

INSIDE

2 Specialty crops help small-scale farmers compete

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Researchers assess future of horticultural biotechnology

By Gary Beall

Horticultural crops lag many field crops when it comes to taking advantage of biotechnology for creating new products or marketing existing ones that have been developed using genetically modified organisms (GMOs).

A group of approximately 100 invited scientists from academia and industry gathered recently at a UC-sponsored workshop in Monterey to discuss these concerns, as well as opportunities, facing horticultural biotechnology. They covered intellectual property issues, regulations, changes in the food retail industry, international concerns over GMOs, economics, science and other issues.

Participants agreed that ongoing dialogue is needed among the key players if these issues are going to be solved. They suggested that the horticultural industry must move beyond "first

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Assembly Council revamps awards program for outstanding service—three \$5,000 cash prizes

Cooperative Extension academics are invited to submit nominations for a new set of three major Distinguished Service Awards being presented by the Academic Assembly Council and the Division.

The three awards replace the Distinguished Service Awards Program Assembly Council formerly offered. That program featured 12 categories and included \$100 cash prizes for individual awards and a single \$200 cash prize for the team award, which were contributed by the California Farm Bureau Federation.

The revamped program

has three award categories—outstanding research, outstanding extension and outstanding teamwork. And each award carries a \$5,000 monetary prize. Award winners will also receive a plaque. In addition, they will be honored by their peers at a UCCE statewide meeting. The Division is contributing \$4,500, and the Farm Bureau \$500, for each cash prize.

"I am extremely pleased that the Academic Assembly Council has embraced this new format for the Distinguished Service Awards Program," said Associate Vice President *Henry Vaux Jr.* "It is our hope that having

three award categories with large monetary prizes will enhance the prestige of the CE awards and make them strictly comparable with the campus-based award systems."

Nomination packets are due by June 15. The complete call for nominations can be downloaded from ANR's internal website.

For more information, contact *Rebecca Carver*, awards committee chair, at 530/666-8703 or rlcarver@ucdavis.edu.

The Academic Assembly Council will announce the award winners in February at ANR's Statewide Academic Staff Conference.

[NR Continuing Conference report](#)

Restoration ecology: an 'emerging issue' in ANR

By John Stumbos

In 1993 the tui chub, sucker fish and redband trout unique to the 1,100 square-mile Goose Lake watershed in northeastern California were struggling for survival.

Drought is not uncommon in Great Basin country: The fish adapt to a tenuous existence in the "refugial habitat" of the creeks and streams in the Warner Mountains.

The fish were being considered for protection under the federal Endangered Species Act, which would have restricted land-use practices



John Stumbos

On a field tour, Joe Merz, a biologist working with the East Bay Municipal Utility District, discusses gravel addition experiments below Camanche Dam on the Mokelumne River in the Sierra Nevada foothills.

and thus raised the concern of local landowners.

But, recalls UCCE Modoc County Director *Don Lancaster*, a forward thinking group "got out front" of

the issue and formed what would come to be known as the Goose Lake Watershed Council to aid in the fish's survival.

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UCCE advisors help small-scale growers search for specialty and alternative crops that will enable them to stay competitive and viable

By Jeannette Warnert

Creativity in crop selection plus marketing flair can help California's small-scale and family farmers weather fierce competition from other countries and larger farms, according to presenters at the Small Farm Workgroup's annual continuing conference, held last month.

Convening at the Hansen Agricultural Learning Center in Ventura County, farm advisors and staff of the Small Farm Program, CE specialists, and other members of the workgroup shared their efforts in helping these farmers explore a range of options: alternative crops, new market windows, marketing opportunities with restaurants, schools and specialty produce stores, and farmers' market sales.

"Small-scale farmers are looking for anything that can set them apart," said Fresno County farm advisor *Richard Molinar*.

Frieda Caplan, founder of Frieda's Inc., a specialty produce marketing firm, told the group her staff looks for good-tasting, long-lasting, healthful, interesting and affordable produce. Her company works with farmers who "beta test" new crops in test plots.

