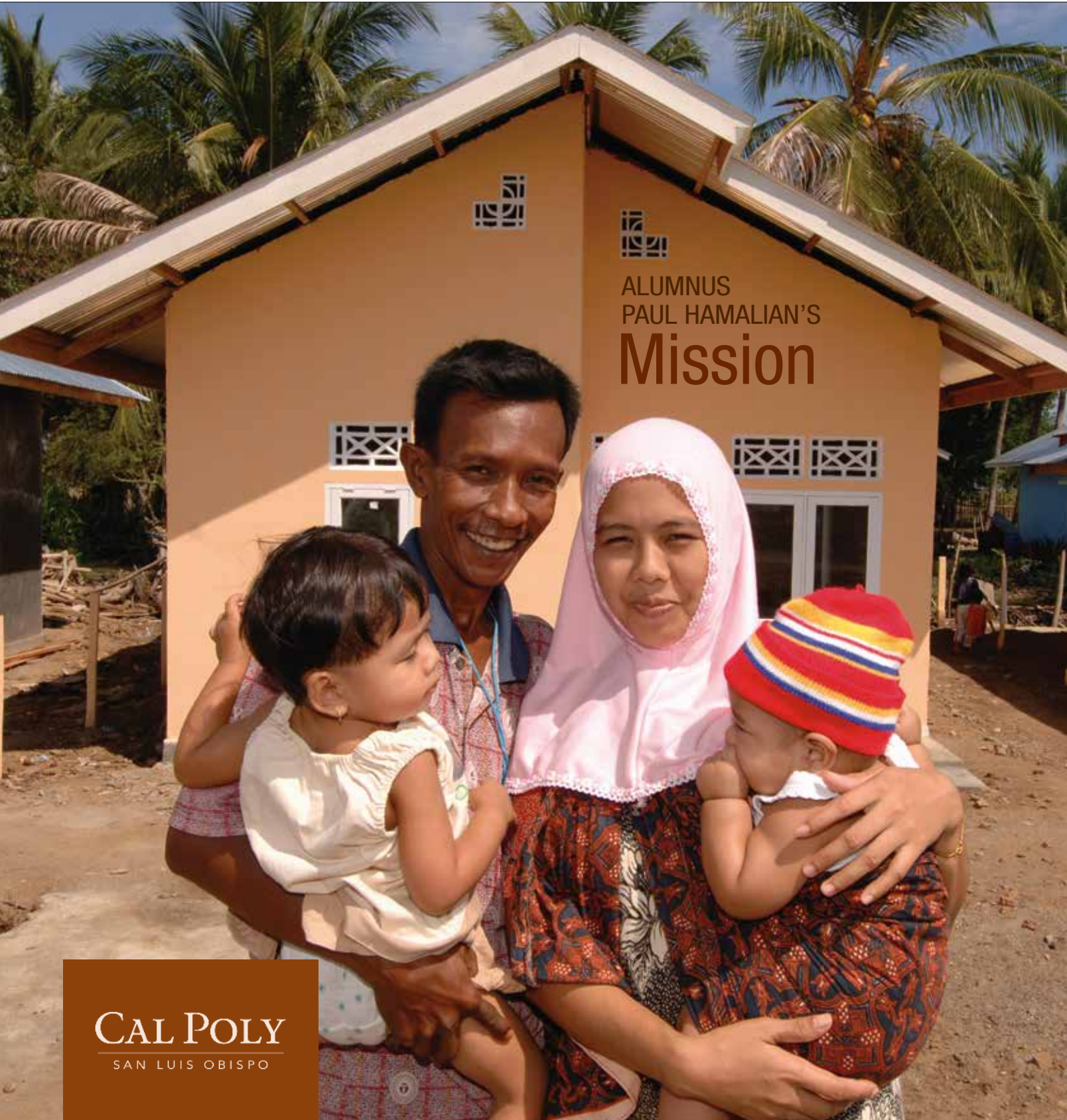


# CONNECTIONS

COLLEGE OF ARCHITECTURE & ENVIRONMENTAL DESIGN | WINTER 2014



ALUMNUS  
PAUL HAMALIAN'S  
**Mission**

**CAL POLY**  
SAN LUIS OBISPO





Dean Christine Theodoropoulos with a group of first-year architecture students

DEAN'S MESSAGE

OUR COLLECTIVELY RESPONSIBLE EFFORTS

IN THIS ISSUE OF CONNECTIONS, we celebrate ways our talented community fosters social and environmental responsibility.

We are helping international communities in need. David Watts, assistant professor of landscape architecture, collaborates with students to create healing gardens and playgrounds for South African children, and James Mwangi, architectural engineering professor, advances construction quality in Haiti. Closer to home in California, city and regional planning lecturer Zeljka Pavlovich Howard and her students help develop community plans, and faculty members Adrienne Greve and Chris Clark address water security needs.

We continue to derive inspiration from our graduates. Ted Hyman (B.ARCH, 1979) of ZGF Architects elevated the campus with the new Baker Center for Science and Mathematics. Paul Hamalian (B.S., CM, 1988) joins our distinguished roster of honored alumni in recognition of his transformative leadership at Habitat for Humanity International. For more news about CAED alumni, see "Class Notes," a new addition to Connections. And be sure to read the exciting news that our undergraduate landscape architecture program moves up to No. 4 nationally, and the architecture program earns the No. 1 ranking in the nation.

You are very important to our ongoing success and future promise, and we thank you for your contributions that enhance student experience and provide our graduates with rewarding transitions from school to professional practice.

This year we are planning for future investments to support the college's mission. There is great interest in expanding interdisciplinary opportunities, deepening our commitment to graduate programs, and enhancing facilities and services that promote hands-on learning and faculty success. I invite your participation and welcome your suggestions for future partnerships. It makes all the difference!

*Christine Theodoropoulos*  
Christine Theodoropoulos | AIA, PE

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ON THE COVER

Beaming, a young couple stands in front of their new home, built in Indonesia by Habitat for Humanity. Read about the organization and its senior director of strategic planning, CAED alumnus Paul Hamalian, on page 4.

COURTESY HABITAT FOR HUMANITY

Visionaries Honored

ASSOCIATE DEAN ZWEIFEL, ALUMNUS EMANUELE BARELLI AWARDED HASSLEIN MEDAL

CAED ASSOCIATE DEAN K. RICHARD "DICK" ZWEIFEL and the late Emanuele Barelli (B.S., ARCE, 1970) were awarded the 2013 George Hasslein Medal for exemplifying the Learn by Doing philosophy championed by Hasslein, the founding dean of the college.

At the recent CAED Foundation's Gala, both men were praised for keeping alive Hasslein's vision for interdisciplinary learning and teaching — the core of a CAED education.

With more than 40 years of service to the CAED, first as a professor then as associate dean, Zweifel was recognized for his dedication and for encouraging collaboration among the college's majors while engaging students and alumni to further promote interdisciplinary learning. "I know of no other person who has given so much of himself for the good of the CAED," said Dean Emeritus Paul Neel.

