

HIGHLIGHTS

A PUBLICATION FOR OUR ALUMNI AND FRIENDS

Summer/Fall 2002

Chair's Message, Gary B. Anderson, Chair



The past year in history is one that most of us will long remember. Our lives continue to reflect a new or renewed view of that which previously we may have taken for granted. We acknowledge and take pleasure in people and events important to us. The Department of Animal Science

acknowledges the support of our friends and alumni and takes pleasure in maintaining this contact through *Highlights*. We are especially happy to tell you about two new faculty who have joined the department and whose cutting-edge programs will help to keep the UC Davis Animal Science Department a national and international leader. We celebrate the prestigious awards received by faculty, staff and graduate students; we are particularly proud of the recognition our department has received for putting students and their education at high priority.

You will read also how our faculty, while meeting the needs of an ever-growing student populations, continue to make new discoveries through research. We sadly write about the loss of our beloved Dr. O but take comfort in his legacy living on through contributions made to the Kratzer, Ogasawara and Vohra Scholarship. We also provide an update on progress toward establishment of a student award to honor the late Dr. Ian Garnett, a popular member of the Animal Science faculty who unexpectedly passed away last year. Finally, we say farewell through retirement to one faculty and three staff members who collectively represent 127 years of loyal service to UC, most in the Department of Animal Science. We appreciate our loyal friends and alumni, and we are pleased to send *Highlights* to keep you informed of developments in your department. If we can assist you in any way, please contact me at (530) 752-1251 or email me at gbanderson@ucdavis.edu .

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Dietmar Kueltz Hired as Physiological Genomics Professor



Dietmar Kueltz recently joined the faculty as an Assistant Professor of Physiological Genomics with specialization in responses of animal cells to environmental stress. Physiological genomics is an area of biology that emphasizes the functional characterization of gene products and genetic processes.

Dietmar moved here from the Whitney Marine Laboratory at the University of Florida, where he had been an assistant professor of physiology and functional genomics since 1998. Born in Storkow, Germany, Dietmar completed his university education at the University of Rostock in that country before coming to Oregon State University in 1993 for postdoctoral research in adaptive energy and protein metabolism of marine fishes and invertebrates. Two years later he moved to the National Institutes of Health in Bethesda, Maryland, as a Fogarty Visiting Fellow in the Kidney and Electrolyte Metabolism Laboratory, and then in 1998 to the Whitney Marine Laboratory.

Much of Dietmar's work has focused on characterizing the factors involved in the stress response of epithelial cells in marine animals and of mammalian kidney cells. He is particularly interested in the cell's response to osmotic stress. In addition, he has worked on cellular responses to ultraviolet radiation, heavy metals and heat stress.

At UC Davis, Dietmar is looking forward to continuing his research on cellular osmoregulation in animal cells. He will also continue to work on cellular responses to ultraviolet radiation, heat and other environmental stresses. His research projects are currently supported by the National Institutes of Health, the National Science Foundation, and the Mount Desert Island Biological Laboratory. He has also been a recipient of research grants from the German Science Foundation and the Howard Hughes Medical Institute.

He will begin his teaching in a departmental molecular biology course.

Dietmar's wife, Simone, has also joined UC Davis as an international student advisor; their son Anton, 12, attends Holmes Junior High School in Davis.

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Alison Van Eenennaam Named Animal Biotechnology and Genomics Extension Specialist



Alison Van Eenennaam was appointed as the Animal Biotechnology and Genomics Extension Specialist for the department in September. Her appointment includes both Cooperative Extension (75%) and research (25%). She has an extensive background in genomics, extension and animal production that is ideally suited for this position.

She is no stranger to the department having earned both a master's degree in Animal Science (1990) and a doctorate in Genetics (1997) while working in the laboratory of Dr. Juan Medrano.

Born in Australia, she completed a Bachelor of Agricultural Science at The University of Melbourne in 1987. She spent her final undergraduate year at UC Davis as a part of the International Study Abroad Program. Following her bachelor's degree she worked as a development scientist for an Australian animal health company where she was involved in the development of products for the enhancement of growth in beef cattle.

Alison returned to Davis in 1989 to begin her Master's program and to carry out research on milk proteins in California dairy cattle. In 1991 she commenced work as a UC Cooperative Extension Dairy and Livestock Farm Advisor in San Joaquin and Sacramento Counties. During her three years in this position she developed a regional outreach and educational program for dairy and livestock producers. She also carried out applied research focused on the efficacy and economics of alternative therapies for the treatment of clinical mastitis caused by environmental pathogens.

