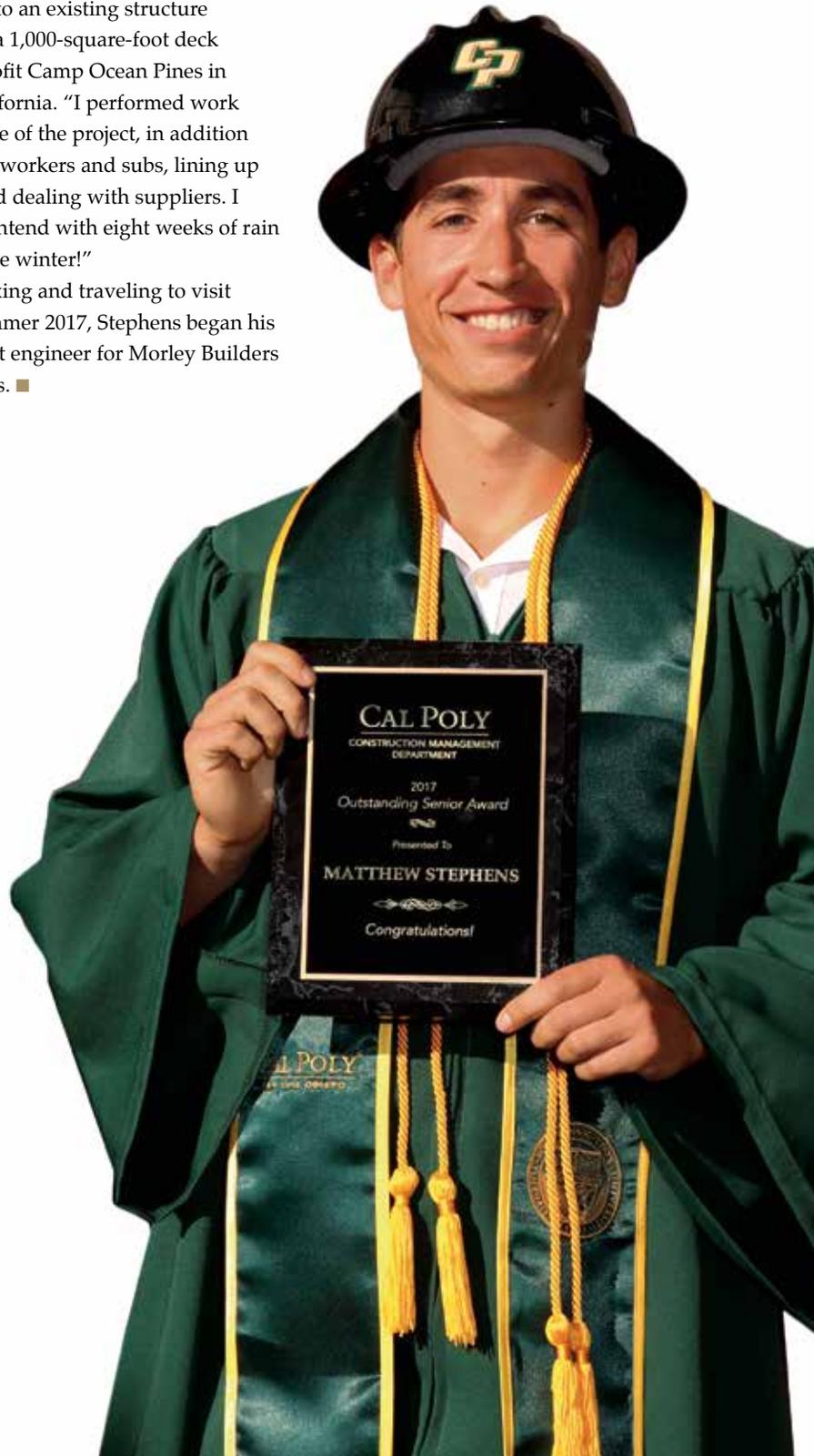
Stephens served as vice president of the Sigma Lambda Chi construction management honor society and as a member of the College of Architecture and Environmental Design Ambassadors program for four years. "I wanted to meet new and prospective students to tell them all that Cal Poly has to offer," he said.

Stephens completed four internships, the first of which started the summer before his freshman year. "I took full advantage of the opportunities to meet with industry members at the CM Department Info Sessions," he said. "It's important for students to develop their communication skills and start interacting with industry as early as possible."

