

# AGRIcolumn

COLLEGE OF AGRICULTURE

FALL 2013

*Celebrating*

75

Years of Agriculture



CAL POLY POMONA

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## AGRIcolumn

AgriColumn Magazine, College of Agriculture

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## FROM THE DEAN



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We in the College of Agriculture are very excited about celebrating Cal Poly Pomona's 75th anniversary. We are very proud to be the founding college of the university from its humble beginnings of a few hundred "Aggies" at the Voorhis Campus to the 22,000 current undergraduate and graduate students who occupy our present campus of 1,400 acres on the Kellogg Ranch. I am also personally celebrating my fifth and final year as dean of the college and looking forward to retirement beginning September 2014. I must say it has been wonderful working with our dedicated faculty and staff who provide our students one of the best educational experiences in higher education. Looking back over my past 37 years of academic service to Cal Poly Pomona and the College of Agriculture, I find it most gratifying to look upon all the positive changes and advances this institution has gone through. The College of Agriculture has emerged over the past five years of nearly devastating budget cuts to become fiscally stronger, more program-focused and facing a much brighter future than when I took the position as dean in 2008. Our instructional farm budget is balanced, more sustainable and environmentally responsible while still providing students our signature hands-on experiential education. Our faculty have recently been awarded over \$1.2 million in USDA/HSI grants, nearly \$1 million in ARI matching fund grants and a new \$500,000 grant in Renewable Energy, Natural Resources and Environment from the federal government. We are over two-thirds of the way (\$18 million) toward meeting our comprehensive campaign goal of \$26 million in fund raising for the college. Our student population continues to grow—up 8 percent this year to over 1,800 students with over 500 new students joining us this fall. We have established collaborative partnerships with two major commodities: California citrus with the Citrus Research Board, and the California Avocado Commission, which has partnered with us in avocado research at our Pine Tree Ranch in Santa Paula. We are currently planting an additional 10 acres of wine grapes, made possible by a generous donation, to quadruple production of our award-winning label, Horsehill Vineyards wines. These are just some of the highlights attributed to our hard-working staff and faculty and to all of our supportive alumni and industry friends who make it possible for us to provide the best educational experience for the students we serve.

The College of Agriculture has been my home away from home for nearly four decades. I will miss being here and experiencing firsthand all the exciting future opportunities and new goals our college is poised to accomplish after this year. Like most of you, I look forward to looking in on "what's happening" with the College of Agriculture at Cal Poly Pomona by visiting our recently revised website at [www.csupomona.edu/~agri](http://www.csupomona.edu/~agri) for many years to come.

With warm regards,

Dr. Lester Young

DR. LISA KESSLER ACCEPTS NEW POSITION

On July 15, 2013, with the retirement of Dr. Doug Lewis, the College of Agriculture welcomed Dr. Lisa Kessler to the position of interim associate dean. Dr. Kessler came to Cal Poly Pomona in 2007, starting her service as an associate professor and director of the didactic program in dietetics in the Human Nutrition and Food Science Department. Dr. Kessler brings a wealth of experience to this interim position. Prior to joining the College of Agriculture, she worked overseas while accompanying her husband in the Foreign Service. She was dean of students at the American University in Dubai and director of health education at King Fahd Hospital in Jeddah, Saudi Arabia. She also served as an assistant professor at Intercollege in Larnaca, Cyprus, and as an adjunct faculty at the University of Vienna's Institute of Nutrition.

When asked what she enjoyed most about her field and the courses she has taught, Kessler said, "I really enjoy working with dietetic students since they are a dedicated and caring group of people. I am always impressed with their commitment to community service. I feel honored to help them achieve their goal of helping others with their health, so it gives me pleasure to help them achieve their career dreams."

Dr. Kessler also said she liked being able to solve a problem for a student. "I think of my own children, one who is currently a college student and another that just graduated from college, and I know how relieved they were when an issue was resolved [with the help of an advisor], so it makes me feel good to be able to relieve some student anxiety by helping with any problems. I also enjoy discussing career plans with students, since I find the dietetics and health field interesting and important."

Dr. Kessler became a registered dietitian and obtained a master of public health degree from the University of North Carolina at Chapel Hill in 1987. She received a doctor of public health degree from Johns Hopkins School of Hygiene and Public Health in 1994, where she published research on breastfeeding. Her more recent published work dealt with improving diversity in the field of dietetics through mentoring. Dr. Kessler was named the College of Agriculture Teacher of the Year in 2010 and Advisor of the Year for 2013.



Photo provided by HNFS Department

ESTUDIANTE DE DIETÉTICO

In June, 13 dietetic students completed the requirements for the Spanish Emphasis in Nutrition curriculum. This curriculum began in August 2009 with a three-year U.S. Department of Agriculture grant and recently finished its fourth year with funding from the College of Agriculture. Students take six additional one-unit courses in dietetics as it relates to Latino culture and become more fluent in Spanish as they learn Spanish words for medical and food terms. The students say the extra training helps them feel more confident interacting with the Latino community.

VISIT FROM ROYAL VETERINARY COLLEGE

For the first time, Cal Poly Pomona played host this year to the Royal Veterinary College (RVC) of the University of London as it interviewed candidates for its world-renowned program. The RVC, which has been conducting interviews on the West Coast for four years, interviewed more than 30 candidates at CPP in January. The RVC also hosted a reception for students who already had been accepted. Four of those accepted students are current students or graduates of the Animal and Veterinary Sciences Department at Cal Poly Pomona. Among the RVC faculty representatives conducting the interviews was Dr. Dan Brockman, a soft-tissue surgeon and CPP graduate who was the first person to perform open-heart valve surgery on a cat using a heart/lung machine bypass; Dr. Vicky Lipscomb, a board-certified soft tissue surgical specialist; Dr. Rob Fowkes, a faculty scientist; and Dr. Raymond Machaira, a biomedical scientist.

SHEEP UNIT DONATES WOOL

The Cal Poly Pomona Sheep Unit donated more than 300 pounds of wool in the 2012/13 year to Wool for Worthy Causes. This nonprofit organization, based in Ojai, educates children in 4-H and Future Farmers of America about the excitement of science and technology, using the wool they grow as an entry point to get them thinking beyond agriculture as a sheep grower and spurring them to pursue fresh ideas. The wool is transported to Montana where it is cleaned, and then it is donated to provide jobs for adults with disabilities who work at the nonprofit sewing company at the Alabama Institute for Deaf and Blind. This 105-year-old institution converts the clean wool into blankets and makes them available at their true cost. These blankets will be used by the Veterans Administration, shelters for battered women, and the U.S. military. Some of the wool also is used in leading-edge technology research at the U.S. Department of Agriculture and at college campuses seeking new applications for wool in locations across the nation.



Dr. Jim Alderson guides the visiting Chinese delegation around the Arabian Horse Center.

INTERNATIONAL EXCHANGE

The College of Agriculture's Animal Health Science program played host to a 16-member Chinese delegation interested in learning more about controlling animal diseases and veterinarian teaching methods.

According to Jorge Salazar, a representative for Infinity Medical Consulting, the company that arranged the visit, "They're on a fact-finding mission to better understand our handling of food products, disease control and pet relationships."

The group toured the W.K. Kellogg Arabian Horse Center and the Equine Research Center and visited AGRIsclapes, where Dr. Oscar Chavez, an assistant professor and director of animal health science, made a presentation about Cal Poly Pomona's Animal Health Sciences program.

The four-year program, established in 2004, trains students to become registered veterinary technicians capable of taking X-rays and performing other tests of animals, preparing them for surgery, administering anesthesia and closing wounds. It is a career track for many students who want to work with animals but cannot afford the increasing cost of attending veterinary schools.

The delegation peppered Chavez and other college officials with questions about the veterinary technician program and its entrance requirements, animal vaccinations, and treating and controlling animal diseases.

Hongyuan Qian, the head of the delegation and vice director of the Chinese Agricultural Ministry's Animal Disease Control Center in Beijing, said he appreciated seeing the facilities and equipment and hearing about a curriculum that combines both theory and practice.



A student at 99th Street Elementary School in Los Angeles pets a goat at Danny's Farm.

## KIDS DISCOVER THEIR INNER FARMERS

Dozens of inner-city children got a taste of rural life this year on a field trip to Danny's Farm on the Cal Poly Pomona campus.

In February 2013, the entire third-grade class of 99th Street Elementary School in Watts, about 90 students, visited the farm, which provides a petting zoo and lessons about agriculture to disadvantaged youths.

The students learned firsthand about farm animals they had never seen in real life and received invaluable lessons about healthy eating habits and agriculture. In fact, to everyone's surprise, they couldn't get enough fresh broccoli! Danny's Farm received rave reviews from all the students, who were able to escape their often negative environment in Watts to safely enjoy the sights and sounds of a new experience.

The field trip was organized by the I Have A Dream Foundation – Los Angeles, which partners with underperforming schools in impoverished neighborhoods. The foundation adopts an entire grade level of children and conducts a comprehensive after-school and summer program aimed at increasing academic proficiency and improving emotional and physical health with the ultimate goal of college attendance for every student.

IHADLA serves 297 students in four active program sites, which were chosen across Los Angeles to ensure the most widespread impact possible. The number of children and adults positively affected by IHADLA is far greater than just the number of Dreamers, because the programs also have an impact on parents, siblings, peers, and community members.

## AGRICOLUMN GETS AN UPDATE

By Professor Babette Mayor

This story began with a phone call and ended with a magazine, a poster series and a whole lot of hands-on experience for the graphic design majors in my Art 452 class, a senior-level course where students learn criteria for good design and the importance of conceptual development and originality. This story is another great example of Cal Poly Pomona's learn-by-doing philosophy.

The actual assignment consisted of two parts. The first was the redesign of the AgriColumn magazine and masthead in a way that showcased the activities of the College of Agriculture, visually promoting its transformation from a small production college to a more modern, urban, inclusive College of Agriculture. The second part of the assignment was to write and design a poster series (three variations) that dealt with some aspect of the college's uniqueness, progress, 75th anniversary, and/or agricultural issues in general.

The first step in the design process was to reevaluate the masthead, which is the magazine name or logo. I lectured on some of the most successful magazines in history and talked about their mastheads in terms of meaning and visual identity.

Once a masthead was created, students designed several covers in an attempt to set the tone for the rest of the magazine. Students used their photos, taken during campus walkabouts, as well as classic agriculture photos found in the Cal Poly archives. Students went on to design the first 12 pages of their prototype, establishing a grid, typographic treatment and the overall look. The final step was creating a poster series and presenting the whole package, fulfilling Cal Poly's learn-by-doing methodology.