Caplan said she sees future growth in soy products such as edamame; Indian vegetables; fresh foods packaged for convenience stores; and pitahaya, a fruit grown on a trellised cactus plant, with custard-textured bright magenta or green flesh.

Small Farm Center advisors, based in six counties, are leading the way in new crop development. *Mark Gaskell*, *Ramiro Lobo* and *Richard Molinar* are testing edamame varieties in local climate and soil conditions. Gaskell, Lobo and *Ben Faber* have planted lychee and longan, a subtropical tree fruit with white jellylike flesh that is popular among Hispanic and Asian consumers.

Manuel Jimenez and *Molinar* are testing blueberry varieties in the San Joaquin Valley. They are hoping to help farmers harvest high-quality blueberries when prices are high. Jimenez is also growing 150 varieties of chili peppers, broom corn and papaya. *Molinar* has studies under way with nopales, which are edible cactus leaves used in Mexican dishes; sugarcane, a popular Latino snack; water chestnuts, widely used in Asian cuisine; and Chinese medicinal herbs.

Aziz Baameur, the newly appointed small farm advisor in Santa Clara County, will also begin specialty crop research.

The conference participants toured a hydroponic tomato operation, where 30-foot-long tomato stems loaded with large, flawless fruit were growing in a mineral or coconut-husk matrix. Temperature, humidity, nutrients and water

are carefully controlled to optimize production. According to the farm manager, the crop is sold exclusively at 15 farmers' markets. The manager of the Hispanic market where the group stopped for lunch mentioned that fresh jocotes are in short supply during the holiday season. The advisors snapped photos of the canned fruit (similar to a pickled plum), unfamiliar to them all, so they could begin researching this new specialty produce opportunity.



UC advisors explore whether specialty produce like this Latin American import (jocotes) can be grown and marketed by small-scale farmers here.

Names in the news

■ *Charles Go*, 4-H youth development advisor, Alameda County, has received the Leadership Award from the Okura Mental Health Foundation. As an award recipient, Go attended the foundation's "Week in Washington" leadership training, which included meetings with members of Congress, national leaders in areas of health and human services, and administrators of national organizations.

■ Senior public information representative *Alberto Hauffen* has won the 2002 ACE Electronic Media Award of Excellence. The citation reads as follows: "... you exemplify excellence in electronic media and in multidiscipline efforts to promote excellence and creativity. You have also demonstrated leadership and involvement in ACE and in your area of communications expertise." Hauffen has been a member of ANR's Spanish Broadcast and Media Services for 10 years.

■ *Miguel A. Marino*, professor of hydrologic sciences and civil and environmental engineering at UC Davis, has been selected to receive the Warren A. Hall Medal. The award is given by the

Universities Council on Water Resources for distinguished achievements in the field.

■ *Cal Qualset*, founding director of the statewide Genetic Resources Conservation Program, received the Charles A. Black Award from the Council for Agricultural Science and Technology. The award is given for exemplary contributions to public understanding of food and agricultural science.

■ *Stephen Welter*, professor and division chair of insect biology, College of Natural Resources, is one of five UCB faculty members selected for the 2002 Distinguished Teaching Award, UCB's top honor for instruction. Each awardee receives a \$10,000 cash award.

Job opportunity

■ Youth Development Advisor, Riverside County-Moreno Valley Office
Closing Date: Aug. 15
#ACCSO-00-07R

Contact *Cheryl Gneckow* (909/787-2529; fax: 909/787-2328; or email: ccsracadrecruitment@ucdavis.edu).

Redesigned website is your gateway to ANR promotional products and ANR logo guidelines

Now you can access a redesigned, easy-to-use website—<http://oakland.ucanr.org/marketing/>—to view the Division’s promotional products, find out how to place an order and access guidelines for using the ANR logo.

The site was created by an Office of Governmental and External Relations’ team led by *Peggy O’Brien*, who joined the unit last fall as ANR product development and marketing coordinator.

O’Brien collaborates with designers, manufacturers and printers to produce promotional materials that tell the Division’s story, support ANR-sponsored events and keep the Division’s name visible to stakeholders and other audiences.