Alison began work on her doctorate in Genetics at UC Davis in 1993. Her Ph.D. research focused on the sex determination mechanism of white sturgeon. Domestic white sturgeon is an important commercial species in California and the production of caviar from female fish is complicated by the fact that it is difficult to distinguish between the sexes in this species. Her dissertation research provided evidence of a genetic basis of sex determination in this species but found an absence of sex-specific genetic markers that would allow for the rapid identification of sex in immature sturgeon. Upon completion of her doctorate Alison spent four years at the Calgene site of Monsanto as a research scientist in their genomics group. Her research there focused on using various high-throughput genomic techniques for the identification and functional testing of genes with putative roles in metabolic paths of interest.

In her role as an Animal Biotechnology and Extension Specialist, Alison plans to develop an integrated extension and research program including the development of unbiased educational resources on animal genomics and biotechnology. In this capacity she will interact and work with the many different groups that have an interest in animal genomics and biotechnology. She is interested in developing model animal systems to demonstrate the principles and concepts of transgenic modifications. She is also

interested in examining the opportunities that exist to transgenically modify biochemical pathways to improve the quality of animal products for consumers.

Alison's husband of 13 years is Joel Van Eenennaam who also works in the department as a Staff Research Associate in the laboratory of Dr. Serge Doroshov. They have two children, Kyle, 4, and Alec, 2.

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Juan Medrano Wins Guatemalan Science and Technology Award



Juan Medrano, Animal Science professor, recently traveled to his home country to receive the 2001 Medal of Science and Technology of Guatemala in recognition of his research achievements. The vice president of Guatemala and the head of Congress presented him with the award. Dr. Medrano was the fifth person to be awarded this medal, which is given annually as a competitive honor for which candidates are nominated by fellow scientists.

The award ceremony was held on July 21, 2002, in Guatemala City at a formal presentation by the Guatemalan Congress. Juan presented a short scientific talk that gave an overview of the significance of genomics in modern biology, including descriptions of his research on the genetics of animal growth with the high-growth mouse and the modification of milk composition. The formal ceremony was followed by a social gathering attended by Juan's mother, his wife Barbara, family members, close friends, representatives from the Guatemalan universities, members of the

Commission of Science Technology and three of the previous recipients of the medal

Dr. Medrano was born in Guatemala City and grew up associated with agriculture and cattle farming. He studied agriculture at the Panamerican School of Agriculture in El Zamorano, Honduras. Juan graduated first in his class and obtained a scholarship to study at UC Davis where he completed a B.S. in Animal Genetics, an M.S. in Animal Science and Ph.D. in Genetics in 1975. Upon completion of his Ph.D., Juan returned to Guatemala for 10 years where he taught at various universities, completed post-doctoral study at the Institute of Nutrition for Central America and Panama and managed cattle, corn, rice, and sugar cane on his family's farm for approximately five years. He returned to UC Davis in 1985 as an Assistant Professor of Animal Genetics to develop a program in Physiological and Molecular Genetics. He and his wife Barbara have three children, Feliza, Antonio and Juan Miguel.

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Animal Science Faculty, Staff and Students Win Top Campus Teaching Awards



Anita Oberbauer received the Academic Senate's Distinguished Teaching Award for 2002

Professor **Anita Oberbauer** was selected as recipient of the Academic Senate's 2002 Distinguished Teaching Award. Her award, presented in June at a meeting of the Representative Assembly of the Senate, recognizes her strong contributions to undergraduate and graduate teaching. Several years ago, at the department's request, Anita redirected her teaching to develop a core of courses in companion animal biology for which students were clamoring. Enrollment in these courses has skyrocketed and is limited by the size of available lecture halls. Anita was also recognized for her mentorship and guidance of graduate students.

Anita joins several Animal Science colleagues as recent recipients of this prestigious, campuswide award. Dr. Ed DePeters won the award in 1998, Dr. Tom Famula in 1999 and Dr. Tom Adams in 2000. Dr. Gary Anderson, department chair, was awarded this prize in 1991 as well as the UC Davis Prize for Undergraduate Teaching and Scholarly Achievement in 1997.

This year, **Dana Van Liew** received the Academic Federation's Award for Excellence in Teaching. In addition to serving as manager of the campus sheep facility, Dana teaches several undergraduate animal evaluation courses. Outside the classroom he coaches the livestock judging team, allowing him to meet many future agricultural leaders across the state and entice them to enroll at UC Davis. Dana has long lived his belief that students matter, and we are proud to have him recognized as another distinguished

teacher in the Department of Animal Science. In 1998, Alida Morzenti, also from this department, received this award.