The magazine you are reading today was art directed by recent graphic design graduate Megan McGowan. Runners-up for excellence in magazine design included Andrea Garcia, Eun Ha, Maggie Lu, Lauren Schaumann, and Erick Torres. Both Megan and Christopher Arellano were selected for their unique poster designs. Finally, Desiree Holloway, Maggie Lu and Ashley Messineo were acknowledged for their amazing photography.

You might say this was a lot of work for a 10-week course, and it really was. But the stunning results were well worth the effort.

## TINY WASP ENLISTED IN FIGHT AGAINST DANGEROUS CITRUS PEST

By Valerie Mellano, Ph.D., Chair and Professor, Plant Science Department

The Asian citrus psyllid is a small insect that feeds on the leaves and stems of citrus trees. The insect is extremely dangerous because it can transmit a disease that is fatal for citrus. The deadly bacterial disease, called Huanglongbing (HLB) or citrus greening disease, has devastated the citrus industry in Florida and other locations around the world. It recently has been found in Southern California, putting all commercial and backyard citrus trees at risk. Once a tree is infected with HLB, there is no cure and the tree will die. The best way to prevent the disease from killing citrus trees is to stop the psyllid.

A tiny wasp, *Tamarixia*, has been tested and found to be effective at parasitizing and killing the Asian citrus psyllid. This wasp will be released throughout the citrus growing areas of Southern California as a biological control method. Students and faculty in the Plant Science Department at Cal Poly Pomona have been working with the California Department of Food and Agriculture, the Citrus Research Board, and the U.S. Department of Agriculture on the CPP campus to fight the psyllid. Several students were employed full time during the summer to assist in rearing the wasp

and in running field and greenhouse experiments that will help develop the most effective ways to control the pest.

Since Cal Poly Pomona is in the area infested by the Asian citrus psyllid, it is an ideal place to conduct research. The Citrus Research Board has agreed to construct a research greenhouse on campus and provide research funding, and the California State University Agricultural Research Institute is providing matching research funding, allowing work on this important project to continue for several years. There will be numerous undergraduate and graduate student assistantships provided by this research.

Funding and support for this program is provided by the Citrus Research Board, the California Department of Food and Agriculture, the CSU Agricultural Research Institute and the U.S. Department of Agriculture.



John Bennett and Jed Ball are two senior plant science students working on the study.



Photo by Maya Kerbage

Dietetic Interns attend class at WIC in Pomona.

## 26 YEARS OF THE DIETETIC INTERNSHIP PROGRAM

Cal Poly Pomona's Dietetic Internship program marks its 26th year this fall. The program is part of the Department of Human Nutrition and Food Science, one of four departments in the College of Agriculture.

The Dietetic Internship is a full-time post-baccalaureate certificate program that only admits students who have completed an accredited Didactic Program in Dietetics. The program's five-year pass rate for the registered dietitian exam has always exceeded the minimum rate of 80 percent set by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). The dietetic internship graduates are consistently cited as being well-prepared for the work force by their employers on annual evaluation surveys. More than 290 registered dietitians have completed the program since its inception in 1987.

Dr. Kara Freeman founded the program and directed it for more than 24 years. After her retirement in March 2012, Dr.



Dr. Sharonda Wallace

Sharonda Wallace, associate professor was appointed as the new director. Before joining Cal Poly Pomona more than six years ago, Dr. Wallace was director of the Dietetic Internship program at San Francisco State University. Additionally, from 2010 to 2012, Dr. Wallace served on the Dietetic Internship Selection Committee, and from fall 2011 to winter 2012, she was associate director of the program.

In June 2013, Dr. Wallace completed her first full year as internship director, successfully graduating 15 interns from the program. In addition, she led the Dietetic Internship reaccreditation process and made critical program modifications to comply with new 2012 curriculum standards mandated by ACEND. Examples of enhancements to the program included adding a medical nutrition therapy concentration and increasing the program length from 1,060 to 1,208 hours of supervised practice.

“Cal Poly Pomona’s dietetic internship did not disappoint,” intern Lilibeth Katigbak said. “I was exposed to a variety of nutrition-related fields and even got to spend additional weeks in clinical nutrition practice since the program’s new concentration of medical nutrition therapy was implemented during my internship year.”

A key component of the Dietetic Internship program is the learn-by-doing experience interns receive in the field

through the supervised work experience. Cal Poly Pomona dietetic interns complete more than 1,200 hours of supervised experience throughout the greater Los Angeles area and Bakersfield. Currently, internship affiliates and partners include 13 hospital sites, four school district sites, six renal healthcare facilities, three skilled nursing facilities, three community colleges, three Head Start sites and three public health departments.

Some of the community partners include Pomona Valley Hospital, San Antonio Community Hospital, Hoag Hospital, Mission Hospital, Harbor-UCLA Medical Center, Kern Medical Center, St. Bernardine Medical Center, San Bernardino Community Hospital, Los Alamitos Medical Center, City of Hope Hospital, St. Jude Medical Center, Queen of the Valley Hospital and Citrus Valley Health Partners. Many of the preceptors and community partners have been with the program for more than 20 years. The longstanding relationship with community partners and preceptors was recently praised by ACEND during the recent reaccreditation visit as being one of the program’s key strengths. The program also promotes a spirit of service and encourages alumni to become future preceptors once they are established in their careers.

Intern Claire Rawls said, “The Dietetic Internship was harder than getting my master’s in nutrition and dietetics. While it was a challenge, there was a tremendous amount of support from Dr. Wallace and all the preceptors.”

“The Dietetic Internship changed the course of my life,” Janelle Commins said. “Doors that were not open to me . . . have swung open, and now I know what’s behind those closed doors.”

FUTURE LEADERS EXPLORE AG POLICY-MAKING IN CALIFORNIA

In fall quarter 2012, 11 seniors from six majors experienced a novel approach to leadership development in a special topics seminar taught by Professor Joyce Jong of Agribusiness and Food Industry Management and Dr. Peggy Perry of Plant Science. Through mentoring and coaching, participants focused on their personal leadership development skills and awareness while examining the roles of leadership in the organizational and regulatory systems involved in California food and agriculture. The seminar culminated in a field trip to Sacramento.

The overarching theme of the class was the role of stakeholders in California agriculture. By examining

recent events such as the E. coli outbreak in spinach production and the passage of Proposition 2, which affects poultry production, students learned to identify the different voices in policy debates and how they influence outcomes. Guest speakers A.G. Kawamura, former California secretary of agriculture, and Leslie Leavens and John Krist of the Ventura Ag Futures Alliance, gave firsthand accounts of collaboration with stakeholders to address pressing local and state issues. Rebecca Tsaour, human nutrition major, said, “I learned the meaning and importance of stakeholders.”

Another aspect of the course that had great impact was the Myers-Briggs Type Indicator assessment, the most widely used personality inventory. Each student received one-on-one feedback about the results that included areas for growth and development. Greg Anchondo, FMA major, said the MBTI assessment “showed me how and why I think the way I do in certain situations.” Students also were taped giving short presentations and given public speaking feedback.

Accompanied by George Soares, managing partner at Kahn, Soares & Conway, and Dale Stern, partner at Downey Brand, students took a day and a half field trip to Sacramento in late November. Students met with governmental relations experts, commodity organization representatives and advocacy organizations, and visited a farm in the Sacramento Delta region that would be heavily impacted by proposed solutions to water issues in the area. A highlight of the visit was the one-hour meeting with Secretary of Agriculture Karen Ross in which she fielded questions from the group. Small groups within the class selected topics to explore and present to an expert panel at the California Farm Bureau in Sacramento. Seeing issues from various viewpoints was an important goal of the visit. “Being able to hear from both the lobbyists and a farmer regarding the delta . . . really put the issue into perspective,” observed Skylar Matthews, animal and veterinary sciences major.

Having so many different majors represented in the class—food science and technology, animal and veterinary sciences, plant science, human nutrition, agricultural science, and food marketing and agribusiness management—allowed students to share their expertise and learn from others.

College of Agriculture Dean Les Young would like to see the course become an annual offering so that select Cal Poly Pomona agriculture students are well-prepared for leadership roles in food and agriculture.



Friends gather at the 70th celebration in 2008.

AG 75<sup>th</sup> CELEBRATION THIS SPRING

College of Agriculture faculty, staff, alumni, students and friends will come together on May 3, 2014, to celebrate 75 years. A day of festivities is planned, including a barbecue dinner, special acknowledgment of our Voorhis alumni, greenhouse tours, entertainment, livestock and Arabian horse showcase, and much more.

Folks will have the opportunity to reconnect with old friends and acquaintances and also hear about current activities and projects from Dean Lester Young. We are still in the planning stages, but more information will be coming soon.

A website has been developed to keep people informed and updated on the event. Although registration is not being accepted at this time, information will be uploaded to the website when available. For more information, see page 35 of this publication or visit [www.celebratecppag.com](http://www.celebratecppag.com).



Eleven seniors topped off their ag policy seminar with a field trip to Sacramento.



Kathy Zell, Wayne Bidlack (former agriculture dean) and Don Huntley visit at the 70th celebration.

# GMOs

## and other scary words

by Dr. David Still, Plant Science Department

When was the last time you ate a good bowl of weeds for breakfast or spent the day gathering seeds for your evening meal? Outside of a few people who have gone through Survival, Evasion, Resistance and Escape (SERE) training with the U.S. military, I would guess never! If you are not eating weeds, you are eating genetically modified organisms (GMOs). Most of us have heard about GMOs and probably have formed an opinion about them without understanding the technology or the risks associated with them. To put things into perspective, virtually every vegetable, fruit and grain you have ever eaten was domesticated thousands of years ago. As the field of genetics was developed over the last century, its practical applications were soon understood and used to improve crops that were subjected to intense breeding efforts to increase productivity, develop disease resistance and facilitate commercial production and global transportation.

During the process of domestication, thousands of genes were altered from their natural state, and subsequently, many of our crops do not resemble their wild progenitors. In many instances, you would not recognize them. Similarly, when breeders make a cross between plants, each plant from the cross contains thousands of shuffled genes. The vast majority of these plants will not be agriculturally useful, so they are discarded. A few lucky plants will be good enough, and those eventually make it to the market. After thinking this through, you have probably concluded, "Gee, after going through domestication and breeding, we must have lost a lot of genetic diversity," and you would be correct. Your next thought must have been, "Gee, this could cause all sorts of problems," and again, you would be correct. Just as corporate mergers may lead to an increase in efficiency,

they often do so at the cost of losing diversity. In agriculture, breeding has led to varieties that perform very well in the proper environments but not so well when challenged with a poor or stressful environment. Extreme weather events, like more frequent and severe droughts, and conversely, torrential downpours, are associated with climate change, and this represents a new challenge for crop breeders.

Agriculture can be thought of as a derived ecosystem subject to the same laws of nature as a natural ecosystem. Large monocultures, limited genetic diversity and global climate change affect the ability of the plant to survive diseases, insects and environmental stress. Through various means, any disease or insect found on a crop in one part of the world will eventually affect that crop throughout its entire range.