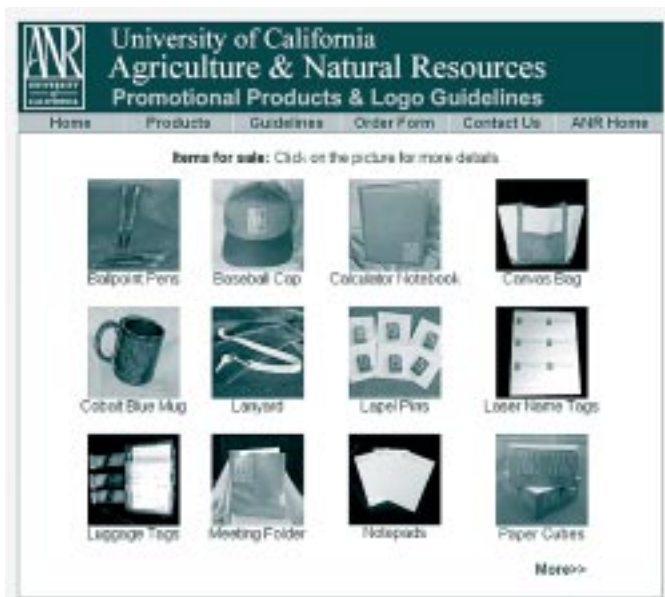
“Over the last several years, the Division has developed more than 25 products featuring the ANR logo,” O’Brien said.

“ANR products help us promote the Division’s visibility in the communities we work with. But they are not only promotional, they are also useful, fun and engaging.

“The meeting folders, pens and name tags, to mention just a few items, are especially useful for meetings. The mugs, caps and canvas bags make great gifts. And the screen sweeps and slinkies are amusing.”

In her former role as executive secretary to Vice President *Gomes*, O’Brien coordinated the team that developed the popular ANR cube. She now reports to Executive Director *Steve Nation*.

In the coming months, O’Brien will be taking ANR promotional items to meetings and events around the state to get feedback and suggestions on current and future logo items.



Among the visits she has scheduled so far are the following regional meetings of county directors:

- June 20 in Santa Rosa, North Coast and Mountain Region
- July 31 in Madera, Central Valley Region
- Sept. 19 in Oakland, Central Coast and Southern Region

Central Coast and Southern Region

To view ANR logo items or to find out how to order them, visit <http://oakland.ucanr.org/marketing/>.

For more information, call O’Brien at 510/987-0138 or send her an email at peggy.obrien@ucop.edu.

Future of horticultural biotechnology (from p. 1)

generation” products that have largely focused on pesticide and herbicide resistance in plants to ones that have more direct consumer benefits. These might include such products as uniquely colored flowers, roses and other flowers with enhanced fragrance, and slower growing turf grass that wouldn’t have to be mowed as often.

The workshop was developed by the Agricultural Issues Center and the Seed Biotechnology Center to identify opportunities to help guide policy development in

horticultural biotechnology research. Key organizers included *Julian Alston*, associate director of the Ag Issues Center and professor of agricultural and resource economics at UC Davis; *Kent Bradford*, director of the Seed Biotechnology Center and professor of vegetable crops at UCD; and *Peggy Lemaux*, CE biotechnology specialist at UC Berkeley.

Co-sponsors were the UC BioSTAR Project, UCD College of Agricultural and Environmental Sciences, ANR and the Giannini Foundation.

Logo guidelines being revised

Peggy O’Brien and Communication Services’ *Will Suckow* are currently revising the ANR logo guidelines.

The new guidelines will include more examples of logo artwork and make it easier to find answers regarding proper use of the ANR logo on everything from business cards and letterheads to note pads and meeting folders.

The guidelines also will provide more options for incorporating program and unit logos, such as the UCCE logo, with the ANR logo in promotional materials. The revised guidelines—as well as ANR logo artwork for download—will be posted on the web later this fall.