Zweifel, a Fellow of the American Society of Landscape Architects, was elected its 2014 president-elect.

After immigrating to the U.S., Barelli earned his degree at Cal Poly and built a successful structural engineering firm. He gave back to his alma mater through a scholarship



Honorees Emanuele Barelli (left) and Richard Zweifel (below) with his wife, Pam, daughter Katy, and Emanuele Barelli's widow, Carolyn, next to a portrait of George Hasslein

PHOTO (LEFT)  
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endowment and remained connected to Cal Poly until he passed away in 2007. Barelli and his wife, Carolyn (B.A., ENGL, 1970), edited and published "The Vision," a book that celebrates Hasslein's vision and memorializes the founding of the college. In accepting the award, Emanuele's daughter, Maria Barelli, told how her late father supported and advocated to establish the George Hasslein Endowed Chair for Interdisciplinary Studies in Environmental Design to help students turn their professional dreams into reality.

The CAED Foundation is accepting nominees for future medal recipients. For information, call 805-756-5138. ■







## HABITAT FOR HUMANITY'S Strategic Planner

MEET PAUL HAMALIAN, CAED'S  
HONORED ALUMNUS FOR 2013

*Habitat for Humanity volunteers exude team spirit at a construction site in the tropics (above).*

*Paul Hamalian (left) is senior director of strategic planning.*

SINCE HIGH SCHOOL, Paul Hamalian (B.S., CM, 1988) knew he wanted to serve people, and he has since stayed true to that mission.

During summers in college, he worked on international service projects. After Cal Poly, Hamalian earned a Master of Divinity from Gordon-Conwell Theological Seminary in Massachusetts and later an MBA from the University of Michigan.

Early in his career, he wanted to help the economically disadvantaged and found a perfect fit working with Habitat for Humanity, where he has served for 19 years.

Hamalian, the CAED's 2013 Honored Alumnus, credits Cal Poly for giving him the confidence to take on big tasks. "At Cal Poly, I learned how to build everything from a house to a nuclear power plant," he said.

Habitat for Humanity does not build nuclear power plants, but it is interested in housing and shelter services. In his role as senior director of strategic planning for Habitat for Humanity International, Hamalian helps provide housing for impoverished people around the world. His travels take him to far flung chapters, where he confers with local

*A Habitat for Humanity volunteer builds a home in Ghana (above, left), and a happy homeowner moves into hers in Brazil (right).*

PHOTOS COURTESY HABITAT FOR HUMANITY

Habitat leaders to understand their strategies and integrates them into a global strategic plan.

Under Hamalian's guidance, Habitat has grown tremendously. "When we started, Habitat was in 38 countries, providing mostly complete houses to about 30,000 people a year," he said. "Today we work in more than 100 countries, providing complete homes and shelter services to more than 600,000 people a year."

But growth did not change Habitat's core. "Our principles, the inspiring grassroots affiliates in the U.S., and the dedication of our staff have not wavered," he said.

Hamalian is humble about the scope of his work. "There is a sign next to our office that says, 'Tonight, 800 additional people will sleep in safe, decent, affordable shelter. Your work today helped make that possible.' I am fortunate to go home every night knowing others have been served with dignity," he said. ■





# Making Progress In Haiti

PROFESSOR MWANGI'S EFFORTS PAY OFF

FOR ARCHITECTURAL ENGINEERING PROFESSOR James Mwangi, the third time really was the charm. The third trip to Haiti, that is.

Mwangi first went to Haiti in March 2010, two months after a devastating earthquake felled Port-au-Prince and surrounding cities. He returned a second time the following year while on sabbatical to teach local architects, engineers and construction tradespeople how to build homes to withstand earthquakes and cyclones.

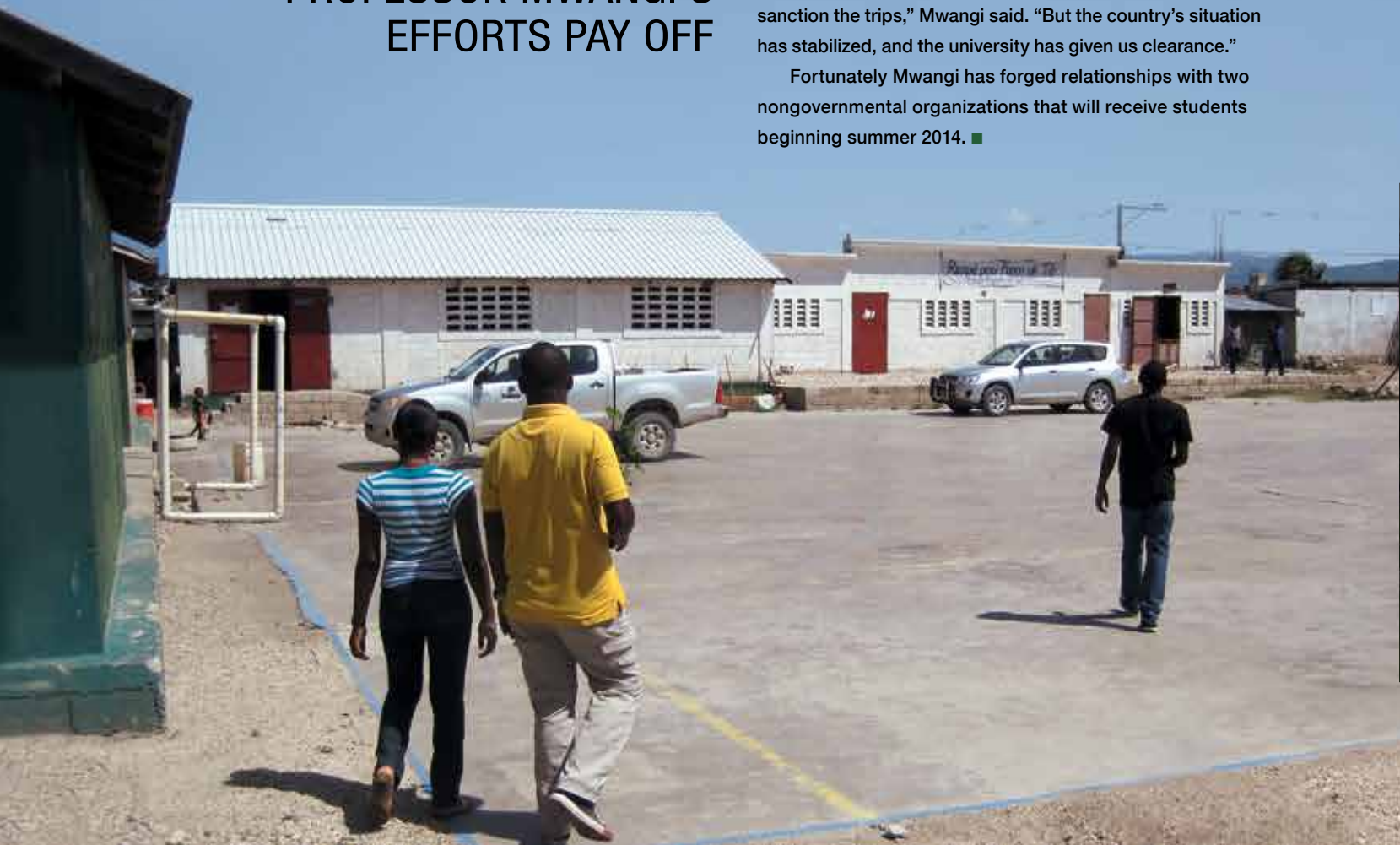
On his third trip to Haiti in summer 2013, he witnessed the fruits of his labor. “It was amazing!” he said. “Two years had passed, and I could see the progress. The projects had been completed exactly as I had taught them in my workshops. It was very satisfying.