Some of the problems are serious enough that in the future you may go to the store and ask, "What, no oranges? No California wine? No bananas? No papayas?" And the list goes on. Plants, like humans, succumb to diseases caused by bacteria, fungi and viruses. The first step in finding a "cure" is to search for plants that show some immunity to the disease. For example, the wine industry in Southern California has been devastated by Pierce's disease, and grapes of Central and Northern California are threatened by this disease, caused by a bacterium transmitted by an insect called the glassy-winged sharpshooter. The cure? None. No rootstock has been found with immunity to the disease. Likewise, the orange industry is threatened by a disease called citrus greening, again caused by a bacterium. The cure? None. A worldwide search for a tree with immunity turned up none.

In both of these cases the short-term solutions to these problems include reducing the numbers of insect vectors spreading the disease by using various methods including biological control. To that end, the Agriculture Research Institute (ARI) is providing funding to Dr. Valerie Mellano (Department Chair, Plant Sciences) for a three-year study to optimize the production of a parasitic wasp that will control the insect vector, a psyllid. These ARI funds leverage funding and resources from the California Citrus Research Board pledged toward this project, including building rearing and testing facilities on the Cal Poly Pomona campus.

Biological control strategies capitalize on the natural parasitic tendencies of the wasp but will not eliminate the insect and subsequently may not be a suitable long-term solution. Florida, the nation's leading citrus producer, already has suffered devastating losses from citrus greening. The growers there have chosen to fight the disease using a different approach, biotechnology. Their strategy is to introduce a gene into orange trees that would attack the bacteria itself, ignoring the insect vector. This will work if there exists, in nature, a gene that can kill bacteria, and it turns out that there is. The candidate gene sources include two vegetables, a virus, and a pig. A synthetic gene (new to nature) was also tested in the laboratory. If the citrus industry is to survive, there is a distinct possibility that biotechnology, using recombinant DNA technology, will be its lifeline.

Tinkering with food crops has long been controversial. One such technology that produced "new to nature" plants was quite controversial in its day. Grafting, the process by which two plant tissues are joined together and subsequently grow, for example, has been around for at least 4,000 years. Yet, it was once seen as a form of magic. It, too, had its supporters and detractors. Andrew Marvell wrote that "he grafts upon the wild the tame / that the uncertain adulterate fruit / might put the palate in dispute." Shakespeare, on the other hand, took the view that grafting was natural: "Yet Nature is made better by no mean / But Nature makes that mean. So, over that art / Why you say adds to Nature, is an art / That Nature makes . . . This is an art / Which does mend Nature – change it rather, but / The art itself is nature."

Few technologies have stirred up as much controversy as biotech food crops. Transgenic crops have been on the market since 1994, starting with the Flavr Savr tomato. Each year, hundreds of millions of acres of transgenic corn, cotton and soybeans are planted. Other crops available or soon to be available include apples, squash, tomatoes, papayas, rice and cassava. There is no evidence that any transgenic crop has harmed humans, and the data indicate they have minimized the environmental impact of agriculture. In addition to traits that aid in growing the plant with less pesticides and water, biotech plants have

been engineered to improve human health. Indeed, rice has been transgenically fortified to produce beta-carotene, the precursor to vitamin A, which will help alleviate this vitamin deficiency in literally millions of people worldwide. Clinical trials will soon be underway to test the effectiveness of a rice engineered to deliver a vaccine to control a rotavirus that induces a diarrheal disease that kills about 600,000 children each year.



Photo by the International Rice Research Institute  
Golden rice (top), a biotech crop fortified with beta-carotene, has the potential to provide vitamin A for millions.

In California, strawberry crops were regularly fumigated with methyl bromide, but due to its effects on the environment, this fumigant is scheduled to be phased out. An alternative to fumigants is to engineer plants to use the biology of the plant to ward off the pests that were controlled by methyl bromide. The ARI is funding a project in which this concept is being tested. Dr. Craig LaMunyon (Professor, Department of Biology) leads a team that is manipulating the model plant *Arabidopsis* to ward off root knot nematodes. If successful during these pilot studies, this approach may be transferred to other crops. The engineered plants will have healthier and more robust root systems while at the same time eliminating or reducing the need for soil fumigation.

It is important to note there are no corners left on this Earth that have not been altered by human activity; no natural ecosystems have been left intact. Agriculture, unfortunately, has an environmental impact. To this point, biotechnology has had no part in contributing to the demise of the natural ecosystems. The question consumers will be asking, perhaps with increasing frequency, is: are we willing to forgo California wine, orange juice, bananas and papayas because they are transgenic? It is the overwhelming consensus of the nation's scientists, including the National Academies, and the editors of every leading scientific journal, that biotechnology is safe for the environment, animals and people. Biotechnology is not the entire answer, but it certainly offers one tool, among many, that may allow us to put off such questions.

# *Celebrating*

# 75

Years of Agriculture



THE COLLEGE CELEBRATES 75 YEARS AS ITS DIVERSE PROGRAMS CONTINUE TO GROW

Plant Science is  
the founding  
department of the  
College of Agriculture  
and Cal Poly Pomona

by Dan Hostetler  
Professor, Plant Science Department

The Plant Science Department can trace its beginnings to the founding of the university. In fall 1938, when the Voorhis campus in San Dimas opened as a southern branch of Cal Poly San Luis Obispo, the majors of ag services and inspection (today's program in agricultural biology) and subtropical horticulture (today's program in fruit industries) were transferred to San Dimas from San Luis Obispo. In addition, a major in ornamental horticulture was offered, while the same major continued at Cal Poly San Luis Obispo.

Life on the Voorhis campus in the late 1940s and early 1950s was very bucolic. In the mid-1950s, enrollment began to grow by leaps and bounds. Almost all the students lived on campus in small dorms, and there was definitely a "family" atmosphere, as many faculty and staff also lived on the grounds. The campus is only one mile away from today's Kellogg campus, or nine miles by road at the end of Valley Center Road in San Dimas. Prior to the building boom of the 1920s, it was surrounded by beautiful hills and citrus and avocado groves.

Above: Oliver "Jolly" Batcheller, right, was the founding chairman of the Ornamental Horticulture Department.



World War II forced the closure of the campus from 1943 to 1945. After it was reopened in 1946, each department had a departmental chair/coordinator responsible for the administration and curriculum of its program until 1968. At that point, three distinct departments were formed. The first was the Plant and Soil Science Department, encompassing the majors of agronomy, fruit industries, soil science and agricultural biology (formally services and inspection).

The second department was Ornamental Horticulture, which included all aspects of horticulture, and eventually encompassed a second major of park administration. The third department, Agricultural Engineering, was later renamed Landscape Irrigation Science due to the new emphasis areas of irrigation and water management in the urban sector.

The format of three distinct departments continued until 1992, when Ornamental Horticulture/Park Administration and Plant and Soil Science became administered by one department chairman, Dan Hostetler, and renamed Horticulture/Plant and Soil Science. All majors remained intact, but the faculty worked toward delivering a somewhat common core. Most importantly, curriculum changes opened emphasis areas that gave students a greater choice of elective courses focused on career paths such as turfgrass management, nursery management, landscape management, crop production, crop science and many others.

Left: Students repair a tractor at Cal Poly Pomona.

In 2008-09, the Chancellor's Office mandated a reduction in units from 198 to 180 for graduation, due to the high number of seniors in the CSU system. This was a time of tight budgets and threats of program closures for low-enrollment programs, which included many departmental majors. One of those was landscape irrigation science, which, because of its close ties to soils and horticulture, was also absorbed by the department.

With adequate enrollment in other majors when combined, the faculty voted (somewhat reluctantly) to become the Plant Science Department, collapsing all majors into one plant science major. A common core of courses was initiated that had similarities to all majors. The cuts in units came out of courses that were directed electives, from 40 units to about 24 units today.

Today, all students graduate with a degree in plant science but have the ability to minor in a discipline of horticulture, agronomy, pest management, irrigation science or soil science, which seems to be acceptable to the industry. Students can use their 24 units of directed electives to take units in chemistry, math, and biology/botany to fulfill prerequisites for a graduate program.

The Agribusiness and Food Industry Management program evolved from the Agricultural Business Management Department when it was established in 1959. The department ties together the technical departments in the College of Agriculture, such as Animal and Veterinary

Sciences, Human Nutrition and Food Science, Plant Science, and Apparel Merchandising and Management. This is the only such program in Southern California. Graduates manage both agricultural and non-agricultural firms throughout the state, with an emphasis on the Imperial and San Joaquin valleys and the greater Los Angeles area.

In fall 2012, Hostetler stepped down as department chairman and resumed his teaching and farm management. Following a national search, Dr. Valerie Mellano was named chair.

Most of the acreage surrounding the original Voorhis campus was hilly and marginal for general crops, but good for citrus and avocado production.

When the campus was moved to the Kellogg ranch in 1956, much of the site was flat, which aided the expansion of a general crops program. By this time, work was beginning on Building 3 (today's Science Building), which housed many of the original faculty offices and classrooms.

The Kellogg campus came with some original barns (including the old horse unit), residences (which served as dorms), and structures that were initially utilized. Many of today's structures used by the department were built from 1955 to 1970.

In 1953, Cal Poly Pomona secured 127 acres of extremely high-quality farmland, Spadra Ranch, located between the

## *Take a look into the past...*

**1932**

BREAKFAST FOOD MAGNATE W.K. KELLOGG DONATES HIS LAND, 87 HORSES AND A \$600,000 ENDOWMENT TO THE STATE.

**1938**

THE VOORHIS UNIT OF CAL POLY OPENS IN SAN DIMAS; THE COLLEGE OFFERS MAJORS IN AGRICULTURAL INSPECTION, CITRICULTURE, DECIDUOUS FRUITS AND LANDSCAPE GARDENING.

**1946**

THE LOS RANCHEROS AND LOS ROBLES CLUBS ARE CHARTERED. HAROLD WILSON IS APPOINTED DEAN OF AGRICULTURE.

**1949**

THE KELLOGG RANCH BECOMES PART OF THE KELLOGG VOORHIS UNIT OF CAL POLY.

**1950**

THE FIRST AGRICULTURAL FIELD DAY FOR FFA STUDENTS IS HELD.

**1952**

PRESIDENT JULIAN MCPHEE RECOMMENDS AN ANIMAL INDUSTRY PROGRAM, AND THE ANIMAL AND VETERINARY SCIENCES DEPARTMENT IS BORN.

THE 127-ACRE SPADRA RANCH BECOMES PART OF THE CAMPUS.

FACULTY, STAFF AND STUDENTS BEGIN THE MOVE FROM THE VOORHIS CAMPUS IN SAN DIMAS TO THE CURRENT CAL POLY POMONA CAMPUS.