Natural Resources Continuing Conference (from p. 1)

Local land-ownership patterns required a Herculean teamwork effort. Eventually, 44 government agencies signed an MOU to get a variety of watershed restoration projects off the ground. Workshops and field days encouraged local landowners to develop riparian pasture, off-stream water, and new rest-and-rotation strategies. Fish screens and ladders were installed.

In-stream habitat conditions soon improved. In addition, water quality and stream temperature monitoring research got under way—a first in California at the time.

The US Fish and Wildlife Service cited this conservation strategy as a major reason for not listing the redband trout under the Endangered Species Act.

“It is a thrill to watch large spawning trout in multiple-age classes migrating up the streams from a lake that was dry in 1992,” Lancaster told ANR colleagues during the ninth Natural Resources Continuing Conference (NRCC), held in Sacramento April 2 through April 4.

For a day and a half, 77 specialists, farm advisors, faculty and interested staff learned about the disciplinary crossroads now known as restoration ecology and conservation biology.

A post-conference tour visited Central Valley sites where major restoration projects are in progress.

“This year’s NRCC was a huge success,” said *Rick Standiford*, principal conference organizer and associate dean of forestry at the UC Berkeley College of Natural Resources. “The Division is

involved in a wide range of research, extension and teaching programs in the important areas of restoration ecology and conservation biology.”

Following are additional highlights from the conference.

■ The focal point for much of the work in Southern California is UC Riverside’s Center for Conservation Biology, with more than 80 affiliated scientists in diverse fields related to conservation biology, such as hydrology, trophic interactions, population biology and soil genesis.

Botanist and CE specialist *Edie Allen* and integrated

hardwood range management specialist *Tom Scott* discussed some of the center’s activities.

One study is examining how nitrogen transported from Southern California automobile exhaust is effectively fertilizing invasive weed species in natural preserves as far away as Lake Skinner, Palm Springs and even Joshua Tree National Monument.

Scott characterized habitat conservation planning that has sprung up in recent years to deal with urban sprawl as “island biogeography” and the Endangered Species Act as a de facto planning law and spoke for

the need to educate private landowners or “rurbanites.”

■ Birds don’t nest in them. Herbivores won’t eat them. They clog rivers and stream channels, increase salinity and are a fire hazard.

That’s how weed scientist and San Diego County natural resources advisor *Carl Bell* summed up the problem with invasive plants.

He said there are 1,045 non-native plants that exist in California’s natural areas.

Bell has a special interest in invasive plants purposely introduced into the state as landscape ornamentals. He

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Alameda CE links youth, nutrition, computers



Lobsang Wangdu

UC Berkeley student Mariaelena Camarota, seated center, leads youth in a hands-on Nutri-Link project at M. Robinson Baker YMCA in Oakland. Alameda County Cooperative Extension program coordinator Jo Ann Johnson, standing, is leading the Nutri-Link program pilot-test, in which

youth learn about healthful eating and food safety while acquiring computer skills through web-based game play and hands-on science activities. UCB undergraduates are mentoring youth and helping Johnson develop the Nutri-Link curriculum.

has been working with the California Exotic Pest Plant Council and the California Association of Nurseryman, to find solutions to this problem.

■ *Ted Grosholz*, CE coastal resources specialist, described the invasive species threat in San Francisco Bay, which has 250 introduced species and, on average, a new one appearing every 14 weeks.

Introduced cordgrass, for instance, is overtaking mudflats, habitat used by shorebirds. The state is spending millions of dollars on its control.

Grosholz distributed a brochure “Invasion of the Baysnatchers,” funded by the CALFED Bay-Delta Program, that describes threats from other exotic species—Asian clam, Chinese mitten crab, European green crab, inland silverside and water hyacinth. He also mentioned the Bodega Marine Lab-based Western Region Center for Estuarine Environmental Indicators Research (CEEIR) as a growing focal point for research into the status of birds, fish and other coastal species.

■ One public-policy arena that NRCC academics are increasingly being drawn into is land-use and coastal resource planning.

Several advisors gave fairly detailed accounts of their roles coordinating myriad government agencies and stakeholder groups in efforts to guide growth or stave off the demise of endangered and threatened species.