“The engineers and contractors showed me around,” he continued, “and how proud they were! ‘This is what you taught us,’ they said. It was very encouraging.”

The government had made progress as well. “When I was there two years ago, a lot of roads were under construction,” he said. “I couldn’t visit some neighborhoods because of the disrepair.” Now the streets are paved and well lit, which helps with security. And the tent cities in the parks are gone. The parks have been cleaned up, and people are enjoying them.

“In the past, I wanted to take ARCE students to Haiti, but because of political and social instability, Cal Poly wouldn’t sanction the trips,” Mwangi said. “But the country’s situation has stabilized, and the university has given us clearance.”

Fortunately Mwangi has forged relationships with two nongovernmental organizations that will receive students beginning summer 2014. ■



*The new market building in the community center is ready for use (above).*

*A completed building constructed during a hands-on training workshop (left)*

*Opposite page: Professor Mwangi conducts building safety inspections with Haitian engineers and architects in 2010 (top).*

*The newly constructed Pax Christi youth center (a former garbage dump site) in the Cite Soleil commune of Port-au-Prince (opposite, bottom)*





# Made With Love

## PROF DAVID WATTS AND STUDENTS BUILD SOUTH AFRICAN PLAYGROUND

**D**URING DAVID WATTS' FIRST TRIP to Alexandra Township in South Africa, the landscape architecture professor planted a small root vegetable garden so the 500 children and caregivers of Ratang Bana (meaning Love the Children) AIDS Orphanage would have fresh produce.

When he returned 18 months later with 13 Cal Poly undergraduates, Watts had grander plans: to build a playground in seven days.

The students completed the initial design spring quarter. When they arrived in summer 2013, they found modifications were needed. "We held design charrettes daily to address material and scheduling problems," Watts said.

With shovels and wheelbarrows, they moved 30 cubic yards of soil, 30 yards of limestone fines, and another 20 cubic yards of decomposed granite.

Most of impoverished Alexandra's residents live in shacks. Because of the extreme poverty, Watts knew the importance of using non-traditional materials that people could not use for building homes. Recycled tires and leftover playground equipment and natural products like soil, grass, logs and plants were transformed into a music area with drums, chimes and music sticks; swings; climbing structures; a slide; benches where "grannies" can teach youngsters crafts and sewing; and a foundation for a future half basketball court.

The project is a collaboration of Watts' design/build firm and Kidlinks World and Gumboots charities. Students finance their own travel, and the experience can be used to satisfy a graduation requirement for an internship. It also changes lives. "They've all told me their professional and moral values have been shaped by this service-learning experience," Watts said.

Watts himself is no stranger to giving back. He was recognized by Cal Poly in spring 2013 as one of four Service Learning Faculty Fellows — the only one from the CAED.

Participants included landscape architecture seniors Michael Aguas, Alex Clark, Andrew Elias, Joanne Mark and Nicholas Tuttle, and juniors Alex Henige, Alix Kidwell, Amanda McCaulley, Erica Monson, Rachel Santa Olalla, Ryan Higginbotham, Tony Webster and Julianna Wild. ■



David Watts with a young friend (above)

Site preparation involved moving a lot of soil, limestone and decomposed granite (left).

The students' initial playground design (below)

Opposite page: Young residents of Ratang Bana enjoy their new playground.







# Learn By Planning

## COMMUNITY-BASED STUDIOS AID COMMUNITIES AND ENRICH HANDS-ON LESSONS

**E**NGAGING STUDENTS in community-based studios and giving them an opportunity to work with communities in developing general, community, and urban design plans is a longstanding tradition of the City and Regional Planning Department.

Capstone fourth-year studios are organized into two quarter-long sessions and are part of several classes in the department. “They allow students to take theoretical knowledge and techniques and apply it to ‘real life’ planning situations,” said Zeljka Pavlovich Howard, planner and lecturer.

Students work with a community in California, mostly in San Luis Obispo County, though they have worked in the Bay Area as well. Most recently they worked with Templeton to assess development opportunities for that community and prepare planning and design studies for areas with development potential.

The students produced a Public Outreach Report summarizing their extensive outreach efforts and three reports describing proposals for new areas of development. County planning staff will use the documents when they

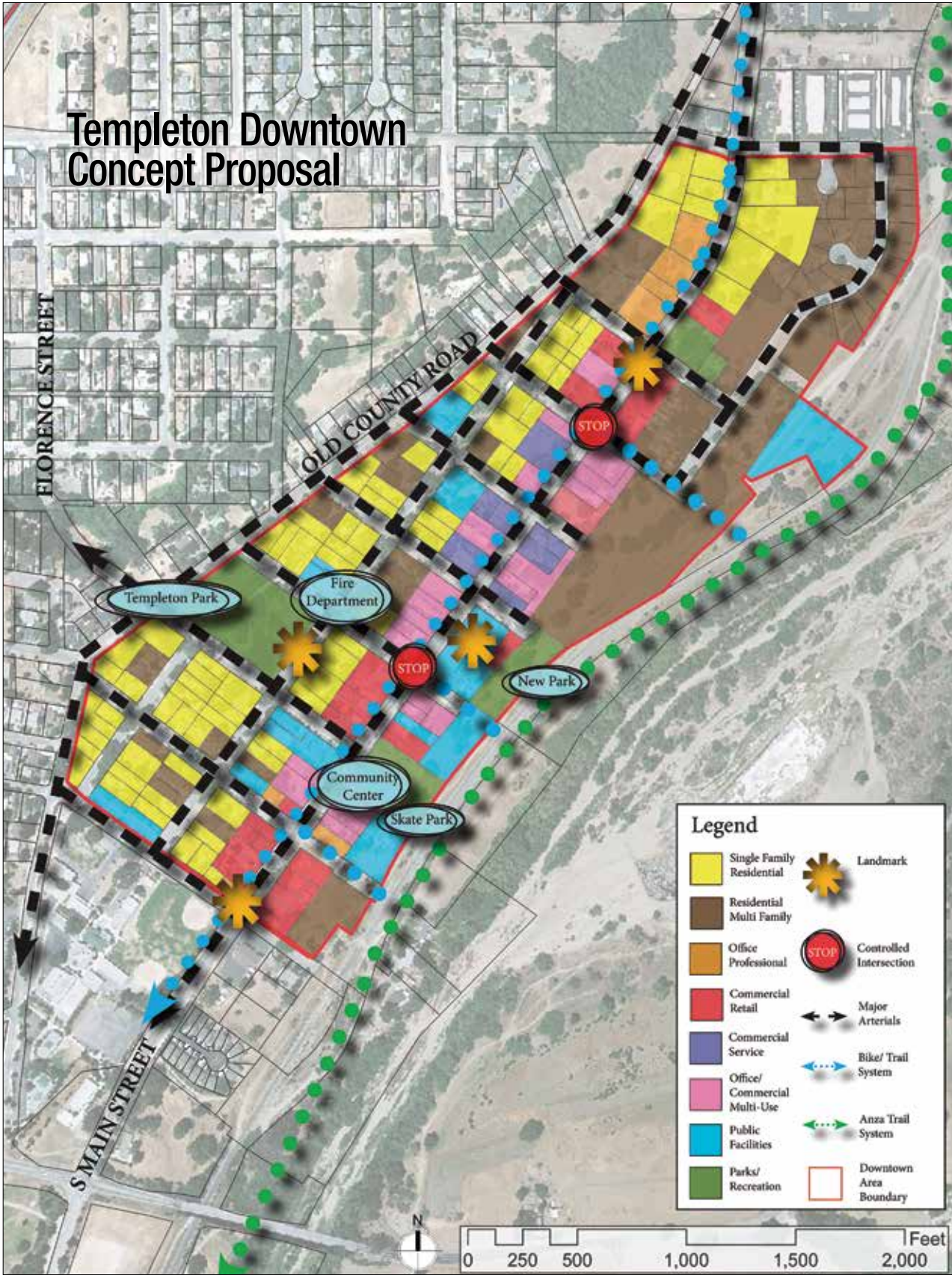
*Faculty member Zeljka Pavlovich Howard and students (above) invite input from community residents in the planning process.*