THE FIRST COMMENCEMENT ON CAMPUS, HELD IN THE ROSE GARDEN, HAS 57 AGRICULTURE MAJORS.

THE AGRICULTURAL ENGINEERING BUILDING (45) OPENS ITS DOORS.

THE CALIFORNIA EDUCATION FOUNDATION, FUNDED BY THE J.G. BOSWELL FOUNDATION, IS FORMED, PROVIDING A TWO-YEAR LEADERSHIP PROGRAM FOR STUDENTS.

THE COLLEGE OF AGRICULTURE’S BUILDING 2 OPENS ITS DOORS.

two forks of San Jose Creek near the Pacific Colony (today’s Lanterman State Hospital).

In 1975, Carl Wasmendorf donated his 53-acre citrus and avocado ranch in Santa Paula to the university. The ranch still grows coastal lemons marketed through Limoneira, avocados marketed through Calavo Growers, and Valencia oranges, which are used for juice at the Farm Store. Many students have interned at the ranch over the years to gain industry experience. In 2013, an agreement was reached with the California Avocado Commission to provide 11 acres to its research division.

When Hostetler became department chairman in 1992, a group of seven faculty members took a road trip to the East Coast to study a “new concept” called sustainable agriculture. Many of the tour stops focused on demonstrations and plots that the group thought would be perfect for the newly combined departments of Horticulture and Plant Science. On a grassy knoll at the Rodale Farm in Pennsylvania, the idea of an educational center to be known as AGRIsclapes was born.

The plan came to fruition in 1998 when the Los Angeles County Sanitation District closed the Spadra Landfill and gave the university \$5.1 million in return for the land and the building of this new educational center. In 2001,

AGRIsclapes opened its doors with a new Farm Store, classrooms, educational exhibit, theater, recycling education center and office space.

Phase two of AGRIsclapes was realized in 2008 when university President J. Michael Ortiz allotted \$1.3 million for construction of greenhouses to move the Horticulture Nursery from the original location near the Rose Garden to AGRIsclapes. This funding was made available via the Union Pacific Railroad, which ran a high-speed connector track between the north and south portions of the Spadra Ranch. Surplus funding also bought new equipment for the recent acquisition of the Westwind Ranch in Chino.

Today, the modern nursery is the home for retail nursery operations outside of the Farm Store and supports many horticulture classes. More than 8,000 square feet of indoor hydroponic production exists along with several acres of outdoor operations. The next phase of AGRIsclapes includes a food pilot plant and associated facilities for the Human Nutrition and Food Science Department. This will complete the building complex and allow visitors to observe plant agriculture from field to product (via this facility) to the store and to the plate.

In 2005, Cal Poly Pomona entered an agreement with the California Department of Corrections for the use of 1,100 acres of prime farmland around the California Institution for Men in Chino. With the loss of farmland due to campus construction, the Westwind Ranch provides much needed space for classes, laboratories, and most importantly, student projects. Many of the field crops needed for our livestock are produced here, along with crops for the local dairy community.

The number of students enrolled in the Plant Science curriculum continues to climb, and the opportunities for new educational experiences are also growing. We have recently created a working partnership with the Citrus Research Board, the California Department of Food and Agriculture and the U.S. Department of Agriculture to conduct research on the Asian citrus psyllid. Several undergraduate and graduate students will be employed to work on this project for the next few years. The Citrus Research Board is funding the construction of a new greenhouse on campus where some of this research will take place.

We are also developing a working relationship with the California Avocado Commission and will have several students working on projects pertinent to the avocado industry.

We recently established an advisory committee for the turf,

irrigation and landscape program in Plant Science to provide opportunities for industry personnel to have input into the programs we offer. This is an area we plan to expand within our curriculum and to grow in student numbers. We are also upgrading our turf facilities, thanks to many donations from our industry partners.

The department also will be filling a faculty position this year for a professor of urban agriculture for students who want to pursue this discipline and also to meet the needs of Southern California communities with an interest in sustainable urban farming.

In addition, we will be starting a master of science in applied agriculture degree in fall 2014. This program is being designed to increase the knowledge of working professionals in the agriculture and landscape industries and also those who wish to pursue agricultural research as a career.

John Bennett, a senior plant science major, is involved in research on the Asian citrus psyllid.





The Animal and Veterinary Sciences Department filled an industry need in the 1950s and trains a new breed of students today

by Dr. Broc Sandelin  
Chairman, AVS Department

Above: President Julian McPhee and the Polyvue Court pose with a cow in 1957.

The beginnings of the Animal and Veterinary Sciences Department can be traced back to January 1952. That was when a council delivered a report to Cal Poly President Julian McPhee recommending the development of an animal industry program at the university's Kellogg-Voorhis campus.

The program began in fall of that year with an enrollment of 76 students. It was a two-year curriculum; if students wanted to continue their education, they would have to complete an additional two years at the main San Luis Obispo campus. Prior to 1952, the School of Agriculture on the Voorhis campus offered three animal husbandry courses: Feeds and Feeding, Introduction to Animal Science, and Elements of Dairying. The Animal and Veterinary Sciences Department wasn't officially recognized until 1952, when Weslie Combs was hired as the first animal science faculty member.

During the early years, the animal lectures were offered on the Voorhis campus and the laboratories were held on the Kellogg

campus farm. This campus was created from cereal magnate W.K. Kellogg's Arabian horse ranch, which was obtained by Cal Poly in 1949. The first classroom building was completed on the Kellogg campus in 1956, and since then, all animal science classes have been taught on the Kellogg campus. The farm buildings used for the animal science livestock were structures that remained from the pre-World War II Kellogg ranch or that were built by the U.S. Army when Kellogg donated the ranch to the military to be used as an Army remount station.

The establishment of the animal science program was in response to a community need. In 1952, there were no occupationally centered collegiate programs in animal husbandry. At the time, southern California had a quarter-billion-dollar animal industry. Cal Poly's Kellogg-Voorhis campus was surrounded by an extensive dry lot feeding industry, as well as a rapidly expanding cattle industry in the Imperial and Coachella valleys. In 1952, more than half of the students attending Cal Poly Pomona were interested in animal husbandry, and many of these students were prospective agricultural teachers who needed animal husbandry courses. It was thought that the addition of animal husbandry would bolster enrollment at the Kellogg-Voorhis campus and relieve the pressure on the animal husbandry program at San Luis Obispo.

The original objectives were to allow students to obtain training in the production, management and marketing phases of beef cattle, horses, sheep and swine enterprises. Livestock feeding and marketing, meat packing and vocational agriculture training were included in this curriculum. The first commencement exercise was held at the campus in 1957.

The original faculty aimed to train students by using projects systems and the practical nature of course work to carry out the learn-by-doing philosophy of the college. This attitude encouraged students to be involved in business projects using beef cattle and sheep. The bachelor of science curriculum quickly expanded from the original G.E. and three animal husbandry courses to introductory and advanced animal production. Included were courses in bacteriology and livestock judging.

As the number of students increased from the original 76 to 711 in 1976, the number of faculty grew to about 15 positions and included faculty members who had expanded their education from master of science training to doctorates or doctor of veterinary medicine degrees. As the faculty knowledge base increased with specializations in genetics, reproduction and nutrition, the graduate program for the master of science in agriculture with a specialty in animal science was approved by the California State University chancellor in 1975.

Today, the face of the department has changed. While it still has the livestock units and they are still a vital part of the curriculum, the focus has shifted primarily to educating students with an interest in companion animals. In the 1950s, the student population was strictly male, and today the overwhelming enrollment is female. More female veterinarians are in the work force than ever before. Veterinary technicians are working side by side with their doctors, becoming important members of the animal health care team. The future of animal and veterinary science is unlimited. Students can major in marketing, education, or animal health technology. Students heading to veterinary school can get their introductory pre-vet work done at Cal Poly Pomona. Nutrition, on both the animal and human sides, is an option. Biochemistry, cell and molecular biology, and neuroscience courses are now commonly offered, where once they were considered quite advanced and specialized.

The students are also a new breed. They are no longer focused primarily on farm animal production, and can pursue many diverse educational opportunities. The pet industry is booming and the majority of our students are interested in this field of study. Nutrition, pharmaceutical and biotechnology companies are demanding our students for their knowledge and experience due to our hand-on learning approach to education.

With everything so specialized now, Cal Poly Pomona will rise to this challenge, finding new and exciting ways to educate, train and prepare its students for the new face of agriculture.

1965

THE FOODS AND NUTRITION DEPARTMENT IS FOUNDED WITH RAMIRO DUTRA AS DEPARTMENT CHAIRMAN.

1968

THE PLANT AND SOIL SCIENCE DEPARTMENT IS FORMED WITH ROBERT PROCSAL AS CHAIRMAN.

1970

BUILDING 7 IS COMPLETED, CREATING NEW FACILITIES FOR THE FOODS AND NUTRITION DEPARTMENT, INCLUDING A FOOD CHEMISTRY LAB, KITCHENS AND OFFICE SPACE.

1975

THE 53-ACRE PINE TREE RANCH IS DONATED TO THE UNIVERSITY.

1983

CROPS JUDGING TEAM BECOMES NATIONAL CHAMPIONS AT THE NACTA JUDGING CONFERENCE, MATTOON, ILLINOIS.

1987

THE FOODS AND NUTRITION DEPARTMENT BEGINS OFFERING ACCREDITED DIETETIC INTERNSHIP PROGRAM.

THE SCHOOL OF AGRICULTURE  
ATTAINS COLLEGE STATUS.

THE APPAREL TECHNOLOGY AND  
RESEARCH CENTER IS ESTABLISHED  
WITH JEAN GIPE AS DIRECTOR.

THE COLLEGE HOSTS ITS FIRST  
PUMPKIN FESTIVAL; TODAY, OVER  
60,000 PEOPLE ATTEND.

THE AGRICULTURAL RESEARCH  
INSTITUTE IS ESTABLISHED, AND THE  
FOOD SCIENCE AND TECHNOLOGY  
PROGRAM IS FOUNDED.

ELIZABETH TRACY IS NAMED  
CHAIRMAN OF THE NEW APPAREL  
MERCHANDISING AND MANAGEMENT  
DEPARTMENT.

PHASE ONE OF AGRISCAPES IS  
OPENED, INCLUDING THE FARM  
STORE AND VISITOR/EVENT CENTER.

The Human Nutrition and Food Science Department has been nourishing young minds since the 1960s

by Dr. Martin Sancho-Madriz  
Chairman, HNFS Department

Below: Students serve up food in a 1970s cooking class.



The origins of the Human Nutrition and Food Science Department go back to the mid-1960s, when a new degree and a new department were established in the College of Agriculture.