San Diego County environmental issues advisor *Valerie Mellano*, for instance, helped in the creation of watershed guidelines for the

San Luis Rey watershed on the South Coast.

Sea Grant marine advisor *Deborah McArdle* has been assessing marine-protected areas along California’s coast, with special attention on the Channel Islands. She described a successful local effort to reconcile science-based ecosystem goals with the needs of commercial fishermen in the establishment of “no-take” reserves at the Channel Islands.

■ County Director *Gary Johnston*, San Joaquin, was involved in the development of a multi-species habitat conservation and open-space plan that sets aside more than 100,000 acres to offset anticipated losses of farmland and open space in other areas of the county.

The process took seven years of negotiating between development and preservation interests, but the final product—a renewable 50-year plan that is voluntary, mitigates habitat loss and streamlines the development process—was unanimously adopted by local decision-makers.

“Given UCCE’s mandated role, a lot of what we did will be a jumping off point for other places,” Johnston said.

■ In western Tehama County, farm advisor *Marc Horney* is helping the landowners in the Sunflower CRMP (Coordinated Resource Management Process) take ranch management to a more sophisticated level.

Incorporating field data collected with a global positioning system, aerial photographs and other electronic map layers created by state and federal agencies into a

common GIS (geographic information systems) database, landowners can display an aerial or topographic map view of their ranch on their home computer and add graphic layers that show agency jurisdictions, locations of streams and roads, fire records, soil types and other information.

Adina Merenlender, a CE specialist with the Integrated Hardwood Range Management Program, is utilizing a similar approach to monitor biodiversity in residential areas of the North Coast. Her work is documenting how parcelization is affecting species composition in developed and undeveloped areas.

Workgroup members sought

Those interested in forming a restoration ecology workgroup should contact natural resource advisor *Sheila Barry* in Santa Clara County (408/299-2635 x1005 or by email: sbarry@ucdavis.edu).

■ Another group of presentations focused on projects in veterinary medicine.

Rob Atwill, a veterinarian based at the Veterinary Medicine Teaching and Research Center (VMTRC) in Tulare, specializes in environmental animal health and medical ecology. He has been studying watershed discharge patterns and potential human health risks from infectious diseases caused by cryptosporidium, giardia and other water-borne pathogens.

Projects under way range

from packstock in Yosemite National Park, to wildlife and cow-calf operations in oak woodlands, to agricultural watersheds in Tomales Bay. Atwill teams with a broad cross-section of CE specialists and farm advisors to come up with BMPs—*beneficial* management practices—such as vegetative buffer strips to limit transport of pathogens.

John Kirk, Extension veterinarian also at VMTRC, has been looking into the role of birds in the epidemiology of salmonellosis. Sparrows, pigeons, starlings, blackbirds, finches and cowbirds have been studied. About 2.5 percent of the birds in this study were carrying salmonella. Kirk is seeking additional research collaborators to continue this field study.

Vet Med’s work also includes wildlife. *Kirsten Gilardi* provided an overview of the Wildlife Health Center (WHC)—at the UC Davis School of Veterinary Medicine—which focuses on issues at the urban/wildlife interface. One highly visible program administered by WHC, in cooperation with the state Department of Fish and Game, is the Oiled Wildlife Care Network (OWCN), a legislatively mandated program established to respond to oil spills that impact wildlife.

OWCN rescues and rehabilitates oiled wildlife (primarily seabirds) at its own facilities and those of participating wildlife rehabilitation organizations. Other WHC projects are focused on desert bighorn sheep, mountain lions and sea otters. Through its staff veterinarians and

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Natural Resources Continuing Conference *(from p. 5)*

graduate students, the WHC provides veterinary assistance to research and management projects on threatened and endangered species, including the Channel Island fox, giant garter snake, marbled murrelets and riparian brush rabbit.