One of Stephens' proudest accomplishments is his senior project, for which he received the Best Project-Based Senior Project Award. He built a 200-square-foot addition to an existing structure and attached a 1,000-square-foot deck for the nonprofit Camp Ocean Pines in Cambria, California. "I performed work on every phase of the project, in addition to scheduling workers and subs, lining up donations, and dealing with suppliers. I also had to contend with eight weeks of rain delays over the winter!"

After relaxing and traveling to visit friends in summer 2017, Stephens began his job as a project engineer for Morley Builders in Los Angeles. ■

◀ Matthew Stephens OUTSTANDING SENIOR





Phil Barlow



Greg Starzyk



Dan Knight

Making Headlines ▲

FACULTY EARN TOP HONORS IN 2017

PHIL BARLOW NAMED EDUCATOR OF THE YEAR

Professor Philip Barlow (Construction Management, '87) was named 2017 Educator of the Year by the Associated General Contractors (AGC) in recognition of his outstanding work as an educator, mentor to and advisor of students, and as a colleague in the construction industry. AGC was particularly appreciative of his work advising students in the Cal Poly construction management program.

He received a plaque, a cash award of \$5,000, and the opportunity to designate two \$2,500 awards to two Cal Poly construction management students.

GREG STARZYK PICKS UP AN OUTSTANDING EDUCATOR AWARD

Associate Professor Greg Starzyk won the 2017 Outstanding Educator Award from the the Associated Schools of Construction. The award is given annually to a faculty member in recognition of his or her "contribution to construction education, excellence in teaching, service to the Associated Schools of Construction, and dedication to the construction profession."

DAN KNIGHT IS AMONG 20 UNDER 40 BEST AND BRIGHTEST PROFESSIONALS IN COUNTY

Lecturer Dan Knight was named one of 20 under 40 Best and Brightest Leaders by The (San Luis Obispo) Tribune. The list honors the achievements of women and men under the age of 40 in San Luis Obispo County who have demonstrated excellence in their professions and a commitment to community service.

New Faces ►

CONSTRUCTION MANAGEMENT WELCOMES THREE NEW LECTURERS

The Construction Management Department welcomed Ed Boucher, Tom Kommer and Andrew Kline to the faculty this year. Read on to learn a little about these new lecturers.

ED BOUCHER

A Central Coast resident for more than three decades, Ed Boucher traded in his title as senior advising project manager for a large utility to teach the Heavy Civil, Construction Materials and Assemblies, and Commercial Construction courses.

He came on board in January 2017 to help students "develop the skills that will allow them to make positive contributions to the field." He has them solving real-life, day-to-day construction problems, exposing them to the types of challenges they'll confront in their career.

"In construction, there's not a problem that can't be solved," Boucher said. "A crisis is not a situation; a crisis is the manner in which you react."

Boucher's career switch was not entirely altruistic. "The feeling that, just possibly, I have contributed to enhancing an individual's skillset is humbling," he said. "Teaching is not about what you gain; it's about what you contribute. The personal gain is measured by what you give to others.

"The beautiful thing about learning is nobody can take it away from you," he added, quoting guitar legend B.B. King. "I hope students understand they'll leave Cal Poly with the tools they need to identify and solve the problems they'll encounter during their careers."

TOM KOMMER

Tom Kommer didn't have to travel far from his former job to take over teaching duties in the Construction Management Department. Last summer, Kommer was project manager for Cal Poly's yak?it'ut'u project, the first-year residential housing community currently under construction, a job he held as vice president for electrical contractor Tri-Signal.

His professional experience is right on track with the classes he's teaching: Introduction to Construction Management, Management of the Jobsite and Management of the Firm. Teaching seems to be a natural progression for Kommer, who, in his previous job, trained novice project managers.

"I enjoyed the instructional aspects of my former job," he said. "This change in profession allows me to remain relevant



Ed Boucher



Tom Kommer



Andrew Kline

in the construction industry while preparing our youth for rewarding careers in construction.”

As with any new job, learning new systems and getting used to a new schedule can pose challenges, but Kommer’s attitude and desire to help students will serve him well. He aims to leave a positive impact on his students and hopes to instill in them an “overall desire to get out into the working world and see how rewarding the construction industry can be.”

The San Luis Obispo resident hopes to have a positive impact on his students. “I want them to know I care about their future.”

ANDREW KLINE

It wasn’t all that long ago that Andrew Kline (Construction Management ’11) was at Cal Poly, sitting behind a desk in a classroom, soaking up all the knowledge he could from his professors.