In 1959, Dr. Ramiro Dutra joined the Physical Sciences Department in the College of Science at Cal Poly Pomona. Dr. Dutra, who had a degree in chemistry and a doctorate in food science and technology from UC Davis, began presenting a few lectures on food chemistry in his organic chemistry courses, which eventually led to three courses in food and nutritional sciences. His vision for a degree and department in foods and nutrition became a reality when President Julian A. McPhee received a letter informing him that the Board of Trustees approved the new degree program on December 4, 1964.

The Foods and Nutrition Department and baccalaureate program were launched in fall 1965 with 17 students, one and a half faculty positions, a \$500 budget, and a foods laboratory housed in Room 223 of Science Building 3. From the beginning, the program met the requirements of the Academy for Nutrition and Dietetics (AND), known then as the American Dietetics Association. The dietetics option of the foods and nutrition degree remains an accredited program through AND's Accreditation Council on Education in Nutrition and Dietetics (ACEND).

Facilities to house laboratories and offices were built for the Foods and Nutrition Department in 1970 when the new Agriculture Addition Building, later renamed the Environmental Design Building and known as Building 7, was completed at a cost of \$1.8 million. The facilities included a food chemistry and analysis laboratory, two kitchen laboratories, four offices for faculty and department chair, and the main department office. Today, these facilities are not enough to meet the growing needs of the department, requiring the use of classrooms in other buildings as well as offices for faculty located in Buildings 2 and 94, with a scientific research laboratory also housed in Building 2.

In 1971, the department began offering a baccalaureate degree in home economics, and a clothing laboratory was

installed in Room 218 of Building 2. By 1975, the student population had increased to about 350. Dr. Dutra remained as chair and the department faculty grew to nine tenure/tenure track members plus three lecturers with emphasis areas in nutrition, dietetics, food science and technology, food service management, child development, housing and interior design, textiles and clothing, and education. By then, the name had been changed to the Foods and Nutrition and Home Economics Department.

A post-baccalaureate dietetic internship program was started by the department, receiving accreditation in 1987. The program continues to be accredited by ACEND and prepares interns to become registered dietitians.

By the mid-1990s, some of the faculty had left the department to establish the Apparel Merchandising and Management program, and only the consumer science component of the home economics program remained while the name had been changed to the Food, Nutrition and Consumer Sciences Department. Enrollment in the consumer science option began declining to the point that the program was closed in 2001, and the department was renamed Human Nutrition and Food Science. By then, the department had begun focusing on the nutrition and food science fields with several emphases.

The food science and technology (FST) baccalaureate degree program began in 1999 with three students and has grown to the current enrollment of 145 students. In 2006, a Culinology track or emphasis approved by the Research Chefs Association was developed in a partnership with the Collins College of Hospitality Management, becoming the fifth program of this kind to be approved nationwide and the first in California. Culinology blends the creativity of culinary arts with food science and the technical aspects of food processing. The college currently offers four tracks or emphases under the FST degree: science and technology, business, Culinology and pre-professional.

In 2006, a new option in nutrition science was established under the foods and nutrition degree, and in 2012, the department began to offer three new emphases under this option: pre-professional, nutrition and health, and animal nutrition.

The department also offers minors in foods and nutrition, food science and technology, food safety and Culinology. The total department enrollment in 2013 is nearly 500 students, including undergraduates in two majors, graduate students, and interns.

The department strives to continue upgrading its laboratory equipment, software and other resources to support a learn-by-doing environment. In summer 2013, thanks to a \$25,000 donation from the Kellogg Co. and matching funds from the Dean's Office, we began the first phase of renovating Room 237 in Building 7 to establish a much-needed Food Technology Laboratory. The department is seeking additional funding to complete phase 2 (floors, drains and hood) and phase 3 (additional food processing instructional equipment).

Our vision includes the establishment of the Center for Food Innovation and Technology (CFIT), which would be located at the AGRIscales complex on campus. CFIT would provide critically needed facilities to the Human Nutrition and Food Science Department for academic purposes while also being a resource for the food and beverage industry in California.

Land in the AGRIscales complex has been allocated for CFIT. The total area of the facilities is estimated at 22,000 to 24,000 square feet. With a \$25,000 seed grant from the Southern California Institute of Food Technologists and matching funds from the Dean's Office, a concept development and planning phase for CFIT was launched, including the development of architectural renderings for the proposed facilities. The next phase will involve a promotion campaign to seek funding for the project. The cost of the CFIT project, including the acquisition of pilot plant and laboratory equipment, is estimated at \$25 million to \$30 million.

# The Apparel Merchandising and Management Department wears its success well after seeing tremendous growth

by Dr. Peter Kilduff  
Chairman, AMM Department

A final fitting for student designed clothing in 2001.



The Apparel Merchandising & Management (AMM) program dates back to the work of two pioneering faculty members in the early 1990s. Jean Gipe and Betty Tracy were professors in the college's home economics program. With the rapid growth and international success of California-based apparel brands, they recognized a need for a comprehensive apparel business and technology degree in California that embraced both production and distribution aspects of the apparel industry. After years of research, industry consultation and curriculum development, the AMM program was finally approved in fall 1995. The first students entered in winter 1996.

Coinciding with the launch of the program, Professors Gipe and Tracy also won a multimillion-dollar grant from the U.S. Defense Logistics Agency (DLA). The grant was to support the apparel manufacturing sector in Southern California as a defense industry supplier through technology transfer and training programs. The grant operated through the Apparel Technology and Research Center (ATRC), which was established in 1992.

The DLA grant, in combination with donations from the industry, enabled extensive remodeling of Building 45 (the chosen home for the AMM program) to create and equip laboratories, a demonstration factory, and offices for faculty and ATRC staff.

Gipe assumed the role of ATRC director, while Tracy headed the AMM program. Initially, the program was established within the Landscape and Irrigation Science Department. An Industry Advisory Board was also created to help guide development of the curriculum and promote the new program within the industry. In May 1997, the program was formally endorsed by the American Apparel & Footwear Association, one of only 13 schools nationally to be so recognized.

What followed was years of steady enrollment growth. By 2000, there were 95 majors. That year, AMM was granted department status, with Tracy becoming the department chair. By 2005, with the number of majors at 190, Tracy retired. Gipe stepped in as interim chair and began a nationwide search for a permanent chair. In summer 2006, Peter Kilduff from the University of North Carolina at Greensboro was chosen. Coinciding with the arrival of the new chair, Gipe was

promoted to interim associate dean of the College of Agriculture. This left only two permanent faculty members in the AMM program: Kilduff and Cindy Regan (who had joined the tenure-track faculty in 2000). With 224 majors and rapid enrollment growth, the challenge was to recruit high-quality faculty to support further development. During 2006 and 2007, two new assistant professors and three new adjunct faculty joined the department.

In spring 2009, the AMM London Study Abroad program was established, and the first group of students was sent to live, study and intern in central London. On the scholarship side, AMM faculty have been winning internal and external grant funding, publishing peer reviewed research in scholarly journals, and presenting their work at international conferences. Three faculty members have won international awards for their research in the last seven years.

Despite the deep cuts in higher education after 2008, the department continued to make progress. In 2011, a fifth tenure-track faculty member was recruited, and the first with a doctorate in retail management.

In winter 2012, a number of advisory board member companies collaborated with the department to demonstrate how the integration of emerging technologies, including body scanning, 3D computer-aided design, e-commerce, digital textile coloration and computer-integrated garment manufacturing, will revolutionize how clothing is purchased and made. At our open house we delivered custom-designed, custom-fit garments for three volunteer customers in less than four hours from undyed fabric.

In spring 2012, the faculty submitted a proposal for launching a master's program in international apparel management. The proposed program also includes a thesis option for students seeking to pursue doctorates. The anticipated launch date is fall 2015.

Today, the AMM Department boasts a strong faculty team of 13. This includes five tenure-track faculty including: Dr. Cindy Regan (professor), who specializes in product

development and technical design; Dr. Muditha Senanayake (associate professor), who specializes in advanced technologies for apparel manufacturing; Dr. Chitra Dabas (assistant professor), who specializes in retail strategy and retail business performance; Dr. Jiangning Che (assistant professor), who specializes in color measurement and communications technology for the textile and apparel industries; and Dr. Peter Kilduff (professor and chair), who specializes in analyzing competitive dynamics of the apparel and textile industries. Our active adjunct faculty includes: Dr. Linda Tucker (wholesale and retail management), Dr. Ron Heimler (professional development and international business), Alejandra Parise (apparel production and fashion marketing), Debbie Johnson (patternmaking and garment construction), Shiela Espy (retail management and international trade), Carla Matus (fashion illustration and apparel aesthetics), Suzanne Scholz (fashion marketing and research methods) and Koffa Toeque (new media and fashion industry overview).

The department also has two dedicated staff members: equipment technician Antonio (Tony) Espinas (joined 2005), and Patty Mutz (joined 2006), the administrative support coordinator.

After four years of university impactation, enrollment in the AMM program has started to expand sharply again. In fall 2012, the number of undergraduate majors rose by 50 to 338. A record number of applications to the program this last year will push the number over 360 in fall 2013. This fall, the department will launch a series of certificate programs based on segments of the AMM program, in collaboration with the College of the Extended University. The certificates are targeted at professionals who are seeking recognized qualifications but are unable or do not need to enroll in a full-time degree program.

In its first 17 years, the AMM department has emerged as a leading program in the discipline within California. In the next 17 we are committed to building a world-class teaching and research institution that will support the continued rise of the apparel production and fashion retail sectors in California.

2002

HORSEHILL VINEYARDS IS ESTABLISHED WITH A GRANT FROM THE CALIFORNIA LOTTERY.

2004

THE ANIMAL AND VETERINARY SCIENCES DEPARTMENT OFFERS A DEGREE, AS OPPOSED TO AN OPTION, IN ANIMAL HEALTH SCIENCE.

2007

THE GREENHOUSES AT AGRISCAPES ARE COMPLETED; THEY NOW HOUSE HYDROPONIC CROPS, RESEARCH, THE ORNAMENTAL HORTICULTURE UNIT AND WEEKS ROSES.

2008

FIRST TRACTOR AND CAR SHOW AT THE FARM STORE; IT NOW ATTRACTS OVER 5,000 PEOPLE.

2012

THE ANIMAL AND VETERINARY SCIENCES DEPARTMENT CONDUCTS FIRST EVER AAFCO FEEDING TRIAL ON PRIVATELY OWNED DOGS FOR THE INNOVATIVE DOG FOOD COMPANY JUST FOOD FOR DOGS.

2013

THE W.K. KELLOGG ARABIAN HORSE CENTER CELEBRATES THE UNIVERSITY'S 75TH ANNIVERSARY AND 88 YEARS OF ARABIAN HORSE SHOWS.

# History of The W.K. Kellogg *Arabian Horse Center*



W.K. Kellogg, with twin foals Calsabi and Calsabiyat (Raseyn x Rifdah) in 1939, became interested in Arabian horses as a young boy.