Our students also excel in campuswide teaching. Animal Science graduate student **Jeffrey Mason** received the 2001-2002 Distinguished Graduate Teaching Award. Presented in June by Chancellor Larry Vanderhoef, these awards are given annually to graduate student teaching assistants who have demonstrated outstanding teaching skills and dedication to their students. Jeff is working on his doctorate in reproductive physiology with Professor Anderson.

No other campus department has had faculty receive the Academic Senate Award three years in a row nor has another department won the Senate, Federation and graduate student teaching awards in the same year. These awards demonstrate the department's true dedication to delivering the highest quality instruction to our students.

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Frank X. Ogasawara (1913-2002)



Frank X. Ogasawara, Professor Emeritus of Avian Sciences, died of cancer on June 8, 2002, at the age of 88. He was born in San Diego in 1913 and raised in Battle Mountain, Nevada. After receiving a bachelor's degree in poultry science in 1949 from UC Berkeley, he attained his doctoral degree in comparative physiology at UC Davis in 1957. In 1959, he joined the faculty here as assistant professor in the Department of Poultry Husbandry. He remained in the department (later renamed Avian Sciences) until he retired in 1983.

Dr. O, as he was known to his students, was a pioneer in developing methods to artificially inseminate domestic turkeys, now standard practice for most of the 250 million turkeys raised in the US annually. Selecting for large breast size in turkeys had rendered males too large and clumsy to mate naturally and without injury to females. For many years, Dr. O taught turkey breeders around the world how to apply his artificial insemination technique. He also discovered that female turkeys are able to store viable sperm in their oviducts for weeks after a single fertile mating. Dr. O wrote more than 80 scholarly publications.

In 1972, Dr. O established the California Raptor Center at UC Davis. The center cares for birds of prey that have been injured in the wild. It also has an important educational function by providing work opportunities for student interns and volunteers, and it regularly hosts many visitors and school groups interested in hawks and owls.

Dr. O's career was marked by many awards, including the National Turkey Federation's Outstanding Research Award in 1966 for his work on avian artificial insemination and the Poultry Science Association's Ralston Purina Outstanding Teacher Award in 1976. In 1982, he was named a Fellow of the Poultry Science Association and in 1991, an honorary member of the Japan Zootechnical Society.

Dr. O was a selfless mentor and volunteer in both his professional and private life. He shared his research expertise with counterparts in Japan, Scotland, Brazil and China. He was chair of a USDA-sponsored national turkey research study committee (1978-79) and general chair of the Poultry Science Association's annual meeting at UC Davis in 1982. He was the major professor for four Ph.D. and nine M.S. students and was an outstanding undergraduate advisor for more than 500 students in his career. Many campus and community groups benefited from his volunteer work, including the Honor Society of Phi Kappa Phi, the Davis Chapter of AARP and the Catholic Community at the Davis Newman Center.

He is survived by his wife of 57 years, Kay Ogasawara of Davis; two daughters, Pam Ogasawara of Urbana, Md., and Patty Sunui of Sacramento; a son, Paul, of Sebastopol, and five grandchildren.

Approximately \$10,000 has been donated to the Kratzer, Ogasawara and Vohra Scholarship Fund in memory of Dr. Ogasawara. Income from this endowment is used to provide scholarships to undergraduate and graduate students studying avian sciences. To make a donation to this endowment fund, please make your check payable to the UC Regents and send it to the Department of Animal Science, One Shields Ave., University of California, Davis, CA 95616.

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Show Teams Win at State and County Fairs

Over the summer student dairy herd managers **Sarah Thomas** and **Sara Harrison** led the UC Davis Dairy Show Team to one of its most successful years ever. The team, including members **Elizabeth Abell**, **Lisa McDonnell**, **Kate Platt** and **Gina Wall**, attended five fairs beginning in May. At the Dixon May Fair and the Sonoma-Marin County Fair in Petaluma the team provided educational information to the public about the dairy industry as well as bringing several individuals of various dairy breeds for side-by-side comparison.



Sarah Thomas and Sara Harrison express their delight over showing the Grand Champion Guernsey at Sonoma County Fair

The team showed animals at the Sonoma County Fair in late July and were delighted to take home ribbons for the Grand Champion Guernsey and Reserve Grand Champion Jersey out of two very competitive groups. Both animals were also judged to have the best udders in their class. The team also received the second place herdsman award. At the Yolo County Fair in Woodland in mid-August the team's three-year-old Holstein won the Grand Champion ribbon, while the team earned the first-place herdsman award.

At the California State Fair in late August the Guernsey took third in her class and third-place udder while the Jersey took first in her class and first-place udder. The team also took the second-place ribbon for the herdsman award there.