*Opposite page: One in a series of concepts created by students for a Templeton development plan*

update the Templeton Community Plan. “Students bring an energy and vitality to these interactions that are much appreciated,” Howard said.

Typically students in the various courses complete eight or nine projects every year for communities interested in getting students’ planning and urban design ideas, using their help in engaging community members in the planning process, and collecting information about the community.

“The students and the community both benefit from these efforts,” Howard said. “The exposure enriches students’ experiential learning, stimulates development of their cognitive problem-solving skills, and instills a sense of social responsibility. Plus, the community gains information about itself, its opportunities, and the constraints it has to address in accomplishing its goals. This hands-on learning is a win-win for all.” ■





# Part of the Solution

## CAED STUDENT, FACULTY EVENTS ADVANCE THE FIELD OF DESIGN

**C**AED STUDENTS AND FACULTY MEMBERS aren't content to merely stay abreast of industry trends and issues; they actively foster engagement and advance dialogue. By hosting three conferences last year, they brought together leaders in industry and academia to deliberate important issues and share their expertise. "Certainly the college is the catalyst for a broader conversation in environmental design," said Dean Christine Theodoropoulos.

### Planning for the Changing Climate

In January 2013, that conversation hinged on climate change and how cities can prepare for it. The first California Climate Action Planning Conference was held in partnership with the Governor's Office of Planning and Research to focus on local and regional climate action planning.

Cal Poly President Jeffrey D. Armstrong provided opening remarks and spoke about the university's sustainability efforts. Experts from around the state and beyond led in-depth discussions on the technical and political facets of climate action planning. Organized by Mike Boswell and Adrienne Greve of the City and Regional Planning Department, the sold-out conference was deemed a success.

"More than 100 cities in California have adopted plans, programs and tools to deal with the effects of climate change," Boswell said. "It was time to get everyone in on the discussion, share our knowledge of best practices, and look ahead to the next challenges." Those challenges include getting the state and federal governments to play a more active role.

"California has done a good job, but it has to do more," Boswell said. "And the federal government needs to take a more supportive role. We also have to find ways to communicate with the public and help them become part of the solution."

Future conferences are planned for 2014 in Los Angeles and 2015 at Cal Poly.



*Attendees of the 2012 Structural Forum (from left) are ARCE student Ethan Meier, Klare Yavasile of Brooks Ransom Associates, and Eric Bain (B.S., ARCE, 2011), now a Brooks Ransom employee.*

### Conference Focus: Virtual Design, Construction

"Riding the Wave: Embracing Virtual Design and Construction" was the theme of the 49th Annual Associated Schools of Construction (ASC) International Conference, hosted by the Construction Management Department in April.

Held at the beachfront Cliffs Hotel in Shell Beach and in the Construction Innovations Center on campus, it was designed to give the approximately 200 participants an experience to remember, both intellectually and experientially. By all accounts, it hit the mark.

The conference featured keynote speakers Rex Miller, senior partner at TAG Consulting, and Kimon Onuma, president and founder of Onuma Inc.

Miller, TAG's resident futurist, leads the company's architecture/engineering/construction practice

strengths-based leadership training. He presented "How to Lead When the Students are Smarter Than You!" He talked about new practices such as deep cross-functional integration and collaboration and made a case that educators must lead the cultivation of new attitudes that recognize we live and work within a complex network of stakeholders.

Onuma spoke on "Riding the BIMStorm Wave for California Community Colleges." Onuma Inc., a leader of building information modeling (BIM) technologies, created the award-winning Onuma System that uses BIM and geographic information systems (GIS) to manage vast amounts of data. The data is stored in a neutral open format, making it accessible to those who need it in a system they can easily manipulate. It is being used by the California Community College System, which includes 5,200 buildings at 112 campus locations.

"The ASC Annual Conference is probably the most important professional development opportunity for construction management faculty from around the country," said Al Hauck, Construction Management Department head. "We were pleased to host it this year to provide faculty the chance to view our facilities and experience the Central Coast."

### ARCE Structural Forum: More than a Job Fair

"At first glance, it's a job fair for ARCE students," said Caleb Dunne, Structural Forum chair for 2014. "But it's much more than that. It gives students a real and personal glance into the different opportunities in the structural engineering industry."

Every year an architectural engineering student is charged with organizing Structural Forum, an event held in February that includes morning speakers, an afternoon career fair, and an evening banquet featuring a keynote speaker.

"Students attend lectures on real projects, network with industry professionals, and learn what is ahead of them and how to get there," Dunne said. "Many of the company reps who attend are also Cal Poly ARCE grads, so they provide great advice on what you can do with an ARCE degree and what steps to take after graduation."

In 2013 about 130 students attended the 23rd annual Structural Forum, titled "Structural Expressions." Four dynamic speakers addressed how engineering influences architecture.

Later that day students spoke with potential employers at a career fair. Participating companies fund the event, the largest fundraising activity for Cal Poly's student chapter of SEAOC (Structural Engineers Association of California). ■



ALUMNUS TED HYMAN TALKS ABOUT THE

# Transformative Powers of Architecture

**N**OT MANY ALUMNI have the opportunity to transform their alma mater, but Ted Hyman (B.ARCH, 1979) did, and in the process forever changed the look and experience that is Cal Poly.