Today Kline is at the front of the room, dispensing the practical knowledge he’s gained from industry — most recently as a project manager for Snyder Langston, a general contractor in Irvine, California.

In fall 2017, Kline began teaching two construction management classes: Commercial and Fundamentals of Construction Management.

“I’ve always had a desire to teach the next generation of builders,” he said. “I realized this while mentoring interns and entry-level project engineers when I was still at Snyder Langston.”

In his new role, Kline strives to stay relevant. “I want to ensure that I am teaching the latest and greatest information that is current in the industry,” he said. He also wants students to know there’s more to construction than most people realize.

“Construction is not only about building structures,” he said. “It’s also about building and growing relationships. I want my students to know how important communication and leadership is to their future success.” ■

WORDS OF WISDOM

“I HOPE STUDENTS UNDERSTAND THEY’LL LEAVE CAL POLY WITH THE TOOLS THEY NEED TO IDENTIFY AND SOLVE THE PROBLEMS THEY’LL ENCOUNTER DURING THEIR CAREERS.”

— ED BOUCHER

“THIS CHANGE IN PROFESSION ALLOWS ME TO REMAIN RELEVANT IN THE CONSTRUCTION INDUSTRY WHILE PREPARING OUR YOUTH FOR REWARDING CAREERS IN CONSTRUCTION.”

— TOM KOMMER

“CONSTRUCTION IS NOT ONLY ABOUT BUILDING STRUCTURES. IT’S ALSO ABOUT BUILDING AND GROWING RELATIONSHIPS. I WANT MY STUDENTS TO KNOW HOW IMPORTANT COMMUNICATION AND LEADERSHIP IS TO THEIR FUTURE SUCCESS.”

— ANDREW KLINE



Christine Theodoropoulos

Constructive Zone

HOW YOUR INPUT ENRICHES LEARN BY DOING

Students tell me that they choose Cal Poly's construction management (CM) program because they want rewarding careers where teamwork transforms designs into realities. They stay in CM because of the close-knit, supportive community of students, faculty and staff. I share the department's pride in the long list of competition and recognition awards earned by CM students and faculty. From the extraordinary professionalism of competitors in Sparks, Nevada, to the touching appreciation for one another's achievements at their annual awards banquet, CM students continue to impress.

This past year, the College of Architecture and Environmental Design (CAED) solicited ideas from students, faculty, staff and the members of our advisory councils, including CMAC (Construction Management Advisory Council), to include in our strategic plan. Thank you to all of our alumni and industry friends who participated. Plan highlights include goals to expand student leadership and opportunities for input, creation of a collegewide program of technology tools and methods instruction, and increasing opportunities for shared interdisciplinary experiences. You can find the plan on the CAED website. I welcome your suggestions for how to achieve our goals.

Thank you to our dedicated alumni, industry partners, faculty, staff and students for all you do to advance the mission of the College of Architecture and Environmental Design.

A handwritten signature in black ink, appearing to read 'Christ Theodoropoulos'.

CHRISTINE THEODOROPOULOS | AIA, PE

DEAN | COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

"[STRATEGIC] PLAN HIGHLIGHTS INCLUDE GOALS TO EXPAND STUDENT LEADERSHIP AND OPPORTUNITIES FOR INPUT, CREATION OF A COLLEGEWIDE PROGRAM OF TECHNOLOGY TOOLS AND METHODS INSTRUCTION, AND INCREASING OPPORTUNITIES FOR SHARED INTERDISCIPLINARY EXPERIENCES."

Celebrating Your Success

... AND ENSURING IT FOR CURRENT AND FUTURE STUDENTS

It's a wonderful feeling at commencement, celebrating years of academic and personal achievement with a walk down the aisle to claim that degree and the dream job that awaits.

Your choice to enroll in Cal Poly's construction management program and embrace the Learn by Doing spirit was brilliant, and now it's paying off. What could be more satisfying than realizing your professional hopes and dreams? For many Cal Poly alumni, giving back is the next step.