The Sheep Show Team, with **Gillian Ferguson, Darcy Machado** and **Elisa Noble**, took second place for fall-born ewe lambs and first place for December ewe lambs at the Suffolk All American (500 head in show) held in Reno Livestock Center on Memorial Day weekend.

The 2002 Goat Show Team included **Erika Scharfen, Jolene Berg, Maureen Hyman, Tracy Dolan, Lauren McDonald** and **Sophia Najera**. The team attended the Solano County Fair, Sonoma County Fair, California State Fair, the Redwood Empire Dairy Goat Association Memorial Day Show and the International Boer Goat Association Regional Show in Red Bluff. The Boer goat herd won Grand Champion Junior Buck and Reserve Champion Yearling Percentage Doe at the Red Bluff show and Reserve Champion Yearling Percentage Doe at the Solano County Fair. The dairy goats won 10 Champion and 12 Reserve Champion awards during the 2002 show season.

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Cal Aggie Spring Jackpot



On May 18 students from UC Davis held their second annual Aggie Spring Classic Jackpot Show at the Dixon Fairgrounds. For a small entry fee, returned as prize money, hundreds of California youths came and exhibited their livestock. Breeders and livestock enthusiasts donated numerous other awards. More than 250 exhibitors brought 325 animals including sheep, goats, beef cattle and pigs.

Planning for the event was started in September 2001 by the Young Cattlemen's Club, most of whose members are Animal Science students. They set a budget, outlined their goals and later added an option for students to earn units for the activity, attracting a wider range of students. They worked on fundraising, budgeting, purchasing awards, contract negotiations, advertising and scheduling of the event. More than 45 students and numerous faculty and staff helped to make the second annual Aggie Spring Classic a huge success. Undergraduates **Katrina Inchauspe, Garrett Pedretti, Jamie Frayne, Gill Ferguson, Erika Sharfen** and **Darcy Machado** were some of the key leaders for the event. Next year's event is tentatively scheduled for May 17.

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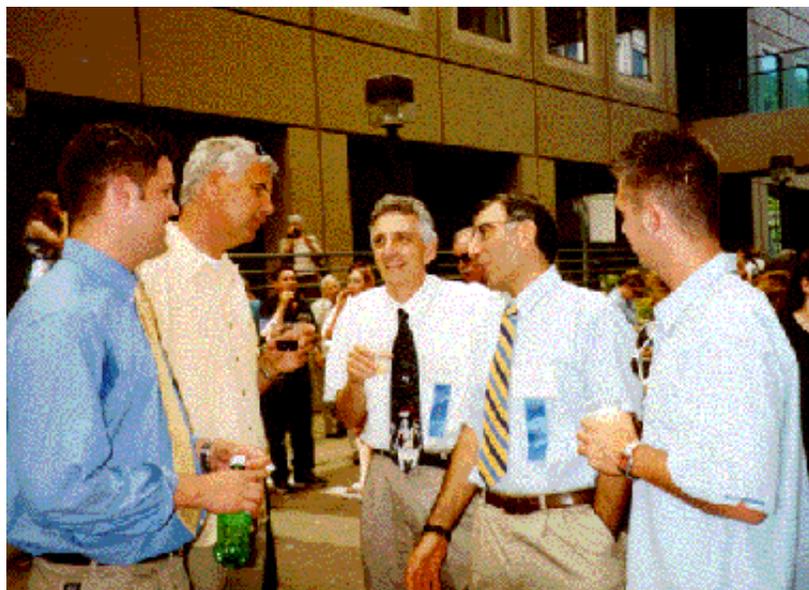
Record Number of Animal Science Students Graduated

Graduation exercises were held for undergraduates in College of Agricultural and Environmental Sciences majors on June 16, 2002. A record number of students in the three animal science majors received their Bachelor of Science degrees in the 2001-2002 academic year:

