

## Department of Animal Science

# HIGHLIGHTS

UNIVERSITY OF CALIFORNIA DAVIS, ONE SHIELDS AVENUE, DAVIS, CA 95616, 530-752-1250

### Chair's Message



*Mary E. Delany*

Dear Alumni and Friends:

I will begin my first message by thanking **Gary Anderson** and the former vice chairs **Jim Millam** and **Chris Calvert**. Their stewardship of the department over the last seven years is very much appreciated by all. They left their administrative posts with the department in excellent shape for the future.

The new vice chairs are **Anita Oberbauer** and **Tom Famula**. Their successes and contributions as researchers and educators have been chronicled in this newsletter time and again – both were recipients of the campus Distinguished Teaching Award and both have served the department and campus on numerous committees. It is our good fortune that they said “yes”!

The last few months have been quite interesting; I must admit that it is more than a little surprising to find myself writing this chair's message to you. Each day brings home to me what a terrific department we have; and I am deeply honored by the confidence and support of my

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### Professor Mary Delany Appointed as New Department Chair

The chair's office of the Department of Animal Science has a new occupant! Professor **Mary E. Delany** assumed the responsibilities of chair on July 1, 2005, taking over from Professor **Gary B. Anderson**, who finished seven years of noteworthy service. The department is large, it manages extensive animal facilities, and it supports a complex mixture of interdisciplinary research, outreach, and teaching. Chairing the department is extremely demanding. We thank Gary for his outstanding work and tireless efforts on our behalf! We express

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*Former chair Gary Anderson, right, has worked closely with new chair Mary Delany during the transition. B. May photo.*

### In Passing...Bob and Dorothy Laben

We are saddened to report that Animal Science Professor Emeritus **Robert C. Laben** and his wife **Dorothy L. Laben** passed away on August 7, 2005. While out for a Sunday drive, the couple became stranded on a remote Yolo county road, just northwest of Cache Creek Casino Resort. With temperatures reaching 100°, Bob and Dorothy died of heat exhaustion and other natural causes; they were 84 and 91, respectively. As friends and alumni know, these two individuals were among the department's greatest supporters. During Bob's tenure as a faculty member, his research included the environmental impact of DDT on the dairy industry and the food supply in an effort to reduce the presence of pesticides in milk. After he retired in 1986, he increased his community involvement. He and Dorothy were widely known for their unselfish efforts to feed the hungry, which consumed much of their daily activities. They touched the lives of numerous people, and they will always be remembered and missed by everyone who knew them.

In our next issue, we will remember the Labens more formally and completely. The department is planning a celebration of their lives and contributions. Many alumni and friends have contacted the department about memorial donations. Two possibilities are included on the enclosed gift form. The Undergraduate Education Enhancement Fund was established in the 1980s as part of the university-wide Students First Campaign. The Labens were great supporters of this fund to promote extra-curricular opportunities for students to complement and broaden their academic training. The Robert and Dorothy Laben Undergraduate Scholarship Fund was established in 1993 by the late Chancellor Emeritus Jim Meyer to honor the Labens' contribution to undergraduate student education.

**Fall 2005**

## Companion Animal Courses Expand

In the late 1980s and early 1990s, the background of Animal Science students began to diversify. In parallel with the traditional demand for training in livestock species, student interest in companion animals intensified. Consequently, the Animal Science department asked Professor **Anita Oberbauer** to develop an introductory course in Companion Animal Biology. This whole-animal biology course, using companion animals as models, also serves the UC Davis campus as a General Education science elective. Enrollment in the course expanded, as did the number of Animal Science majors who chose to focus on companion animals. The curriculum of the major was modified so Animal Science majors could specialize in companion animals while still taking basic livestock courses and gaining an appreciation of the needs of California agriculture. Dr. Oberbauer went on to develop an upper division course in Companion Animal Care and Management.