When the \$119 million Warren J. Baker Center for Science and Mathematics welcomed its first students in fall 2013, they were first awed by its sheer size: six-stories and 189,000 square feet — the second largest academic building on campus after the Kennedy Library.

Inside they saw state-of-the-art laboratories, cutting-edge research facilities, studio classrooms that foster student-teacher interaction, centers of excellence, faculty offices, and study areas that can accommodate more students than can the University Union.

Plus it's a model of sustainability.

Thanks to the tireless efforts of Phil Bailey, dean of the College of Science & Mathematics, and those of dozens of people on campus and off, the building is a testament to what determination and vision can accomplish.

The center is aptly named for President Emeritus Warren J. Baker, whose 31 years of leadership transformed Cal Poly into a nationally recognized, comprehensive polytechnic institution.

Hyman, managing partner of ZGF's Los Angeles office, has been with the company 25 years. We talked with him about the remarkable facility. *continued*

*Architecture alumnus Ted Hyman returned to campus to work on the Warren J. Baker Center for Science and Mathematics, dedicated in November 2013.*

PHOTO BY BRITTANY APP







# Q&A

## WITH TED HYMAN

*continued from page 14*

**How did you come to be selected for this transformational building?** ZGF was selected after a formal proposal and interview process. As early as the pre-proposal conference, we were inspired by Dean Bailey's vision for the project. We are always looking for clients with high expectations of the design team and their buildings.

**What about the center are you most proud of?** The building is programmatically and physically very large, yet is sited in a way that never feels overwhelming. The elements of the exterior draw from both historic buildings on campus like the Administration Building and some of the newer buildings.

**What were some of the challenges?** In addition to continuously fighting the budget, perhaps the most difficult challenge was convincing the faculty they deserved a good building and they could have it all — a great place to teach and a beautiful place to interact with students — and stay within the budget.

**What were the more rewarding aspects?** Most gratifying was the opportunity to work with Dean Bailey and the faculty — to see their excitement as the physical manifestation of their vision became a reality. We hope the building and environment we created inspires students to learn more about science. At



*The center boasts interactive-friendly studio classrooms (above) and state-of-the-art laboratories (opposite page). PHOTO BY JAY ERKER*

the same time, we hope the building encourages the university to continue to raise its expectations of the built environment in which the faculty, staff and students live and work.

**How did it feel to return to campus to lead this significant project?** Incredible! The opportunity to come back to where you were educated is rare, but the opportunity to work on a building that is — from everyone's perspective — transformative was extraordinary. The Baker Center knits together the fabric of the campus; it works to create a new heart to the campus. The studio classrooms transform the way faculty and students interact and allow instructors to teach science in a whole new

way. The study space just outside faculty offices gives students unprecedented access to the faculty.

**Is it LEED certified?** The building is registered to achieve a LEED Gold rating. From our perspective, the more important test will be how the building actually performs. It is designed to use 30 to 40 percent less energy than similar lab buildings.

**Can you elaborate on some of the center's sustainable features?** The offices are passively ventilated, boosted by radiant heating and cooling and operable windows. Offices surround an atrium that is also passively ventilated, including the atrium smoke exhaust system. The laboratory classrooms

utilize chilled beams and lab monitoring to save money and improve safety. Data on building use will be displayed so students can see the implications of their behavior on the energy demand of the building.

**How did Cal Poly's Learn by Doing help in your career?** Cal Poly's architecture program is particularly broad-based, including classes in structural and mechanical engineering. With our approach to high performance, based on highly integrative building systems that must perform as well as be aesthetically pleasing, it is crucial to be able to talk to engineers in their language and understand the issues from their perspective. ■



# WATER SECURITY: THE NEXT BIG CRISIS?

*From California to Calcutta, water security is shaping up to be a major challenge in the near future. This critical need has spurred several CAED faculty members to find innovative ways to conserve and manage what is rapidly becoming a resource more valuable than oil.*

## Stormwater as Resource

City and regional planning Professor Adrienne Greve last year restructured an elective course, Planning and Urban Ecology, to focus on low impact development (LID), which is based on design elements and management practices that seek to mimic a site's natural hydrology.

LID allows water to be managed in a way that reduces the impact of built areas and promotes the natural movement of water within an ecosystem or watershed. On a broad scale, low-impact development can maintain or restore a watershed's hydrologic and ecological functions.

It promotes managing stormwater as close to its source as possible and treating it as a resource rather than a waste product. Some LID principles include employing bioretention (a process that slows stormwater to filter out contaminants

and recharge groundwater), rain gardens, vegetated or "green" rooftops, rain barrels and cisterns, and permeable pavements.

"Familiarity with LID techniques is critical for future professionals who will spend their careers focused on the design and management of urban settings," Greve said. "It is a way to lighten the impact of development by protecting aspects of ecological function, improving water quality, and enhancing aesthetics."

## Preparing for Climate Change

Over the last few years, Greve has focused her work on climate change and how to help cities and communities address the changes projected to occur as a result. As project lead for the State of California's Adaptation Planning Guide, Greve and a team of Cal Poly faculty and graduate students helped develop "The California



Cross-Section of Low-Impact Development (LID) Streetscape

Climate Adaptation Planning Guide" (APG), now available to the public.

The guide is intended to support communities in proactively addressing the consequences of climate change. It outlines a step-by-step process for assessing the vulnerability of specific areas and adapting and developing a strategy to deal with the changes. The guide focuses on defining the local and regional impacts and identifying adaptation strategies.

"Climate change has the potential to influence nearly all aspects of community function including public health and safety, economic continuity, ecological function, water supply, and marine resources," Greve said. "Preparing for climate change impacts should be considered in all aspects of planning for a community's future. The APG was intended to provide guidance to communities interested in taking action."

## Educating Water Leaders

City and regional planning lecturer Chris Clark is coordinating a graduate program in water leadership and management for the Metropolitan Water District, which supplies water to Southern California's 19 million customers. The program offers emerging managers an opportunity to learn leadership skills and interdisciplinary knowledge designed to help them more quickly take on management responsibilities.

The need is becoming critical, as Fidencio "Feedy" Mares, director of human resources for the water district points out. "More than 30 percent of our water personnel are eligible for retirement within 10 years, and not enough graduates are being produced in California to meet workforce needs in 2020," he said.

To help address this need, an interdisciplinary team of Cal Poly professors from the CAED, College of Liberal Arts, and the

*Student Ryan Wassum developed a design for storm water management for Professor Adrienne Greve's Planning and Urban Ecology class (above).*

Orfalea College of Business has teamed up with faculty from Cal State L.A. to teach the skills and knowledge necessary to become top managers and leaders.

"The industry needs professionals working together who understand what the other is doing," stressed Clark.