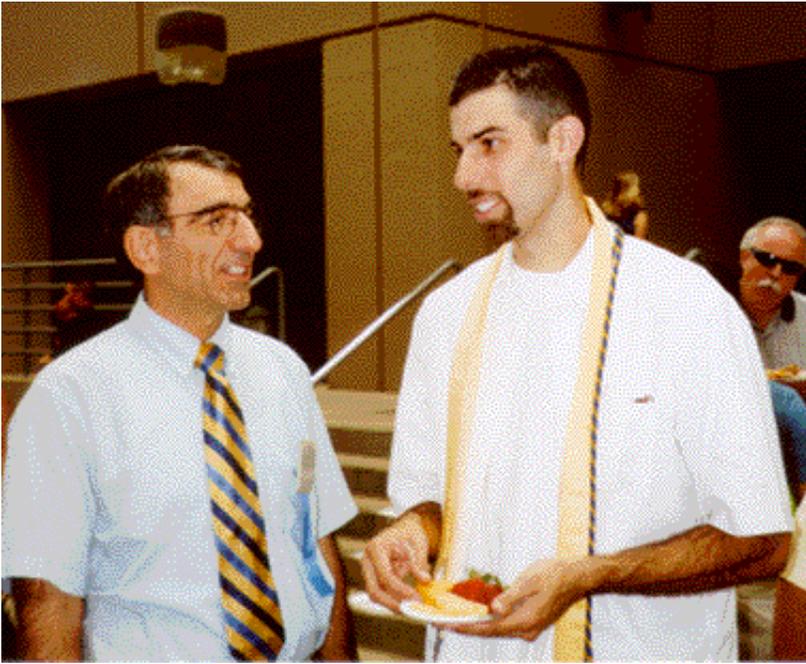
- Animal Science - 99
- Animal Science & Management - 20
- Avian Sciences - 5

After the ceremony, a reception was held in the Meyer Hall breezeway for graduates and their parents, friends and professors.

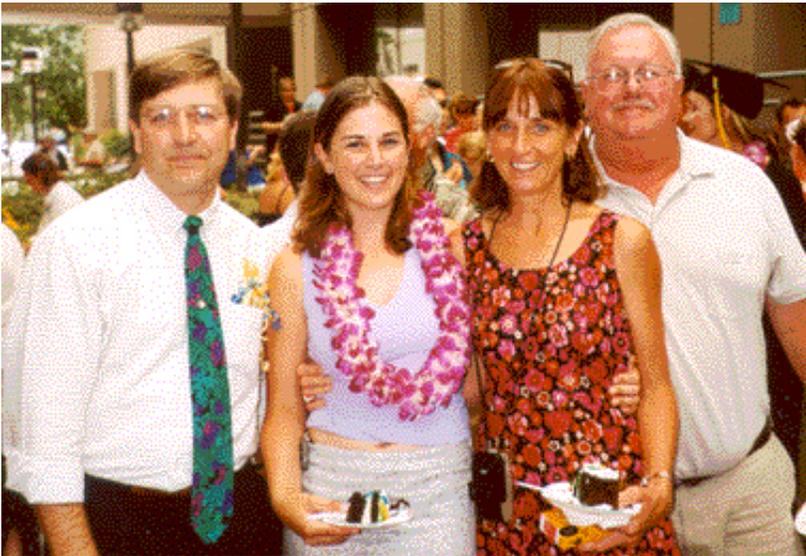
CONGRATULATIONS, GRADS!



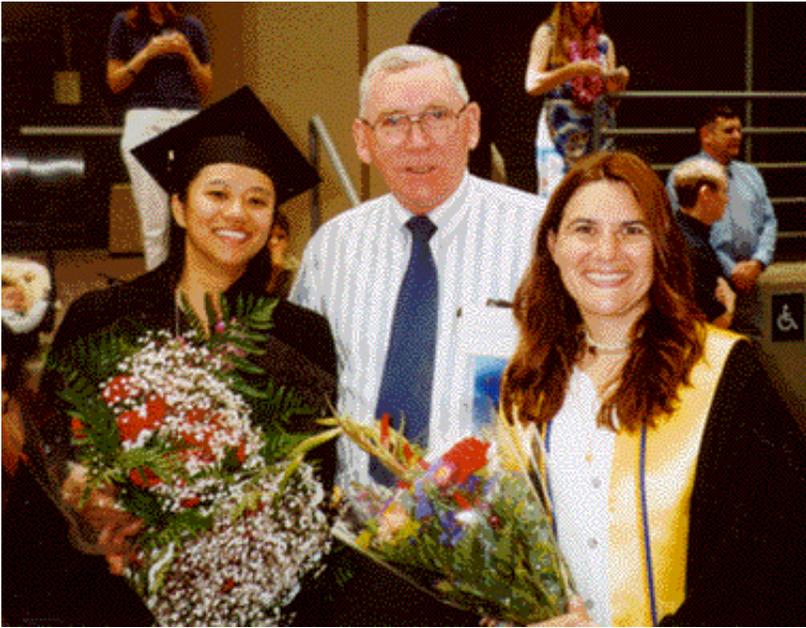
Mike Ballou (left), his father **Ron**, and his brother **Matt** (far right) meet with popular Animal Science faculty **Ed DePeters** (center left, recipient of the campus' 1998 Distinguished Teaching Award) and **Jim Fadel**. Mike is continuing his animal science studies as a Ph.D. student working with Dr. DePeters.