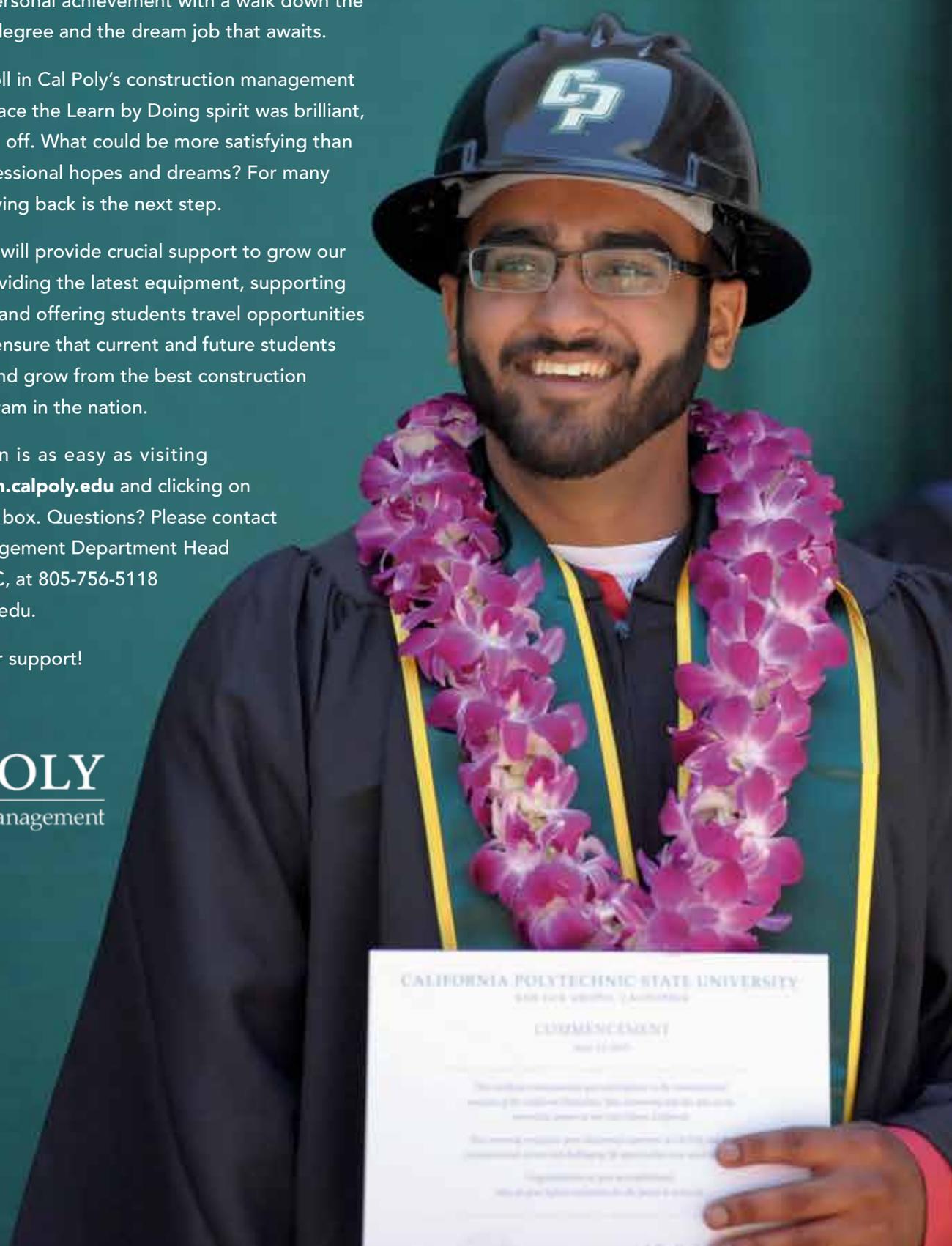
Your monetary gift will provide crucial support to grow our department by providing the latest equipment, supporting our hands-on labs, and offering students travel opportunities to job sites. It will ensure that current and future students continue to learn and grow from the best construction management program in the nation.

Making a donation is as easy as visiting <http://construction.calpoly.edu> and clicking on the "Support CM" box. Questions? Please contact Construction Management Department Head Allan J. Hauck, CPC, at 805-756-5118 or ahauck@calpoly.edu.

We appreciate your support!

CAL POLY
Construction Management

CM alumnus
Neil Patel ('15)



CAL POLY

Construction Management

California Polytechnic State University
1 Grand Avenue
San Luis Obispo, CA 93407-0284



LEADING THE WAY

CONSTRUCTION INNOVATIONS CENTER EARNS LEED CERTIFICATION

Cal Poly's Construction Innovations Center, completed in 2008, was one of three campus buildings to receive LEED Silver certification by the U.S. Green Building Council in 2017. The structures achieved certification in the operations and maintenance categories. LEED offers a framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions. | PHOTO BY JENAY REYNOLDS-SIBBACH