With this expanded curriculum, the Animal Science department's presence in the field of companion animals increased. Clinicians at the UC Davis Veterinary School began to collaborate with Animal Science Professors Oberbauer and **Tom Famula** for analysis of data on canine health disorders, starting the emphasis on canine genetics research in the Animal Science department. Animal Science undergraduates studying companion animals proved indispensable in assisting with data collection, organizing the mass of data and helping with analyses on the many different projects. Many students elected to receive internship credit for their efforts. The dog health disorders were analyzed using classic approaches to animal breeding that had originally been developed to improve livestock production traits. This has enabled the development of concrete recommenda-

tions for breeders to implement. For example, the prevalence of deafness in Dalmatians can be minimized by not breeding blue-eyed dogs.

The initial studies led to additional research requests, prompting the formation of the Canine Genetic Analysis Project. Drs. Famula and Oberbauer focus on analyzing canine traits, determining their heritability and, if warranted, utilizing ever-expanding genomic tools to develop genetic marker tests. Ongoing research projects include characterizing the genetics of epilepsy and Addison's disease in numerous dog breeds, developing selection tools and criteria to improve success rates for dogs used as guide dogs for the visually impaired and contributing to improved genetic understanding of overall health in the dog.

The Animal Science companion animal research and teaching program, representing a union of student interest and public demand, has been recognized nationwide as a leader in the field.



*Dr. Oberbauer receives the ASAS Corbin Companion Animal Biology Award from James E. Corbin, Professor Emeritus of Animal Science, University of Illinois, for whom the award was named.*

## Anita Oberbauer Receives Corbin Companion Animal Biology Award

In recognition of her excellence in research in genetic disorders in dogs and teaching in companion animal biology, Professor **Anita Oberbauer** received the 2004 Corbin Companion Animal Biology Award from the American Society for Animal Science (ASAS). The award, sponsored by the Iams Company and presented during the July 2004 ASAS meeting in St. Louis, recognizes meritorious scientific contributions in teaching, research and other service to companion animal biology.

Dr. Oberbauer has been at the forefront of the move to include companion animals in animal science teaching and research. In 1993, she developed and taught Companion Animal Biology, a lower-division course that was extremely well received, then developed a new upper-division course, also enormously successful. Dr. Oberbauer designed her courses to include the full range of companion animals, including rodents, rabbits, ferrets and even reptiles and fish. Her course outlines have been used by animal science departments across the U.S. wishing to establish their own successful curricula in companion animal biology. The campus recognized her exceptional teaching by honoring her in 2002 with a prestigious UC Davis Distinguished Teaching Award. She helped to establish the undergraduate Companion Animal Club in the Department of Animal Science and served as the club's faculty advisor.

Dr. Oberbauer leads a well-funded research program in mapping of canine genetic disorders. Her work first focuses on learning whether a particular disorder is indeed heritable. Once a genetic basis is confirmed, pedigree data are evaluated to assess the likelihood that a molecular marker linked to that disorder can be identified. Next, linkage of the inherited trait with

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## Protest Gas Prices: Ride a Horse to Work!

The 2005 Foal Auction, held on June 25 at the Horse Barn arena across from Meyer Hall, raised more than \$20,000 to support departmental teaching, research and outreach in the equine sciences. The prices received for each animal were above industry averages including our high-selling animal, a molly mule that garnered \$3,250. If you missed buying a horse or mule this year, next year's Foal Auction will be held the last Saturday in June, as it has been for almost 15 years. Mark your calendar—June 24, 2006!

The success of the Foal Auction depends on the hard work of many people, especially the Horse Barn's undergraduate interns. The stud managers are responsible for breeding the mares and handling, collecting and marketing the stallions. The foal managers, as their final exam, prepare the foals for the auction. Each student is assigned several yearlings, which they work with daily to train to perform several tasks. These include standing tied, being groomed and bathed, receiving medical care, loading into a trailer and standing for the farrier. Students exercise the yearlings regularly. Foal managers also have the opportunity to take their horses to several halter shows in the area.

Most horses and mules in the auction are yearlings, which means that three years' worth of interns invest enormous time and effort into each animal. One group of interns breeds mares in the spring, a second group foals the mares a year later and a third group trains the foals as yearlings. Riding horses are tuned up for the sale by stud and foal managers.