Graduating senior **Derek Wright** (right) talks with Professor **Jim Fadel** at the commencement reception. Derek served as peer advisor during the past year, helping other students with their course schedules and answering questions. Dr. Fadel has assumed leadership of the Animal Science and Animal Science and Management majors as their master advisor.



Others attending the commencement reception included **Emily Basham** and her parents **Mr. and Mrs. Tom Basham**, shown here with Professor **Tom Famula** (left, recipient of the campus' 1999 Distinguished Teaching Award).



Professor **Graham Gall** poses with new graduates **Sindy Wan** (left) and **Corine Graham** (right). Dr. Gall served as master advisor for the Animal Science major from 1992 to 2002.

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Faculty Receive Numerous Grants

Over the years state funding in support of agricultural research has decreased. The recently approved California budget contains a 10 percent cut in state-funded agricultural research. To maintain strong research programs, Animal Science faculty must rely increasingly on funds from non-state sources. Our faculty's ability to compete for extramural funds demonstrates the high quality of departmental research programs. The following list includes new grants to Animal Science faculty.

Dr. **Mary Delany** received a three-year grant for \$225,000 from the USDA Animal Genome and Genetic Mechanisms Panel for work on telomere array organization and telomerase function in the chicken.

Drs. **Joy Mench**, **Anita Oberbauer** and **Francine Bradley** received a USDA grant for \$215,000 to study behavioral activity in broiler chickens and its effects on the incidence of skeletal problems. Dr. Mench also received \$55,098 from the Kenneth A. Scott Charitable Trust to assemble printed and web-based materials to help animal shelter personnel recognize serious illnesses or injuries among animals in their custody.

Dr. **Dennis Hedgecock**, Bodega Marine Laboratory, was awarded a four-year, \$422,134 grant from USDA in support of the Western Regional Aquaculture Center to study crossbreeding of Pacific oysters for high yield. He also received \$400,000 from CalFED (US Fish and Wildlife Service) for a grant entitled, "Using Molecular Techniques to Preserve Genetic Integrity of Endangered Salmon in a Supplementation Program," as well as a \$150,000 grant from the California Sea Grant program, "Meiosis in Tetraploid Pacific Oysters, Their Triploid Mothers, and Diploid Grandmothers."

Dr. **Tom Adams** received a grant from the USDA for \$235,000 to support continuing studies that examine the impact of stress on reproductive function in domestic species. He and his graduate student **Dorena Rode** received a three-year grant from the National Institutes of Health for \$70,800 to study the effect of phytochemicals (bioactive chemicals that occur naturally in plants) on reproductive function in sheep.

Drs. **Deanne Meyer** and **Peter Robinson** received a grant from the State Water Resources Control Board for \$127,000 to develop a template to estimate nutrients excreted from dairy cattle at commercial dairies in California.

Dr. **Doug Conklin** received a \$25,000 UC MEXUS-CONACYT Collaborative Grant, "The California Halibut Aquaculture Research Consortium: An initiative to make possible the commercial culture of the *Paralichthys californicus*."

Professor **Tom Famula** was awarded \$9,000 from Guide Dogs for the Blind to advance the health and temperament of guide dogs with a planned breeding program

Dr. **Joe Garner**, working with Professors **Joy Mench** and **Jim Millam** received an NIH grant for \$148,438 entitled: “A Mouse Model of Autistic Repetitive Behavior.

Professors **Kirk Klasing** and **Chris Calvert** were awarded a USDA grant for \$200,000. The title of the grant is “Nutritional Immunomodulation by Dietary Carotenoids in an Avian Model.”

Dr. **Bernie May** received \$25,590 from the US Fish and Wildlife Service to fund a project titled “Assessment of Genetic Variation between Coastal Steelhead Populations Associated with Different Run-Timings.”

Dr. **Wolfgang Pittroff** and collaborators from other departments received \$99,330 from the California Department of Food and Agriculture to study yellow star thistle control.

Dr. **Anita Oberbauer** received \$21,000 from the American Kennel Club Canine Health Foundation to characterize the inheritance of Addison's disease and linked DNA.

Professors **Jan Roser** and **Trish Berger** were awarded a USDA grant titled “Decreasing Estrogen: Androgen Ratio in Porcine Testicular Development” for \$230,000. Dr. Roser also received a \$51,000 grant from the Grayson-Jockey Club Foundation, “Production and Efficacy of Recombinant Equine Gonadotropins.”