Classes include Water Development and Delivery; Water Resource Law and Policy; Economics of Water and Power; Infrastructure Finance; and Global Futures. The courses are taught at the Metropolitan Water District's Union Station offices on alternating Fridays over seven weeks. ■



## FROZEN ASSETS

Can a chunk of ice help conserve water? Landscape architecture Professor César Torres-Bustamante hopes so. The creator of "Icy Poles" or "Popsicles," he aims to create awareness of water use in everyday activities.

"A number does not adequately convey the amount of water we use. I want to raise awareness about the value of this limited resource," he said.

Toward that end and with the help of a grant, Torres-Bustamante created a prototype ice cylinder by filling a Sonotube with the amount of water each Californian typically uses in a day –

slightly more than 100 gallons. He froze it in the Cal Poly Meat Lab and installed it near Dexter Lawn. It took three days of temperatures ranging from 78°F to 82°F for it to melt.

"The project illustrates the magnitude of water use – and misuse – in California homes," he said. "I'm hoping people will become aware of how much water they use in everyday activities and reduce it."

The professor aims to install more "Popsicles" on campus and downtown. He is awaiting approval from the city of San Luis Obispo. ■



# Winning Collaborations

## INTERDISCIPLINARY TEAMS REIGN SUPREME IN NATIONAL COMPETITIONS

### Team Wins Bank of America Affordable Housing Challenge for Third Year

For the third consecutive year, an intercollegiate team of Cal Poly graduate and undergraduate students won the Bank of America Affordable Housing Challenge. Students in city and regional planning, architecture, and accounting partnered with People's Self-Help Housing to develop The Cambria Pines proposal.



Judges selected the team's proposal over projects from UC Berkeley, UC Irvine, and two others from Cal Poly. In the competition, teams work with affordable housing developers to create proposals for new affordable or low-income housing projects. Gail Lannoy, community development banking executive for Bank of America, described the winning proposal as "masterful, innovative and realistic."

Hemalata Dandekar, City and Regional Planning Department head and professor, and Menka Sethi, lecturer in the finance area in the Orfalea College of Business, co-taught the class.

### Four Disciplines Collaborate to Win National Structural Design Contest

An interdisciplinary CAED team won first place and \$1,000 in the Structural Engineering Institute of American Society of Civil Engineers' Student Structural Design Competition. The winning project was the Engineering Hangar, a 52,000-square-foot, state-of-the-art mechanical fabrication shop. Team members were Victor Ramos, architectural engineering; Helene Deprez, an architecture exchange student from Paris; Kevin Brown and Tyler Edwards, construction management; and Jason Chen and David Gonzalez, landscape architecture. Alumni support helped Ramos,

*The Bank of America Affordable Housing Challenge winners include (top, back row, from left): Cameron Anvari, business administration; Brian Harrington, master's of city and regional planning; Smita Naik, master's of architecture; and Emily Gerger and Tim McGarvey, city and regional planning. Front row: Nuri Cho and Andrew Levins, city and regional planning.*

*First-place members of the SEI/ASCE Student Structural Design Competition team (from left) are Tyler Edwards, Helene Deprez and Victor Ramos.*



Deprez and Edwards and architectural engineering advisor and Professor Brent Nuttall travel to Pittsburgh in May to present with two other finalist teams at the SEI Structures Congress.

### Intercollegiate Team with Landscape Architecture Students Wins Second in National Competition

For the second year in a row, Cal Poly students placed second overall in the PLANET (Professional Landcare Network) National Collegiate Landscape Competition. The interdisciplinary team competed against teams from 63 schools from across the nation. Cal Poly's team included landscape architecture majors Sara Berryhill, Rachael Haacke, and Hannah Zimmerman, along with students and advisors from the College of Agriculture, Food & Environmental Sciences.

Zimmerman placed second in the 3-D Exterior Landscape Design Competition; Haacke won fourth in the Interior Landscape Design Competition and was among the top 10 in both Construction Cost Estimating and Computer-Aided Landscape Design; and Berryhill was a top 10 winner in Exterior Landscape Design.

### Awards Abound at ASC Competition

Construction management teams won five national awards at the 2013 ASC (American Schools of Construction) Region 6 and 7 competition held in February in Reno, Nev. The Marine, Preconstruction and Risk Management teams won first, and the Electrical and Mechanical teams took third. Teams have 16 hours to prepare an oral presentation and develop and submit written proposals to a problem related to either a construction project or a design-and-construct project. In the Risk challenge, students had to walk through several stages of the risk process while completing a job. ■



*ASC Risk Management national champions (above, back row, from left): Eric Ross and Cole Reichenbach (alternates), Kegan Haerr, Kyle Stelter, and coach, Assistant Professor Greg Starzyk. Front row (from left): Camille Hardin, Jamie Gretz, Deanna Alexander (captain), and Kyle Ross.*

*Landscape architecture major and PLANET team member Hannah Zimmerman receives award from Norman Goldenberg, board member of PLANET and Project EverGreen.*

COURTESY PHILIPPE NOBILE PHOTOGRAPHY

**For other college news, visit [caed.calpoly.edu](http://caed.calpoly.edu).**



# Class Notes

## 60s >>>

**Bill Brooks** (B.S., ARCE, 1961) retired in March 2013 after working 15 years for the Southeast Alaska Regional Health Consortium, remodeling its historic Indian Health Service Tuberculosis Sanitarium. Working for the Chickasaw Nation Division of Health, he coordinated design and construction of the largest Native American-funded hospital and clinic in the U.S.

**Rafy Mamian** (B.S., ARCE, 1965) has been practicing structural engineering in California for 48 years. He and his wife, Susie, have been married 53 years. They have four children and 11 grandchildren.



**< Larry Stricker** (B.ARCH, 1968) was partner from 1981-01 at Killingsworth, Brady & Smith. He now specializes in resort hotels, spas and golf country clubs at Larry P. Stricker & Associates Architects. In 1986, he founded Godspeed Vineyards in his hometown of Napa.

**Tim Schmida** (B.S., ARCE, 1968) retired as principal at Burt Hill's healthcare studio in Butler, Penn. He had a "great career, traveled and did good stuff, but his time now belongs to his wife, Linda, and their four grandsons."



**< Dennis Thorpe** (B.S., ARCE, 1969) retired in 2011 after 36 years as a structural engineer. Dennis and his wife, Teresa, travel frequently and have been to every continent but Antarctica and has visited the likeness of Antoni Gaudi.

## 70s >>>

**Gerald Shingleton** (B.ARCH, 1971) has written and published five books: "Architects Reference Manual for Residential Construction," "Real Estate Math – Completely Explained," "Rainbow Caper," "Junebug," and "God-Power."

**Richard Moewe** (B.S, CM, 1972) is supervising construction of the Saudi Arabia North-South rail project, the largest rail project in the world. When completed, he plans to return to

Salem, Ore., to meet alumni in the area and get involved with student support.

**Lee Johnson** (B.S., ARCE, 1973) designed San Luis Obispo's Animal Services office, Juvenile Services Center, Employment Development Department, and Social Security office. He also taught at Cal Poly and worked for the Army Corps of Engineers at Vandenberg Air Force Base. He retired in 2010 and credits his education for an interesting and challenging career.