■ The Russian River Tributary Restoration and Landowner Outreach Program is in its fifth year of conducting workshops for riparian landowners and implementing salmon habitat restoration projects in streams. Program Coordinator *Janet Moore* and *Sarah Nossman*, a restoration technician with the Sea Grant Program, provided an overview of this grant-funded program. With 95 percent of the watershed in private ownership, the program is designed to train riparian landowners to identify and implement land-use practices and property improvement projects to improve habitat for threatened salmonids. The state Department of Fish and Game and the Hopland Research and Extension Center also collaborate on the project.

From farther up the coast, Del Norte County marine advisor *Jim Waldvogel* reported on his 20-year project monitoring Chinook salmon in Mill Creek, a pristine tributary of the Smith River. The study helped draw attention to the fishery values in the creek and saved it from a proposed rerouting of Highway 101.

■ UC Davis professor *Kevin Rice* noted that restoration projects are the fastest growing area in the ecology graduate group. Graduate students are involved in a wide range of projects, in-

cluding studies of California sea lions' immune-system response to environmental stresses; roadless habitats as refuges for native plant diversity; restoration of California annual rangelands with native species; the impact of invasive species such as goatgrass to soil microbes and other plant-microbe interactions; prescribed fire to manage plant diversity in vernal pools; reintroduction of declining amphibian populations such as the foothill yellow-legged frog; and international projects in Mexico and Indonesia that examine the mutual dependence of cultural and biological diversity.

■ A small skin biopsy conducted with a crossbow might seem a little dramatic, but that's exactly the technique *Per Palsboll*, assistant professor of ecosystem science in the UCB Conservation Genetics Laboratory, is using to study the "genetic signatures" of humpback and other whales.

With tissue samples from different groups of these intensively studied cetaceans, Palsboll and his fellow re-

searchers are able to genetically tag—a bar code, if you will—thousands of individual whales in an effort to track population structure and gene flow. The laboratory's mission is to study the forces that determine distribution and level of genetic variation on evolutionary as well as contemporary time scales.

In total, more than 30 institutions in 15 countries collaborate with Palsboll in research into humpbacks and other whale species.

The objective of the Natural Resources Continuing Conference is to provide an annual forum for workgroups, special projects and AES and CE academics working in the broad area of natural resources to identify priorities; provide training; showcase successful projects; build academic teams to respond to issues; and learn about emerging natural resource issues.

For additional information about the NRCC, contact Standiford at 510/643-5428 or by email: standifo@nature.berkeley.edu.

In memoriam

Noel T. Keen, one of UCR's most distinguished professors, died on April 18 from leukemia. He was 61.

Keen joined the UCR community in 1968, having earned his degrees in botany and plant pathology at Iowa State University, and a PhD from the University of Wisconsin.

He was elected to the National Academy of Sciences in 1997. Keen earned a stellar reputation with research that examines how plants recognize disease agents or pests, a trait that can be implanted in other crop varieties to boost food supplies. Along with former UCR biochemists *Fran Jurnak* and *Marilyn D. Yoder*, Keen discovered a new bacterial enzyme responsible for rot in potatoes, tomatoes, apples and tropical plants.

His work influenced the research directions of many laboratories worldwide. His research showed that plants have chemical recognition systems, much like animals have immune systems, which trigger a defense response. His work provides the scientific foundation for breeding or genetically engineering plants with disease resistance, which will reduce the use of chemical pesticides.

Keen, holder of the Johnson Endowed Chair in Molecular Biology, chaired the plant pathology department from 1983 to 1989. At the time of his death, he was president of the American Phytopathological Society. Memorial donations can be made to the Noel T. Keen Memorial Fund, care of the UCR Foundation, University of California, Riverside.



Doug McCreary (left), natural resources specialist with the Integrated Hardwood Range Management Program, and Sierra Foothill REC Superintendent **Mike Conner**, look at fairy shrimp and copepods.

John Stumbos

Nancy Feldman retires, ending 22-year career at UCCE

By Jeannette Warnert

Nancy Feldman had first-hand experience with latch-key kids in 1980 when she took the job of 4-H program coordinator for UC Cooperative Extension in Tuolumne County. She was unable to find after-school care for her own children when they attended elementary school in Twain Harte, one of the rural mountain county's small communities.