Twins Calamyr and Calamyra (Alyf x Ferafa) are driven by Charles Smith at an Arabian Horse Show in the 1950s.

The story of the Cal Poly  
Pomona campus begins  
with a cereal magnate's  
love of horses and the  
fortuitous flip of a coin

by Dr. James Alderson  
Director, Arabian Horse Center

Will Keith Kellogg started his breakfast cereal company in 1906 in Battle Creek, Michigan, and found instant success with corn flakes. In the early 1920s, after a trip to the Pomona Valley to visit a niece, Kellogg became captivated by the area and decided he would choose a site in California for his Arabian horse ranch.

According to Horace B. Powell's biography, Kellogg's interest in Arabian horses began when he was a young boy and his family owned an old Arabian horse named Spot. The horse became a fast friend and playmate to the Kellogg children. When Kellogg's father sold Spot, Kellogg was heartbroken and vowed that someday he would own a whole stable of Arabian steeds.

Local legend says that Kellogg and one of the leaders of his church were traveling from Pomona to Santa Barbara to choose the site for the horse ranch. They stopped the car on a dusty road, and Kellogg threw a penny into the air, saying, "Heads, it's Pomona; tails, it's Santa Barbara." Heads it must have been.

In May 1925, Kellogg purchased 377 acres of land for \$250,000 from Cecil George, Spadra rancher and son-in-law of Louis Phillips, the first Anglo in the Pomona Valley. Over the next two years he built a mansion on the north end of the property, a manor house, stables, a training ring, a courtyard and a rose garden. He soon added a large grandstand for the public to watch his Sunday Arabian horse shows. The Sunday shows rapidly became a popular tourist and celebrity destination. Rudolph Valentino even came to the ranch, asking to ride one of the horses in one of his movies.

From 1925 to 1936, Kellogg spent more than \$1.5 million building the Kellogg Ranch and acquiring the finest Arabians his agents could procure. Much of his finest stock was purchased from the famous Crabbet Arabian Stud in England.

In April 1930, Kellogg purchased an additional 425 acres adjoining the ranch, bringing the total to slightly more than 800 acres.

Almost from the time Kellogg purchased the ranch, he began planning a trust or another arrangement that would ensure perpetuation of the ranch and horse program. In April 1926, Professor Gordon H. True of the University of California wrote Kellogg a letter suggesting the ranch be turned over to the university to breed Arabian horses.



The equestrian drill team performs at the Arabian Horse Center.

In 1932, the ranch was turned over to the university. Kellogg also donated \$600,000 to the university to perpetuate goals of the ranch and the breeding program.

Kellogg had been suffering from poor health, including deteriorating eyesight, but he continued to make visits to the ranch, where he maintained possession of the large mansion. On one of his visits, in May 1936, he discovered the ranch in poor condition, and he had attorneys investigate the possibility of redeeding the ranch back to him. But UC’s Board of Regents was unwilling to give up the land.

Meanwhile, Kellogg’s eyesight continued to worsen. In January 1940, he had surgery to help slow down the advance of glaucoma, but his blindness was nearly total. In July 1941, Kellogg discovered that the U.S. Army was interested in the Arabian horses for a small Arabian stud at Fort Reno. Kellogg allowed the Army to take three of his own horses and soon went to work on a proposal to turn over the ranch to the Remount branch of the Army. In October 1943, the university transferred ownership of the ranch to the Army.

The ranch seemed to be in good hands until July 1948, when it was transferred to the U.S. Department of Agriculture. The department soon lost interest in the Army program at the ranch because of a lack of funds and decided to sell all the horses, equipment and land.

Kellogg, then 88, was reported as being “greatly hurt” by the decision to sell the ranch, which he had learned about from the press.

The Department of Agriculture received requests for the land from Mount San Antonio College, and even the University of California tried to reclaim the property. However, the strongest plea was made by Julian A. McPhee, president of California State Polytechnic College at San Luis Obispo. He said the college needed a campus that could offer a curriculum covering all phases of agriculture and horticulture.

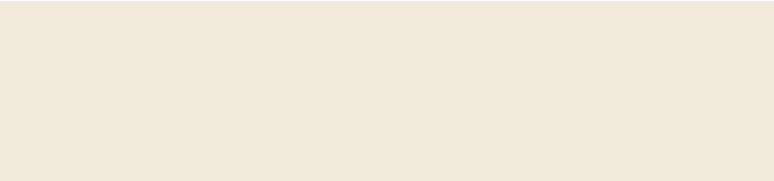
Finally, on June 4, 1949, President Harry S. Truman signed a bill that transferred the ranch and all personal property back to the Kellogg Foundation.

In July, the foundation transferred ownership of the ranch to the State of California, and on November 1, California State Polytechnic College officially took over operation of the land. The ranch was to become part of the San Dimas branch of the college.

The San Dimas branch had been owned by Charles B. Voorhis, one of the early executives of General Motors. He purchased the 157-acre ranch in March 1927 to establish a school for underprivileged boys. This school operated until 1936, when Voorhis offered to donate the school to another worthwhile cause. The ranch was transferred in 1938 through the diligent efforts of President McPhee and became known as the Voorhis Unit of Cal Poly.

Today Cal Poly covers about 1,400 acres. Its W.K. Kellogg Arabian Horse Center ranks in the top five of all Arabian breeders for the number of champions it has produced. It recently modernized its breeding program and is producing 15 to 20 foals per year. The Kellogg Arabians are presented in more than 20 public venues each year, and the center has more than 300 students involved in the center’s activities.

Cal Poly Pomona has continued W.K. Kellogg’s tradition of Sunday horse exhibitions. The shows are held the first Sunday of each month during the school year, October through May, in a specially designed arena with covered stands. Shows also are staged on Thursday mornings during the fall and spring for elementary school children. Reservations are required for the Thursday shows.



NEW FACULTY AND STAFF



MRS. ROBBIE MYERS
Administrative Analyst, Office of the Dean

The College of Agriculture has welcomed Robbie Myers as its new administrative analyst in the Dean’s Office. She worked as an Administrative Analyst at the College of Environmental Design for 11 years before taking this new position in October 2012. She has been with the university for 16 years and also has two daughters who both graduated from Cal Poly Pomona. Robbie’s duties at the College of Agriculture include budget administration, planning and fund management. She also calculates budget projections; oversees faculty appointments, assignments and salaries; and prepares budget transfers as needed. In addition, she is the new editor of AgriColumn, the college’s annual magazine. Robbie said the college’s “family atmosphere” and “sense of community” are what she likes most about being an Aggie.

MRS. SARAH DE LA PARRA
Administrative Support Coordinator, Animal & Veterinary Sciences Department

The Animal and Veterinary Sciences Department welcomed Sarah De La Parra in summer 2013 as its new administrative support coordinator. Sarah has been at Cal Poly Pomona for two years and comes to us from the College of Engineering. She has four children and two grandchildren. She earned her associate in science degree in business administration from Chaffey College and is working on completing her bachelor’s degree. Sarah has been a certified CPR instructor since 2004 and has trained hundreds of adults and young people in the lifesaving technique. She is well-liked and respected by students and goes above and beyond to help them through any process or procedure. Sarah enjoys being an active part of the Cal Poly staff community and assisting in any way she can. She is a member of Staff Council and is the Staff Council representative on the ASI Facilities and Operations Committee.



DR. JIANGNING CHE
Assistant Professor, Apparel Merchandising & Management Department

Dr. Jiangning Che is an assistant professor in the Department of Apparel Merchandising and Management, coming to Cal Poly Pomona in September 2013. He earned his doctorate and master’s degrees in textiles from the University of Shanghai in China. Dr. Che served at the Datacolor and Color & Image Institute in Tsinghua University in China. With more than 10 years of work experience in the industry, Dr. Che is very familiar with color science and technologies, as well as on-site color applications in textile, apparel and coloration process, which go through the textile and apparel supply chain. He has used a state-of-the-art color system, image system and CAD system to help industrial customers target their problems and provide solutions. Dr. Che also has abundant experience in using the national and international standards and methods for color-related textile and fabric testing. His hands-on industrial experience will be beneficial for teaching and research work at Cal Poly Pomona.

DR. DOUG LEWIS

Associate Dean, College of Agriculture



Dr. Doug Lewis, associate dean of the College of Agriculture, retired in June 2013 after serving the college for 11 years. Dr. Lewis began his tenure at Cal Poly Pomona in 2002 as chairman of the Human Nutrition and Food Science Department. He became associate dean in 2010. Dr. Lewis was definitely a student's dean, attending many "Pizza with the Dean" events and often socializing in the hallways with College of Agriculture students. He was

mentioned at graduation ceremonies as a favorite professor by several valedictorians and student award recipients. Prior to his departure, Dr. Lewis shared some thoughts and reflections:

*What did you enjoy most about your time at CPP?*  
"As a department chair, clearly the best time of day was when I was working with students, either teaching or helping them to solve their academic problems. As associate dean, I enjoyed representing the college because I had excellent cooperation from faculty and the department chairs. Working in the Dean's Office with staff and Dean [Lester] Young was the best time of my academic career because of the singleness of purpose and collegiality that we all shared."

*What will you be doing with your time now that you are officially retired?*  
"I will be working on remodeling our home and outbuildings and planting native plants on our homestead of about

seven acres in Texas. I may try to teach more, and I am considering writing a different type of textbook, such as one the student would actually use."

*Last words of advice for the students?*  
"Look at each course you take not as a hurdle, but an opportunity to learn as much as you can."

*Last words of advice for the faculty?*  
"Faculty need to remember that they do not have jobs, they have a career. They need to act accordingly and strive for excellence. Do what it takes and show passion for your field of study."

DR. VICTOR WEGRZYN  
Professor, Plant Science Department

Dr. Victor Wegrzyn, professor of agronomy/plant science, retired at the end of winter quarter 2013. He joined the department in 1983 after graduate studies at Pennsylvania State University in sustainable agriculture. Dr. Wegrzyn became our resident expert in new and emerging areas for agronomy. This included incorporating small-farm management, food safety, sustainability and ecological concepts into the curriculum.

He will be remembered for his interesting teaching approach, participation in Los Rancheros Club and the American Society of Agronomy, and his lengthy assignments, which students later said were some of the best things they did during their studies here.

MR. ROBERT KARMANN  
Instructional Support Technician, Animal & Veterinary Sciences Department



Robert Karmann was with the college for 35 years when he retired in August 2013. He was committed to ensuring the Meat Lab met and/or exceeded U.S. Department of Agriculture sanitation regulations. He was also a part-time lecturer, was instrumental in the restoration of the Meat Lab, organized and trained students in a National Meat Association Student Sausage Cook-Out competition, and created an online store selling a variety of beef, pork and sausages prepared and cut by students during their Meat Lab courses. The campus community fondly remembers Bob as "Mr. BBQ" for the many barbecues that he created for them. Bob will continue providing his support and guidance as an advisor with the International Viscera Cooler Club, commonly referred to as the "Meat Science Club." Thank you, Bob, for your hard work and dedication.