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Funds Solicited to Establish Award to Honor Ian Garnett

Until his death last year, Dr. **Ian Garnett** was a popular instructor and advisor in Animal Science. Ian joined the faculty in 1990 to invigorate the professional master's degree program, the Master of Agriculture and Management (MAM), and trained more than 25 professional managers through the MAM program. Ian also taught a number of undergraduate management and high-enrollment courses in Animal Science. In 1999 he was honored with the Outstanding Advisor Award from the College of Agricultural and Environmental Sciences.

In recognition of the students and lives whom Ian touched the department has proposed to establish the Ian Garnett Award, which will be given annually to a student who exemplifies the values of scholarship and good citizenship that Ian lived. Before a perpetual award can be established, a minimum corpus required to establish an endowment must be reached. Contributions and gifts to date leave us about \$4,000 short of funds required for an endowment, and additional gifts are being accepted. Anyone who wishes to make a fully tax-deductible donation to the Ian Garnett Award Fund, regardless of whether a previous donation was given, may send a check (payable to the UC Regents) to the Department of Animal Science, One Shields Avenue, University of California, Davis, CA 95616. We look forward to being able to announce in a future *Highlights* that we have reached our goal required to establish the Ian Garnett Award.

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Professor Ed Price Retires

Professor **Ed Price** retired July 1, 2002, after serving the department for 26 years. Ed was hired in 1976 to initiate a program of teaching and research in animal behavior. He developed three undergraduate animal behavior courses: an introductory behavior course that focused on the basic principles governing the behavior of domestic animals, an advanced behavior course that showed how these basic principles could be applied to improve the management and well-being of domestic animals and a laboratory course that trained students to conduct behavior research and to present their findings in written and oral media.



Ed's research concentrated on the reproductive behaviors of cattle, sheep and goats. His research on fostering techniques in sheep and fenceline weaning in beef cattle has been widely adopted by producers. His studies on the development of sexual and social behaviors of cattle, sheep and goats have provided new management tools to improve reproductive efficiency in these species.

Ed has been active in the Animal Behavior Society and served as its president in 1980-1981. He is also a member of the International Society of Applied Ethology. He served as Associate Dean of the College of Agricultural and Environmental Sciences in 1985-1986 and as department chair in Animal Science from 1993-1998. He has recently written a book entitled *Animal Domestication and Behavior*, to be released in November (CABI Publishers).

Ed and his wife Mabell (Marti) now live in Rocklin, as does their daughter Lauralee and her family. Their son Ted and his family are in San Jose.

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Staff Members Retire After a Combined 101 Years!

Mary Horton, a long-time Animal Science staff member, retired October 1. She spent most of her adult life with the department, receiving her B.A. in 1963 and M.S. in 1966, both in Animal Husbandry. She started working for Dr. Harold Cole in 1963, breeding pony mares and collecting pregnant mare serum (PMS). She helped develop the second international standard assay for PMS and measured gonatotropins using a rat bioassay. She graded papers for Dr. Cole's Introductory Animal Science class of 200 to 300 students.

Mary worked for Dr. Perry Cupps until he retired in 1982, mostly with dairy cattle, incubating ovarian, adrenal or testicular tissue with radioactive hormones and separating, quantifying and identifying end products. Dr. Cupps was a leader in initiating the embryo transfer program at UC Davis in the early 1970s. When Professor Gary Anderson arrived (1974), Mary began working for him as well when he and Dr. Cupps collaborated on several twinning trials in cattle and sheep involving embryo transfer. In 1983 Trish Berger inherited Mary, and she learned the successes and frustrations of semen collection in swine. Mary did a number of in vitro procedures using sperm from several different species and hamster or pig eggs.

Mary was the department's safety coordinator since 1994 and Meyer Hall Common Teaching Space Supervisor since 1993. She also served as teaching coordinator for a year.

Mary plans to continue her swimming, including two swim meets in Greece in June 2003. She also teaches CPR and First Aid for the Red Cross. The next docent class for the UC Davis Arboretum will include her, and she is a new member of The Friends of the Mondavi Center, the recently completed performance arts theatre.

Alida Morzenti retired from the department in July after 30 years, mostly with Avian Sciences. After receiving her B.S. (1971) and M.S. (1974) degrees in Avian Sciences, she became a teaching and laboratory assistant in 1974 and was appointed lecturer in 1975. For three years she also taught night classes at Santa Rosa Junior College. Working with Dr. Ray Burger and Akin Orhun, she computerized the office of the Vice Chancellor for Academic Affairs. This followed the computer instruction that she and Dr. Burger offered to staff at the request of then dean Charles Hess.