Feldman's personal experience prompted her to develop a groundbreaking 4-H after-school program that has provided thousands of students with enriching, educational and supervised afternoons for the past 20 years. The fee-for-service "4-H PM Clubs" have been successfully replicated in rural and urban counties nationwide.

The program is just one of many accomplishments in the distinguished 22-year career of the nationally known nutrition, family and consumer sciences advisor for Stanislaus County, a position she took in 1991. Before that, she also served for six years as the home economist for Mariposa, Tuolumne and Calaveras counties.

Feldman retired on May 1.



Nancy Feldman

Feldman was one of the UC academics who conducted a food habits survey of Native Americans in the Yosemite area. She and other nutrition scientists developed a culturally sensitive nutrition education program from data collected in the survey.

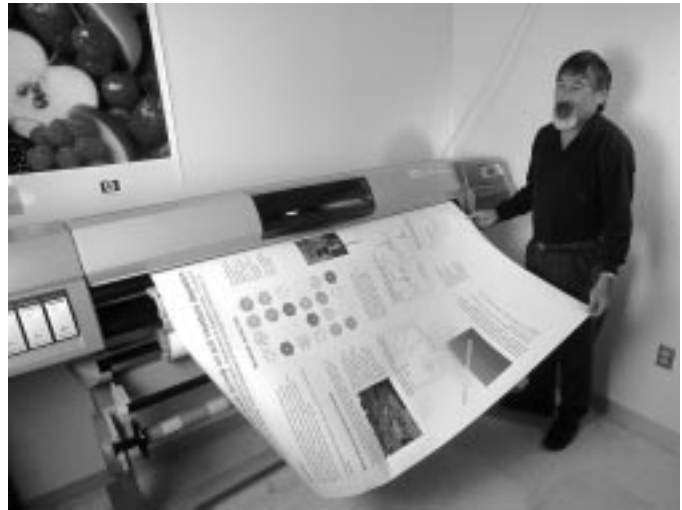
"This was the first time a food survey was done in this Native American community," Feldman said. "The videotape (that we developed) ended up being used throughout the United States, Canada and Guam."

Many local consumers got to know Feldman through her weekly food and nutrition column in newspapers such as the Modesto Bee.

And thousands of families were also helped by the programs she administered, including the Extended Food and Nutrition Education Program, and the Adult and Youth Food Stamp Nutrition Education programs.

Recently, Feldman played a key role when UCCE advisors and specialists created "Gateway to a Better Life." Now used by social service agencies all over the country, the curriculum teaches people with little or no work experience the skills for getting a job, staying employed and balancing the demands of work and home. She co-wrote two "Gateway" chapters, piloted the program locally and trained over 200 social service agency staff in administering the program.

"Nancy has been a great academic to work with," said Program Leader *Karen Varcoe*. "I've always enjoyed her creativity in designing and expanding programs. We will miss her energy a lot."



Photographer Chet Fukushima retires

By Gary Beall

An association with UC that began in 1963 as a college transfer student into the entomology department at UC Davis took another turn on April 30 with the retirement of ANR Communication Services principal photographer *Chet Fukushima*.

Since joining what was then Cooperative Extension's Visual Media Department in 1983, Fukushima has been helping ANR specialists and advisors enhance their communications skills.

"The most rewarding aspect of my job has been working with ANR staff who have had the desire to use new technology to improve communications with their clientele," says Fukushima. He was a pioneer in the development of computerized slide imaging to enhance staff presentations and, most recently, provided statewide leadership in developing computerized large-format posters.

Fukushima was frequently in the field, helping CE advisors understand and use advances in imaging technology through workshops on digital cameras and new computer software. "The growth and sophistication of software applications is making it easier for staff to do a lot of 'gee-whiz' things," Fukushima commented.

After graduating with a bachelor's degree in entomology in 1966, Fukushima joined the UCD entomology department, where he spent the next 15 years as a staff research associate working on pest control research and early integrated pest management programs. In 1981, he left UC for a two-year stint with the integrated pest management group at the California Department of Food and Agriculture.