MR. EDWARD APPEL  
Professor Emeritus, College of Agriculture



Edward Appel, professor emeritus and founder of the agricultural services and inspection/agricultural biology program, died on March 16, his birthday. He was 94.

Born in Orange in 1919, Appel was raised in Etiwanda and, as a child, worked on his family's citrus ranches. He earned his bachelor's degree from Oregon State College in 1940 and worked as an agricultural inspector for the San Bernardino County

Department of Agriculture.

In 1946, Appel was chosen as one of two instructors to restart the agricultural inspection program at the Voorhis campus of

Cal Poly Pomona. The program was suspended during the war because of a shortage of students.

Appel spent two years strengthening the academic side of the program and then was named program chair, a position he held until his retirement in 1976. The program itself went through several name changes. The current agricultural biology title became official in 1967.

Professor Emeritus Rex Baker, a friend and colleague, recalls Appel as a strong taskmaster who demanded a lot from his students but also wanted them to succeed.

The family requests that donations be made to the Appel/Hobbs Scholarship Fund that supports agricultural biology majors. Donations can be made out to the Cal Poly Pomona Foundation and forwarded to the Plant Science Department, Cal Poly Pomona, 3801 W. Temple Avenue., Pomona, CA 91768.

DR. GERALD DUANE SHARP  
Professor Emeritus, Animal & Veterinary Sciences Department



Dr. Gerald Duane Sharp, professor of animal science at Cal Poly Pomona for more than two decades, passed away at his home in Rancho Cucamonga, California, on September 30, 2012. He was 79.

Born in Twin Falls, Idaho, Dr. Sharp earned his bachelor of science and master of science degrees at the University of Idaho and obtained his doctorate in animal science at Washington State University in 1969. He was a professor of animal science at Cal Poly Pomona from 1974 until he retired in 1998. He served as department chairman, coached the livestock judging team, and was a co-founder of the Cal Poly Pomona Chapter of Farmhouse Fraternity.

Dr. Sharp was preceded in death by his wife of 57 years, Dr. Roberta Sharp, on March 26, 2012. He is survived by his daughter, Keri Lynn Mackie of Lake Arrowhead, California; his son, Martin Keith Sharp of Cody, Wyoming; his sister, Marilyn Lawrence of Bellevue, Washington; his son-in-law, Scott Mackie of Lake Arrowhead; his daughter-in-law, Mary Ritz of Cody; and his stepson, Tavish Mackie of Highland, California.

MR. STEPHEN BONNELL

Stephen M. Bonnell, 55, soil scientist and 1979 Cal Poly Pomona graduate, passed away suddenly at his home in Schuyler Lake, N.Y., on October 29, 2011. Mr. Bonnell worked in Utah as a soil scientist for the U.S. Department of Agriculture's Natural Resources Conservation Service (formerly the Soil Conservation Service) and later was an environmental scientist at the New York State Department of Environmental Conservation. At the time of his death he was teaching soil science at the State University of New York at Oneonta. He is survived by his wife, Linda J. Melchionne; his children, Jennifer, Mary and Seth; his brothers, Chris, Monroe and Mark; and his sister, Cherina Guzmann.

# FACULTY AND STAFF ACHIEVEMENTS

## DR. KIMBERLY MILLER Teacher of the Year



“Great classroom teacher.” “An outstanding educational leader.” “Incredible wealth of knowledge and experience.” “Creative, fun and energetic.”

These are just some of the accolades peers and students have for Dr. Kimberley Miller, an assistant professor in the agricultural science program.

Students say that Dr. Miller is an enthusiastic, supportive and knowledgeable instructor, with an infectious personality that makes everyone around her smile. She is supportive, encouraging and recognizes her

student’s needs. Dr. Miller works hard and provides a quality education, while making learning fun. She continues to develop undergraduate and graduate courses within the agricultural science program, while also directing the agricultural teacher credential program and the agricultural science master’s

program. In addition to her teaching duties, she conducts the academic advising for all agricultural science majors, further mentoring and guiding the next generation of agricultural leaders.

Dr. Miller is an example of someone born to teach. “I was honored to be named College of Agriculture Teacher of the Year after only my second year at Cal Poly, and knowing that the students were the driving force in the decision made the recognition that much more inimitable for me,” she said. “Teaching is my core passion in life, and I am most comfortable in the classroom working with students, not talking to students. I thrive on students’ accomplishments and knowing that I was a part of a student’s successes in their careers. I am looking forward to continuing to work with, advise and get to know the goals and passions of as many Cal Poly students as possible in the years to come.”

## DR. LISA KESSLER Mack H. Kennington Advisor of the Year



Dr. Lisa Kessler received numerous letters of nomination from students who are inspired by her advice and guidance. A former recipient of the Teacher of the Year award in 2010, she is sincere and easy to talk to, her students say. Her encouragement and advice have helped students take advantage of unique professional opportunities and advance toward their chosen career paths. To quote one of her students,

“She has been an incredible advisor to me, and to her other advisees, I am sure. Without a doubt, she deserves the Mack H. Kennington Advisor of the Year Award for 2012-2013!” While Dr. Kessler will no longer be advising for the department, she will be in a position to further guide College of Agriculture students as our new interim associate dean. We congratulate Dr. Kessler on both of her achievements!

## MRS. DONNA HA Staff of the Year



Donna Ha, the instructional support technician in the Human Nutrition and Food Science Department, plays an integral role in her department, setting up labs, shopping for supplies and maintaining the equipment. She keeps the labs running smoothly under a very strict budget. She never hesitates when asked to take on additional tasks and responsibilities, and does so with a can-do attitude and ever-present smile.

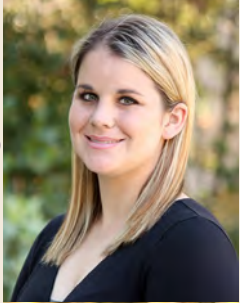
The chair of her department describes her as “a dedicated, conscientious and hard-working employee with . . . a great desire to serve the students.” Donna is an integral member of our college and another reason for the success of its students.

# STUDENT ACHIEVEMENTS

Catherine



Megan



Fiona



## THREE STUDENTS WIN AWARDS FOR HUMANE ANIMAL RESEARCH ESSAYS

Three Cal Poly Pomona students have been awarded scholarships from the Foundation for Biomedical Research (FBR) for their essays on the fundamental role that humane and responsible animal research plays in the advancement of human and animal health.

The recipients were:

First place (\$500): **Catherine Runion**, a December 2012 graduate with a degree in animal and veterinary science.

Second place (\$250): **Megan Ducey-Hardos**, a June 2013 graduate who majored in animal health science.

Third place (\$100): **Fiona Lair**, a senior who is pursuing her bachelor’s degree in animal science.

“It is critical the next generation understand the vital role humane and responsible animal

research plays in both human and animal medicine,” says Paul McKellips, executive vice president at FBR. “Catherine, Megan and Fiona have each demonstrated an excellent grasp of how lab animal research leads to new treatments, therapies and cures for people and animals, and an exceptional ability to communicate that fact.”

The winning essays were published in the spring 2013 issue of FBR’s semiannual magazine, ResearchSaves. In addition to awarding scholarships, FBR donated a CurVet Rat Training Simulator, which animal science students can use to learn humane and ethical handling practices involving rodents without the use of live animals.

For more information about the 2012 Animal Research Essay Contest or the winners, visit [www.fbresearch.org](http://www.fbresearch.org) and <http://www.csupomona.edu/~agri/our-college/news.shtml>.

## LIVESTOCK SHOW TEAM WINS BIG IN PORTERVILLE

The Cal Poly Pomona Livestock Show Team exhibited the Supreme Grand Champion Ram on March 9, 2013, at the California Collegiate Livestock Show in Porterville, California. The ram was born on campus and raised by Cal Poly students. Cal Poly Pomona students also exhibited the Grand Champion Registered Breeding Ram and Ewe at the show. In the more competitive non-registered ewe show, Cal Poly Pomona won six of the 12 classes.

In the beef cattle division, Cal Poly exhibited two heifers that won fourth place in two large classes of cattle. In individual showmanship competition, Ashley Pickard won second place in novice sheep showmanship and Cal Poly had seven of the top 10 individuals. In intermediate sheep showmanship, Kalise Bryant, Shannon Tomko and Mark Tan were top 10 individuals, and in advanced sheep showmanship, Taylor Zumstein and Nicole Paulden were also in the top 10 of a large class of showman.

The California Collegiate Livestock Show allows students to compete with exhibitors from other agriculture programs throughout California including Mt. San Antonio Community College, Modesto Junior College, Merced Junior College, Reedley College and Fresno State.

Cal Poly Pomona was led by sheep team captains Taylor Zumstein



Team members with Supreme Grand Champion Ram.

(ABM ) and Shannon Tomko (ABM) and beef team captain Nicole Paulden (AnSci). Other exhibitors were Kalise Bryant (ABM), Mark Tan (PLT), Ashley Pickard (AHS), McKenna Coveney (AnSci), Alysoun Prior (AHS), Carina Anderson (PSY), April Aquino (AnSci), Kaylee Otterson (AnSci), Christiana Otterson (AnSci) and Brittany Hill (AgSci).

The Cal Poly Pomona Livestock Show Team currently has 36 active members working with sheep, beef and swine. The team is advised by Dr. Allen Pettey and Mr. Steve Miller.

# STUDENT ACHIEVEMENTS



## HORSE SHOW TEAM IS TALL IN THE SADDLE

The Cal Poly Pomona Horse Show Team concluded its 2012-13 season with its best finish ever at the Intercollegiate National Championship Show.

The team competed in 10 regular season Hunt Seat shows and eight regular season Western shows. As a member of the Intercollegiate Horse Show Association's (IHSA) Zone 8, Region 2, which consists of teams from Southern California and Arizona, the Broncos finished the year as the Regional Champion Western team as well as the Champion Hunter Seat team.

The Broncos hosted the IHSA Western Semifinals last

March at the Pomona Fairplex. Cal Poly Pomona's Western team finished third qualifying them for IHSA Nationals in May.

The Zone 8 Hunt Seat Championship show was held April 6-7 in Denver, Colorado. Cal Poly Pomona was well represented with its Hunt Seat team and two individual riders. The Broncos sent students Kyler Stellhorn, Mollie McGuire, Dominique Marcynysczn, Haley Berman, Emily Flack, Tanya LoPatriello, and team captain Sarah Pollock to compete for the team, and ended up in third place overall. This was not quite good enough to advance to Nationals but was still one of the team's best showings at Zones in years. One individual rider, Stephanie Sosa, qualified to compete at IHSA Nationals.