Throughout Alida's career, birds have been her focus, particularly wild ones. In 1972, she helped Dr. Ogasawara start the Raptor Center. Alida belongs to many bird groups, including the World Center for Birds of Prey, the Raptor Research Association, Santa Rosa Bird Rescue, the Golden Gate Raptor Observatory, the International Wildlife Rehabilitation Council, the Yolo Basin Foundation and the Pacific Flyway Center. In 1998 and 1999, she was chair of the California Duck Days Committee Wetlands Festival. Currently she is director of the Cache Creek Conservatory.

Alida has written a dozen scholarly papers, often about raptors and their rehabilitation. Her dedication

was recognized by an Avian Sciences departmental award in 1971, special departmental performance awards in 1983 and 1988 and, significantly, a prestigious Excellence in Teaching Award from the Academic Federation in 1998.

Alida gifted herself with a trip to Italy this summer to visit her many relatives. She is revitalizing her grandparents' Sonoma County vineyard and returning to her first love of grape growing. She also manages the family properties in San Francisco

Eileen O'Farrell retired from the University in July after 32 years. For the past ten years, she assisted Dr. James H. Meyer, Chancellor Emeritus of UC Davis and former professor of animal nutrition, editing his manuscripts. She also edited the Animal Science newsletter, *Highlights*, and continues to do so, along with working on the department's facilities development and public relations.

Transferring in 1973 from the medical school at the University of California, San Diego, Eileen first worked in Davis for the Division of Family Practice, writing articles on the Family Nurse Practitioner movement. For 11 years she worked for Animal Resources Service, cataloguing buildings and animal space, editing veterinary manuscripts and writing an animal care protocol guide. After stints as editor in the Division of Clinical Nutrition and in Agronomy and Range Science, she met Chancellor Emeritus Jim Meyer at an Animal Science barbecue and applied for a vacancy in his office. "Dr. Meyer was the best boss ever," says Eileen.

Eileen and her husband Reid Borgwardt are eventually moving to Healdsburg to Reid's family farm with their horses and cattle. They enjoy foxhunting and three-day eventing. She plans to continue doing free-lance writing and editing.

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Notable Notes

Animal Science graduate student **Cindy Batchelder** was awarded the Hertzendorf Award by the Physiology Graduate Group at its annual Spring Colloquium. The Hertzendorf Award rewards scholarship and good citizenship. Cindy is working on a doctorate in reproductive physiology under the mentoring of Professor Gary Anderson. She is responsible for Rosie, the cloned calf (see note below).

Marcelo Bertolini was selected as recipient of the Loren Carlson Award in Physiology. The award goes to the Physiology student whose Ph.D. thesis is judged to be the best among those submitted during the year across the entire UC Davis campus. Marcelo's research was designed to determine why some calves produced by in vitro fertilization procedures have excessively high birth weights. In addition to a plaque on display in the Carlson Health Sciences Library, Marcelo received a stipend award.

Sara Shields, an Animal Behavior Graduate Group Ph.D. student working in the laboratory of Dr. Joy Mench, won the award for best graduate student paper at the 36th international congress of the International Society for Applied Ethology in Egmond-Am-Zee, the Netherlands.

Cloned Calf Doing Well

The Department of Animal Science celebrated the birth of a cloned calf on May 2, 2002. The calf named Rosie, was produced by removing the genetic material (contained in the nucleus of a cell) from a cell taken from a Hereford cow and inserting the nucleus into an unfertilized egg of another cow. The resulting embryo transferred to the reproductive tract of a third cow that carried the pregnancy to term.



Rosie was born as part of Physiology Ph.D. student Cindy Batchelder's graduate research designed to study the effects of different cell types on the success of the cloning procedure. On September 12, another cloned calf, Ruby, was born from a different cell type from the same cow, making Rosie and Ruby identical twins and clones of the original donor cow. Rosie appears to be normal and has gone to

live in Petaluma at Pfendler Ranch, which supported the cloning research and owns the donor cow. Ruby will remain on campus for several weeks while data on cloned calves is collected, and then she will join Rosie and the donor cow at Pfendler Ranch

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Help Us Update Our List!

Please help us update our address list and avoid waste! Have you had a change of address? Do you know any alumni or other friends who would like to be added to our list? Do you receive duplicate copies in your home? Hard to imagine, but would you prefer not to receive Highlights? Let us know! Email gbanderson@ucdavis.edu, call (530) 752-1250 or write to Department of Animal Science, One Shields Avenue, University of California, Davis, CA 95616.