Each year, auction attendance ranges from 50 to 125, including people from the equine community both out of state and local, former students, breeding clients and trainers.



*UCD Kiss My Jackson, a palomino molly (female) mule by our jack, Action Jackson, is shown to the crowd by Kari Walsh, a foal manager. N. Webster photo.*

These horses continue on to various lifestyles including competition, breeding and being pleasure horses. Individuals responsible for the production of this year's auction included **Nicole Webster**, **Dan Sehnert** and **Jan Roser**, who rode herd on the event and ensured its success. UC Davis alumnus **Dan Macon** provided auctioneer services, and **Matthew Livingston** coordinated another fabulous pre-sale BBQ.

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## Davis Students Win CAMP Competition

During February, three UC Davis students traveled to California State University at Chico with **Matthew Livingston**, our meat lab manager, to attend the annual California Association of Meat Processors (CAMP) convention. The students attended meetings and seminars discussing the many trends and challenges that face the meat industry. They also watched demonstrations on further processed meat products like ham, bacon and snack sticks. Prior to the convention, these students formulated three different sausages that they entered in the collegiate competition. Guided by our meat lab manager, the students

worked tirelessly on appearance, consistency and, of course, flavor in order to create potential champion sausages. The college competition is a challenging class, with top students from across California bringing a variety of excellent sausages for judging. UC Davis student **Joel Vilorio** won the grand championship with his Traditional Bratwurst. Awards of merit were extended to **Kate Platt** for her Hot Italian Sausage and **Andrew Kay** for his Jalapeno Chorizo. The students found the convention to be informative and rewarding and look forward to the challenge of participating again next year.

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## Did you know?

... that our outstanding departmental advising office assists more than 800 undergraduate students in four majors? During Fall 2005, we welcomed 321 new freshmen and transfer students! Staff advisor **Meghann Rubino** and four undergraduate peer advisors, **Amanda Schmidt**, **Kayla Winn**, **Valerie Wiles** and **Sara Leisgang**, provide services for majors in Animal Biology, Animal Science, Animal Science & Management and Avian Sciences. Each undergraduate is assigned to a faculty advisor, as well.

## College and Cooperative Extension Connections Encouraged by Conference

“Fostering AES/CE Connections in Animal Agriculture” was the title and focus of a day-long conference held June 14, 2005, at the UC Davis University Club. The event was designed to provide an opportunity for campus and county-based members of the UC Division of Agriculture and Natural Resources who work in animal agriculture to develop new connections and associations.

Planning was led by a team from the Animal Science Department (**Gary Anderson, Ed DePeters, Peter Robinson**), Division of Agriculture and Natural Resources (Bill Frost, Program Leader), School of Veterinary Medicine (Don Klingborg, Associate Dean) and Country Farm Advisors (Morgan Doran) along with support and coordination from staff spanning multiple units (**Tonya Fleming, Sophie Smith, Jim Brenner, Jan McCarthy**).

Participants included more than 75 people from the UC Davis Department of Animal Science and the School of Veterinary Medicine, the UC Riverside Entomology Department and the statewide Cooperative Extension system. Everyone came away with an increased awareness of significant issues. Challenges as well as opportunities for collaboration in animal agriculture research and extension programming were focal points of the conference.

Speakers on a variety of topics, small and large group communication sessions and informal discussion throughout the day reinforced the value of maintaining a vital “continuum” of research and extension to be able to solve serious current and future problems in animal agriculture. Creating and moving science-based knowledge from the lab to California’s allied animal agriculture industries involve Agricultural Experiment Station Scientists, Cooperative Extension Specialists and County Farm

Advisors.

Music for a pre-dinner social hour was provided by an ensemble from the Davis Senior High Orchestra “Las Tres Hermanas.” The conference culminated in a healthy dose of educational, multimedia entertainment provided by Carl Winters, Director of the Food Safety Program and Extension Food Toxicologist, Department of Food Science and Technology, including a lively “USDA” dance to the tune of “YMCA.”

The conference was a great success, thanks to the commitment and engagement of the planners and participants! A post-conference survey confirmed that meaningful connections were created and planning is underway for the Second Annual Conference to be held in 2006.