In addition to being a season ticket holder for the San Francisco 49ers and Sacramento River Cats, Fukushima has traveling, gardening and skiing in his immediate retirement plans.

A retirement reception will be held for Fukushima from 4:30 to 6:30 p.m. on May 29 at the UC Davis University Club. RSVP to *Cheryl Dempsey* at 530/757-1930 or cadempsey@ucdavis.edu.

ANR welcomes ...

Theresa Ward: farm advisor for Stanislaus and San Joaquin counties

On May 1, *Theresa A. Ward* became the livestock and natural resources farm advisor for Stanislaus and San Joaquin counties.

She recently completed a master's degree in animal science at UC Davis. For her master's thesis, Ward conducted a statewide cross-sectional survey of riparian grazing on California's rangelands. She sought to identify grazing management practices that enhance riparian health.

While at Davis, Ward was a postgraduate researcher for three years, working directly with Cooperative Extension rangeland specialists *Kent Tate* and *Mel George*. She authored or co-authored two Extension publications, six posters and eight presentations on riparian grazing management.

"When I decided to come to Davis, I had an idea I wanted to be in the Cooperative Extension system," Ward said. "I like the model of doing applied research that directly helps producers."

Ward earned a bachelor's degree at California Polytechnic State University, San Luis Obispo, in 1999, in animal science with a concentration in natural resource management and a minor in watershed management.

Ward is based at the Stanislaus County UCCE office and can be reached at 559/525-6800 or taward@ucdavis.edu—*Jeannette Warnert*

Jackelyn Lundy: community development and natural resources advisor for Napa County

The community development and natural resources advisor for Napa County is new to the county, but not to the UC system.

Jackelyn Lundy received a bachelor's degree in sociology, a master's in agricultural economics and a doctorate in economic development—all from UC Davis. Lundy also started her career at UC—while doing graduate work—as a UCD staff research associate, analyzing rural community issues.

She then became a technical assistant officer at the National Consumer Cooperative Bank, after which she worked in the Governor's Office on innovative economic development programs.

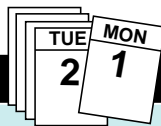
Lundy returned to UC after finishing her PhD—to the Santa Cruz campus, where she was the associate director and then the interim director of the Center for Agroecology and Sustainable Food Systems. In addition to managing the center with its 25-acre farm and education programs, Lundy taught in the economics and environmental studies departments and conducted her research program, which focused on sustainability and public policy. While at UCSC she received two fellowships: One was with the Washington, D.C.-based Resources for the Future; the other from the Kellogg National Fellowship Program in leadership. With this three-year fellowship, she traveled to multiple destinations around the world researching issues related to ecotourism, poverty and the environment. Lundy was at UCSC for 10 years.

After another break from UC, Lundy is now back, working on community development and natural resources issues in Napa County. "What I am really enjoying about Napa is that people here honestly want to work together to improve their communities, and that the natural beauty includes everything from wetlands to vineyards to mountains," Lundy said. She is based at the Napa County UCCE office, and can be reached at 707/253-4221 or jlundy@ucdavis.edu.



Jackelyn Lundy

COMING UP



JUNE

Worker Protection Standard Workshop (for trainers of both pesticide handlers and ag fieldworkers)

June 12; Winters; 530/752-5273

www.ipm.ucdavis.edu/

IPMPROJECT/workshops.html

Invasive Species Symposium

June 18-19; UC Davis

<http://conferences.ucdavis.edu>

SEPTEMBER

Conservation Tillage Research and Farmer Innovation Conferences

Sept. 17; UC Davis

Sept. 19; West Side REC (event

will merge with Cotton Field Day)

Jeff Mitchell 559/646-6565

FEBRUARY 2003

ANR Statewide Academic Staff Conference

Feb. 17-19; Pacific Grove; Joni

Rippee (510/642-0095,

ripee@nature.berkeley.edu)

To list events, call 510/987-0631
or send to ANR Report

(To post events on the ANR online
events calendar, go to

<http://calendar.ucanr.org/>)

ANR REPORT

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