**Larry Wolf** (B.ARCH, 1974) founded WLC Architects in 1974 and retired in 2010. He is writing his first book, "An Architect's Journey."



**< Tom Craig** (B.S., LA, 1975) lives on the Central Coast with his wife of 41 years, Laurie. They have three children. Craig is a licensed landscape architect at Hearst Castle. He feels lucky to be living the dream and sends his best to Gary Dwyer and Jake Feldman. "You guys paved the way for me!"

**Michael Krakower** (B.S., ARCE, 1975) created a rendering of Mission San Luis Obispo as a final project in his Color Delineation course and was hired in 2005 to do a complete seismic retrofit of the real thing. His structural engineering practice, Krakower & Associates, celebrated its 20th anniversary specializing in earthquake hazard reduction of existing buildings and bridges.

**Brian Cearnal** (B.ARCH, 1976) celebrates the 30th anniversary of founding Cearnal Andrulaitis LLP in Santa Barbara. The 13-person firm has designed some of Santa Barbara's most prominent buildings, including the headquarters of Pacific Capital Bancorp, Canary Hotel, Santa Barbara County District Attorney Building, Braille Institute, and El Carrillo for Santa Barbara Housing Authority. He also rebuilt Cottage Hospital, including its new Orfalea Childcare facility and Workforce Housing project.

**Bruce Nepp** (B.ARCH, 1977) has worked in the United Kingdom nearly 20 years, establishing offices for U.S.-based firms. He lives in rural Kent with his wife and 6-year-old daughter and has his own practice, Abell Nepp, specializing in science and higher education facilities.

**William Faus** (B.S., CRP, 1978) retired from city planning in Gilroy in 2009 after 30 years of civil service. He transitioned into nonprofit, charity and volunteer work. Faus recently received a

25-year award for his work at the Children's Home and enjoys cooking for his wife of 35 years, who has not yet retired.

**Craig Park** (B.ARCH, 1978) authored "The Architecture of Image: Building Your Professional Practice" and "The Architecture of Value: Building Your Professional Practice," and is a managing principal for The Sextant Group. He received the 2007 Weld Coxie Marketing Achievement Award. He frequently presents on strategic marketing for design, engineering and construction firms.

## 80s >>>

**Peter Arnet** (B.ARCH, 1981) is director of project management for the Shanghai Disney Resort project in Shanghai, China.

**Nord Eriksson** (B.S., LA, 1981) is partner at EPT Designs. He is married with two sons. He recently traveled to Spain to study historic landscape precedents and how they apply to modern gardens in arid settings.

**Matt O'Brien** (B.S., CRP, 1981), senior project manager for HSU Builders, completed renovating the historic Elephant Community Center at the Smithsonian's National Zoo in Washington, D.C. The project is certified LEED Silver.

**Mike & Sharon Singleton** (both B.S., LA, 1981) continue to mix business with pleasure as professional land and transportation planners working on trail system projects, including a 35-mile segment of the Salinas River in San Luis Obispo County. Their active lifestyle allows them to plan transportation as users, not just specialists.

**Paul & Carolyn (Fritzsche) Dooley** (both B.ARCH, 1982) live in Carlsbad, Calif., where Paul is director of facilities for High Tech High, and Caroline designs custom homes. They are celebrating their 25th wedding anniversary.

**Doug Hawk** (B.ARCH, 1982) is senior architect with the Capital Improvements Division of Placer County and lives in Penn Valley with his wife, Barbara, who teaches fifth grade for the Palermo School District. They recently traveled to Japan.

**Martin Flores** (B.S., LA, 1983) recently served on a technical advisory panel on behalf of Urban Land Institute's San Diego/Tijuana District Council board of directors tasked with exploring options for the redevelopment of downtown Tijuana. The collaboration with Tijuana officials, architects, and business owners was a groundbreaking effort for future cross-border social and economic communication and cooperation.

**Andrew Goetz** (B.ARCH, 1983) celebrated 30 years of work by building his architectural dream home. His practice is 25 years strong with more than 300

completed projects, mostly in Newport Beach and Corona del Mar, where his house is located.

**Tom Case** (B.S., CM, 1986) is senior vice president for Granite Construction and is responsible for strategic planning, business development, and operational support services throughout the country. He and his wife of 28 years have two children and live in Monterey.

**Hector Perez** (B.ARCH, 1987) was appointed graduate programs coordinator at Woodbury University School of Architecture in San Diego. In November 2012, he completed his first project as designer-developer: a mixed-use 4,000-square-foot building called La Esquina.

**Gregor Smee** (B.ARCH, 1987) is principal at Smee + Busby Architects in Knoxville, Tenn., a company he founded in 2004 that recently completed its first LEED project, a small public library in Tellico Village.

**Linda Windsor** (B.S., CRP, 1987) retired from city planning after 26 years with San Luis Obispo and Ventura counties and the cities of Oxnard and Ventura. She worked as an efficiency consultant, currently volunteers at her local visitors' center, and travels extensively.

**Tim Schulze** (B.ARCH, 1989) celebrated his 30th wedding anniversary with his wife, Stephanie. He is a founding partner of Pacific Cornerstone Architects, beginning its 20th year in San Diego.

## 90s >>>

**Bill Bentz** (B.S., LA, 1991) started working in the marble and granite business after graduating, specializing in large commercial projects. Travel, church, a health and nutrition business, and real estate keep him and his wife of 14 years busy. Bentz started abstract painting at Cal Poly and has shown his art in the U.S., Canada and Europe.

**Evelyn (Pratt) Carpenter** (B.S., ARCE, 1991) lives in Fort Collins, Colo., with her husband and two children. She is president of Solas Energy Consulting, a renewable energy consulting company specializing in commercial advisory services for utility-scale renewable energy projects.

**Neal Pann** (B.ARCH, 1993) is the co-host of an architectural podcast called Archispeak (archispeakpodcast.com). The show discusses architecture, what architects do, and why they are passionate about their profession.

**Jonathan Spears** (B.S., LA, 1993) founded Sage Design Studios Inc. in Las Vegas in 2000 and is working as a landscape architect on

Downtown Project properties. Spears created and taught Landscape Design with Trees at the Las Vegas Springs Preserve and has won more than 30 awards in the past 13 years.

**Edison Woo** (B.ARCH, 1993) moved to Beijing with his wife and child. He is a lead healthcare design architect for a state design institute.



**< Mark Perry** (B.ARCH, 1999) started an architectural firm in 2008 designing green buildings and renovating historic structures. He and his wife, Tracy, began construction on a home and office in Perry's hometown of Glen Ellen. Their first child is due March 2014.

## 00s >>>

**Michael Cook** (B.S., LA, 2001) received licensure in the State of Nevada in May 2013 after taking the supplemental state exam in late April.

**Anna Hoffman** (B.S., LA, 2001) married and recently returned from five years in London working in international hotel and resort design. She is opening a new office for Doyle Herman Design Associates in West Hollywood.