(The full list of conference planners along with additional conference details and speaker PowerPoint presentations can be found at [http://groups.ucanr.org/Animal\\_Agriculture](http://groups.ucanr.org/Animal_Agriculture)).



**Stephanie Larson**, Livestock and Range Farm Advisor, Sonoma and Marin counties; **Teresa Ward**, Farm Advisor, Stanislaus and San Joaquin counties; **Holly George**, County Director and Advisor, Plumas and Sierra counties; and **Doug Kuney**, Poultry Farm Advisor for Riverside, San Diego and San Bernardino counties, all dance to the music! M. Delany photo.



Cooperative Extension (CE) Specialist Fred Conte enjoys the conference with Agricultural Experiment Station (AES) professors Joy Mench and Jim Fadel. M. Delany photo.

### Address Updates?

Do you know any alumni or other friends of the department who don't receive this publication? Have you had a change of address? We'd like to correct errors and add new recipients to our mailing list if you can give us names and addresses.

Please update your mailing address by emailing us at [highlights@ucdavis.edu](mailto:highlights@ucdavis.edu) or by writing to the department.

## In Memoriam – Frank D. Murrill

**Frank De Vane Murrill**, 79, died on June 11, 2005.

Frank worked for the UC Cooperative Extension Service for more than 30 years, first as dairy advisor for Kern County and, after 1968, as dairy extension specialist at UC Davis. He retired from UC Davis in 1989, when he and his wife **Ruth** moved to Sutter Creek and he became an accomplished vintner. Many of us enjoyed Frank's wines over the years at various campus events. He would have been delighted to learn that Obscurity Cellars' 2002 "Old Man Murrill" Zinfandel won a gold medal at the 2005 Amador County Fair.

Frank was born in Plant City, Florida, on October 25, 1925, the fourth of seven children. He grew up on a strawberry farm and raised Angus cattle with his father for a few years, busy with 4-H, FFA and Boy Scouts. His family moved to Oakland where he graduated from high school in 1944. The war intervened, and Frank served in the Pacific with the 63<sup>rd</sup> Infantry Division of the Army. Returning to Oakland, he met and married Ruth while they were both studying at UC Berkeley. After transferring to UC Davis, they both continued their studies, Frank completing B.S. (1958) and M.S. (1965) degrees in the Department of Animal Husbandry while Ruth

finished a teaching credential. They began their family while they resided in Aggie Villa. Ruth taught in Greenfield and Davis, where she was a favorite teacher at West Davis Elementary and at the reopened Fairfield School in West Plainfield, just west of Davis.

Much of Frank's work was with the California Dairy Herd Improvement Association (CDHIA), encouraging dairymen, including those with goat dairies, to keep better production records using computers to manage animals more efficiently. A year's sabbatical was spent working for the National DHIA (part of USDA) in Beltsville, Maryland. The National DHIA honored Frank with its Distinguished Service Award for his service to the dairy industry.

While working at Davis, around 1978, Frank started the Dairy Goat Research Facility Newsletter, publicizing the department's dairy goat activities. Our present *Highlights* editor, **Eileen O'Farrell**, got her start in newsletters doing that piece, which included learning how to turn on a computer!

As Ruth said recently, reminiscing about their years together, "We always had time to play and work. Frank loved his work with cows and people. He could not have had a better job."

## Kudos to Faculty

Professor **Joy Mench** was recently appointed to a half-time position as assistant to the Institutional Official of UC Davis to advise on animal care issues. Dr. Mench's expertise as a faculty member and a member of the AAALAC Council positions her to provide sound advice to Vice Chancellor Stan Nosek to ensure a smooth preparation for AAALAC accreditation in three years.

Professor **Chris Calvert** received the Distinguished Teacher Award given by the Western Section, American Society of Animal Science, at this summer's meeting. Dr. Calvert teaches the two-quarter Animal Biochemistry and Metabolism course he developed specifically to integrate biochemistry and nutrition. He received the UC Davis Distinguished Teaching Award two years ago.