IHSA Nationals were held at The Farm Complex in Harrisburg, Pennsylvania, May 2-5. Cal Poly Pomona's Western team consisted of Ryan Lawson, Nicole Thurman, Shannon Palmer, McKenna Coveney, and Laura Thomas, and competed against eight other Western teams for the national championship. The Broncos finished in fourth place, one spot higher than their previous best finish of fifth place. Stephanie Sosa, who competed as an individual in Walk-Trot Equitation, finished in eighth place nationally.

The team completed its highly successful season under the leadership of Erin Leon, president; Hunt Seat captains Sarah Pollock and Taylor Zumstein; and Western captain Laura Thomas.

## RANA SALDANO John E. Andrews Student Leader of the Year

Rana Saldano has served the Human Nutrition and Food Science Department, the university, her community and the country. A well-rounded student, Rana is someone who always conducts herself with integrity and graciousness and is known for her hard work and cooperation.

According to Dr. Lisa Kessler, her former faculty advisor, "Rana wrote one of the best research papers in the class on an innovative and important topic of neural tube defects in babies born of women following a gluten-free diet."

Rana served as publicity chair for Phi Upsilon Omicron, volunteered at the Pumpkin Festival and worked as a peer health educator in Student Health Services. In addition to juggling all these responsibilities and maintaining excellent grades, she also is a mother with two young children. Before coming to Cal Poly Pomona, she spent six years in the Air Force as a dental hygienist. Rana is currently a member of the university's Dietetic Internship program.

We know that Rana will become a successful registered dietitian and look forward to her continued contributions.



## RACHEL BROGUIERE Wins \$5,000 Scholarship

Rachel Broguiere, a senior in Apparel Merchandising and Management, has won a \$5,000 scholarship as part of a national case study competition held by the Young Menswear Association (YMA).

Broguiere received the award at a YMA banquet held January 8 at the Waldorf Astoria in Manhattan, N.Y. In addition to the award and travel expenses to attend the event, Rachel will receive a professional internship at one of the YMA member companies this summer.

The YMA Fashion Scholarship Fund hosts an annual scholarship case study competition open to juniors and seniors of the member schools. This year is the first time that Cal Poly Pomona apparel merchandising and management students were invited to participate.

# Aggie Spotlight

## TONY DE VEYRA Oversees the Collins Culinary Garden



The Culinary Garden is a one-acre plot at the top of the hill behind the Collins College of Hospitality Management. Planted and maintained by Cal Poly Pomona Plant Science students, it supplies the student-run Restaurant at Kellogg Ranch and the Farm Store with fresh produce. This past year, Tony de Veyra has taken the lead role in supervising the garden. He has been in charge of planting crops such as lettuce, tomatoes, summer squash, peas, broccoli, cauliflower and cabbage.

Tony is interested in pursuing small-scale urban agriculture in the future, which is what the Culinary Garden represents.

It also serves as a model for members of the community who are interested in establishing their own urban agriculture operations.

Overseeing the Culinary Garden proved to be a challenge to Tony, as he had to overcome pest issues and learn about proper fertilization. His hands-on experience will prepare him well for the future.

## TYLER GULLICKSON Plays Key Role in Turfgrass Program

Tyler Gullickson is a senior in the Department of Plant Science, studying turfgrass management, with plans to graduate in fall 2013. He is currently an assistant-in-training at the prestigious Sherwood Country Club in Thousand Oaks, California.



A few months after arriving at Cal Poly Pomona in 2010, he became president of the student campus chapter of the Golf Course Superintendents Association of America. After two years at the helm of the club, donations and fundraising had increased 50 percent over previous years. Tyler also played a key role in leading the club in national competitions held each winter. Teams of four students compete against other universities across the country in categories including turf identification, irrigation technology, soils, and golf course budget management.

During his two years here Tyler also managed CTILT (Center for Turfgrass, Irrigation, and Landscape Technology), the campus research station. The research facility, which has over 65 turfgrass plots and a golf complex, requires a great deal of expertise and hard work to keep the quality at a level consistent with research and laboratory work. Tyler worked at this facility in 2011 and 2012, leaving this spring when he was awarded the position at Sherwood Country Club.

Last winter, the United States Golf Association placed a call for the names of qualified students to be submitted for acceptance into their summer internship program. Tyler was accepted for a summer internship with the southwest regional agronomist, Pat Gross.

Honor the Past. Celebrate the Present.

## *Planting a Legacy* Through Endowment Giving

Invest in the Future.

In just the last decade, the College of Agriculture has enjoyed significant growth in the number of donors—retired faculty, alumni, community partners and corporations—who have all charitably invested in the college's future by establishing endowments.



Raymond Watje (Agronomy, '59)

As the university celebrates its 75th anniversary, these perpetual funds enable the college to provide stable financial support for academic programs, faculty research and student scholarships that will long impact future generations of Broncos.

One example of how endowments significantly impact the college's mission is the generous support from alumnus John E. Andrews (Agriculture Business Management, '92). In 2000, Mr. Andrews established an endowment to recognize and provide an annual cash award to one undergraduate and one graduate student who exhibit exceptional leadership. "It was an honor to be recognized for my hard work and dedication to the college. It also reaffirmed my desire to be a leader for future endeavors," said Dorothy Farias (Animal Industry Business Management, '02). This year, Mr. Andrews established an additional endowment to help support the salary of the Collins Garden student coordinator position. This student is responsible for managing the production of high-quality vegetables and produce that is served in the much-admired Restaurant at Kellogg Ranch. "I established each endowment to encourage student excellence in academics and hands-on work experiences that tie in directly with industry," Mr. Andrews said. "Such opportunities, I believe, help drive student success."

While endowments can be established with immediate gifts of cash, securities or real estate, they can also be created by a bequest gift from your estate. This year, alumnus Mr. Raymond Watje (Agronomy, '59) pledged a percentage of his estate toward the future creation of an endowment to support the college's farm manager position. "This is my way of continuing my support and to help others," said Mr. Watje, who has also provided annual scholarships to plant science students since 1992. Mr. Watje's generous commitment, which also honors his late wife, Patricia Watje, will help sustain our farming operations. "We're very grateful for Mr. Watje's continued support. Knowing that he and Pat included the college in their estate enables the college to make strategic decisions that factor in their future gift," said Dean Les Young.

As we look ahead to another 75 years and beyond, endowments are critical to advancing agricultural education in our state. Endowments that support professorships, the purchase and maintenance of state-of-the-art equipment and technology, innovative student/faculty projects, and scholarships will help us maintain our competitive advantage in recruiting talented faculty and aspiring students who will have a limitless impact in our industry.



**For more information** on endowment giving, estate planning or to make a gift to the college, please contact Kristen Daley, director of major gifts, at [kldaley@csupomona.edu](mailto:kldaley@csupomona.edu) or (909) 869 – 5471.

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Karen Troncale  
Rebecca Tsauro  
Geoffrey Turner  
Darryl Umemoto  
Lynn Uusitalo  
Dennis Vinopal  
William Vuong  
Raymond Watje  
Terry Watkins  
James Wavra  
Rebecca Weaver  
Eddie Weber  
Michael Whitlow  
Kathryn Whitmore  
Robert Williams  
Bill Winans  
Russell Wojcik  
Barbara Wolbrink  
Thomas Wolfe  
Meggie Wolfinger  
Brian Wood  
Carol Wyatt  
Leo Yamamoto  
Wayne Yamamoto  
Mon Yee  
William Yonge  
Lester Young  
Sandra Zwaal

## BUSINESSES

American AgCredit, ACA  
American Society of Irrigation Consultants  
Arabian Horse Breeding Alliance  
California Agricultural Leadership  
California Community Foundation  
Didier Living Trust  
Dole Food Company Inc.  
Dynasty Arabian Horse Partners  
East Valley Emergency Pet Clinic, Inc  
Encore Select Group LLC  
General Dillingham Produce  
Hiller Family Foundation  
Institute of Food Technologists  
It's Garden Thyme  
Jim Hicks Family Foundation  
Just Food for Dogs  
Kellogg Company  
Kimberlie Wilkes Foundation  
MPE Services, Inc.  
McKee Palms  
North Coast Mobile Homes  
Pesticide Applicators Professional Association, Inc.  
Raytheon Company  
Remington Monroe Equine LLC  
Rose Society of Saddleback Mountain  
SCC Cardinal Professional Products  
Schmitz Family Trust  
Smokey Mountain Park Arabians  
State Farm Companies Foundation  
ValleyCrest Companies  
Varian Arabians  
YMA Fashion Scholarship Fund  
Year Around Garden Club



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## Share your photos!

We are looking to use your Ag photos for our celebration. If you have something you would like to share please send them to:  
Deanna Stewart at [dstewart@csupomona.edu](mailto:dstewart@csupomona.edu) or call (909) 869-5390.  
*Please include a description and a quote about your student experience.*

# College of AGRICULTURE

*Seventy-five years and still growing*

*A*lumni and friends, please join the College of Agriculture to celebrate seventy-five years on Saturday, May 3, 2014.

Join us at AGRIsapes for:

- *A BBQ dinner*
- *Special acknowledgment of our Voorhis alumni*
- *Greenhouse tours*
- *Livestock and Arabian horse showcase and much more!*

For more information please contact Penne Fode at (909) 869-2201 or [pafode@csupomona.edu](mailto:pafode@csupomona.edu)

For event updates visit: [www.celebratecppag.com](http://www.celebratecppag.com)



## NATURE'S BOUNTY AT FARM STORE

The Farm Store at Kellogg Ranch is not your typical grocery store. Owned by the College of Agriculture, this nonprofit grocer opened its doors in September 2001 and has grown in popularity each year. It is conveniently located across the street from the main campus and is open daily including the summer from 10am to 6pm (excluding major holidays).

The store is well-known for its special-order gift baskets and produce boxes, which are available year-round at various

prices. These are great for office parties and holiday gifts. Baskets and boxes may be pre-ordered by calling (909) 869-4906 or put together on the spot. Some gifts may be shipped, which is especially helpful when sending a gift to distant relatives, friends or business associates.

To keep up with specials and events at the Farm Store join our email list and connect with us on Facebook. Visit: [www.csupomona.edu/farmstore](http://www.csupomona.edu/farmstore) for more information.

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[www.csupomona.edu/agri](http://www.csupomona.edu/agri)

**Agricultural Research Institute**  
[www.csupomona.edu/ari](http://www.csupomona.edu/ari)

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**Meat Lab**  
[www.csupomona.edu/meatlab](http://www.csupomona.edu/meatlab)

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A joyful child holds his prize at the 2012 Pumpkin Festival where over 50,000 folks gathered to hunt for pumpkins, ride horses, pet farm animals, eat, and just have fun!



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