**< Alice Loh** (M.S., ARCH, 2003) was elected chairwoman of the Joint Rules Committee of the California Senior Legislature. In this position, she will advocate as a senior senator for older Americans.

She and her husband, Larry, also an emeritus faculty member, designed and built a classic Chinese park in downtown San Luis Obispo.

**Katie Knox** (B.ARCH, 2005) worked for LPAS until 2010, when she joined HGA Architects & Engineers. She was promoted to senior project coordinator while working on a 56,000-square-foot joint venture cancer center in Lancaster for the City of Hope Medical Group and Antelope Valley Hospital.

**Eric Lind** (ARCH, 2006) is proud to be part of ZETA Design+Build, a prefab manufacturer of mid-rise multifamily projects that recently completed a building containing 23 very small studio apartments as part of San Francisco's "micro-unit" movement.

**Hugo Martinez** (B.ARCH, 2006) works at Matter Architecture Practice in Brooklyn, N.Y. His latest project, The Cube, is a mobile sound booth

space for a collection of radio stores along the Hudson Valley and other areas in New York. Martinez frequently visits Cal Poly studios and classes as a guest critic.



**< Scott Chapelle** (B.S., CM, 2007) went to work for DPR Construction after graduation. After two remarkable projects at UC San Francisco and Lucile Packard Children's Hospital, Chapelle

was promoted to project manager. Last May, he married his best friend in a personal ceremony in Cayucos and honeymooned in Bali.

**Ben Londo** (B.S., CM, 2007) was national champion twice of the Cal Poly Rodeo Team prior to graduation. He ran a construction business for six years and has recently taken a job at Cal Poly as head rodeo coach. Londo just welcomed a baby boy!

**Devin Moreau** (B.ARCH, 2007) While working at two firms in Orange County, Moraueu obtained licensure, got married, and had two children. He followed his dreams of firm ownership and now works as a sole proprietor in Hermosa Beach.

**David Pearson** (B.ARCH, 2009) is working toward a post professional Master in Architecture II degree at Harvard University. He looks forward to meeting brilliant international students and has met a few Cal Poly alums!

## 10s >>>

**Gabriella Golik** (B.S., LA, 2010) completed her MBA at Cal State Fresno in May 2013 and works in Clovis for Broussard Associates Landscape Architects. In June, she traveled with Sister Cities Fresno as a delegate to Verona, Italy.

**Jaclyn Shor** (B.ARCH, 2010) began her career as a designer for Barry Berkus, who sadly passed away in December 2012. She now works for his son, Jeffrey Berkus, on projects at the B3 Architects offices in Santa Barbara and Aspen, Colo.

**Sloan Campi** (B.S., CRP, 2012) earned his emergency medical training basic license. He is a planner with the Town of Snowmass Village, Colo., and a resident firefighter/EMT for the Snowmass-Wildcat Fire Protection District. He finds serving the community to be a great start-up to his career as a planner.

**Email Us Your Class Notes!**  
*Please update your contact information at [alumni.calpoly.edu/info](mailto:alumni.calpoly.edu/info), and we'll send you an email reminder to send us your Class Notes for inclusion in next year's Connections. ■*



# THANK YOU!

*The College of Architecture & Environmental Design thanks alumni, parents, friends, foundations and corporations for their generous support. An honor role recognizing their gifts of \$1,000 or greater received during the fiscal year July 1, 2012, through June 30, 2013, is included in the printed version of this publication.*

*Our donors' generosity benefits facilities such as the Community Interdisciplinary Design Studio, which provides architecture Professor Tom Fowler (left) and his students with multidisciplinary linkages and practice-based connections to industry.*



# Save the Date

## CAED 2014 EVENTS

### Hearst Lecture Series | Winter

Jan. 24: John Ochsendorf | MIT engineering + architecture  
Feb. 7: Hitoshi Abe | UCLA, chair and professor of architecture  
Feb. 14: Kai Uwe Bergmann | Bjarke Ingels Group (BIG)  
Feb. 21: Craig Steely | Craig Steely Architecture  
March 7: Mark Sarkisian | SOM engineering

### Feb. 4-6

National Association of Home Builders Competition, Las Vegas,  
Construction Management Department

### Feb. 5-8

American Schools of Construction Regional Competition, Reno, Nev.,  
Construction Management Department

### Feb. 8

Structural Forum, Architectural Engineering Department:  
Engineers as Rock Stars | Keynote speaker Ashraf Habibullah,  
CEO, Computers and Structures Inc.

### March 10-14

ParaSite, Student Installations on the Architecture Building (No. 5),  
Architectural Engineering & Architecture departments

### March 14

Landscape Architecture Winter Show: Senior Speakeasy

### April 10-12

CAED Open House Student Exhibition and Design Village Competition

### May 23-25\*

Fifth-Year Architecture Show

### June 6\*

Landscape Architecture Spring Senior Show

### June 8\*

June Jubilee, A Tribute to Cal Poly's Retired  
Faculty and Staff, on campus

### June 15

CAED Commencement

### June 26\*

Alumni Social, AIA Convention, Chicago

See updates at [caed.calpoly.edu](http://caed.calpoly.edu).

\*Tentative dates

## RETIRED? CHECK OUT CAL POLY'S RETIRED FACULTY AND STAFF CLUB

EVERY YEAR, MANY FORMER FACULTY AND STAFF  
engage in the Cal Poly community and reconnect with  
fellow retirees through the Cal Poly Retired Faculty  
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aims to support this unique university, nurture lasting  
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campus, and advocate for Cal Poly to new generations  
of students. If you are a retired Cal Poly faculty or staff  
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To learn more, visit [cpretirees.org](http://cpretirees.org) or contact Gail  
Simmons at 805-462-9148 or [gsimmons@calpoly.edu](mailto:gsimmons@calpoly.edu).

*Students trek Poly Canyon to build structures  
for the annual Design Village Competition.*



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If you plan to include the College of Architecture & Environmental Design in your estate plans, please let us know. We would like to thank you.

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**CAL POLY**  
SAN LUIS OBISPO

College of Architecture  
& Environmental Design



# CAL POLY

## College of Architecture & Environmental Design

California Polytechnic State University  
San Luis Obispo, California 93407-0280



## Glowing Reviews

CAED PROGRAMS SHINE  
IN NATIONAL SPOTLIGHT

THE COLLEGE'S BACHELOR OF ARCHITECTURE PROGRAM rose to the No. 1 spot and landscape architecture to No. 4 in DesignIntelligence's latest rankings of the nation's top 20 architecture and design schools. Regionally both programs are "Best in the West" in preparing students for success in their professions in 2014.

Professionals that hire recent graduates also assessed specific skills acquired by alumni of both undergraduate and graduate programs and ranked Cal Poly's architecture program high in five of eight national categories and landscape architecture in four of six.

In addition, K. Richard Zweifel, associate dean of the college, and Brent Freeby, architecture lecturer, were recognized as among the nation's 30 Most Admired Educators for 2014.