Professor **Juan Medrano** received the 2005 J.L. Lush Award in Animal Breeding from the American Dairy Science Association. This award is given annually to a geneticist who has made significant contributions to dairy cattle genetics.

Dr. **Alison Van Eenennaam** was selected to serve as a member of the USDA Advisory Committee on Biotechnology and 21st Century Agriculture. This national committee deals with questions and issues on biotechnology in agriculture, including national and international policies. Membership on this prestigious committee is highly selective, an indication of the nationwide respect Alison's Cooperative Extension program has earned in the short time she has been a CE Specialist in the department.

To learn more about her program, visit her web site at: <http://animalscience.ucdavis.edu/animalbiotech/>

### Check out our Web site:

<http://animalscience.ucdavis.edu/>

...where you can read past issues of *Highlights*, tour our facilities, see what classes are offered and learn about our faculty and staff. At the bottom of the list of available *Highlights* issues, you can even reach a handy form for making a donation to support some general or specific aspect of our program.

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## Chair's Message

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faculty colleagues and departmental staff, as well as campus administrators. I look forward to both serving and promoting our department. My overriding objective is simple: help shape the department for the future, while insuring that all the best of who we are and what we do remains the same.

The Department of Animal Science at UC Davis is remarkable in many ways. It is a collegial environment with dedicated faculty (n=44) and staff (n=67), with a wonderfully dynamic cohort of undergraduates (n>800) from four majors and graduate students (n=115) representing 13 different graduate groups. The animals we raise and care for in order to conduct our teaching and research missions are equally extensive and dynamic, encompassing domesticated and non-domesticated avian, mammalian and aquatic species. The department is extremely fortunate in the number and the dedication of our alumni and friends. Did you know that there are 3,900 persons who receive this newsletter? I hope we will hear from you and have opportunities to meet some of you along the way. In that regard, we have a new *Highlights* email address ([highlights@ucdavis.edu](mailto:highlights@ucdavis.edu)) for you to correspond with us; also you are invited to contact me directly at [medelany@ucdavis.edu](mailto:medelany@ucdavis.edu).

As always, we have changes on the horizon. Two faculty recruitments are underway, one in Mammary Gland Biology and another in Animal Behavioral Biology. Further, we are planning for a new position associated with the campus initiative in sustainable agriculture to fill the department's endowed Sesnon Chair. Facilities upgrades are back on the planning and

fund-raising boards as we move out of the budget crisis of the last few years.

Finally, I'd like to recognize and thank **Eileen O'Farrell** for her writing contributions and editing of *Highlights* over the last decade. Although she retired from the University in 2002, Eileen continued to work on *Highlights*. She is now ready to retire from these responsibilities; we wish her well and hope to see and hear more from her while she enjoys retirement.

I'll close with a "stay tuned" message. The 2005-06 academic year is in full swing with many activities being planned – we'll update you in the next *Highlights* issue, which will have a different format and appearance! Look for it next Spring.

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## New Chair

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our deep appreciation to Mary for her willingness to take on the job. She has our full confidence in her leadership!

Dr. Delany came to UC Davis in 1995 as an assistant professor jointly appointed to the Departments of Avian Sciences and Animal Science. In 1997, the two departments merged. Dr. Delany earned her M.S. and Ph.D. in Animal Genetics from Cornell University, followed by postdoctoral research there. Her research on the molecular and cytogenetic organization and function of the chicken genome has recently focused on telomeres, the specialized structures that protect the ends of chromosomes. Her research group is investigating telomerase, the enzyme responsible for maintaining the length of DNA in telomeres, as well as the cellular TR gene encoding the RNA template used by telomerase. Two

copies of the chicken TR gene were acquired by the herpes virus that causes Marek's Disease in chickens; her group is working on understanding what this gene does for the virus.

As an ardent advocate for conserving avian genetic research resources, Dr. Delany has worked nationally and internationally to prevent the loss of valuable genetic stocks. She is also known internationally as one of 11 scientists who coordinated the analysis of the chicken genome that was published in December 2004 (see Winter 2005 *Highlights*). Dr. Delany teaches two undergraduate courses: Avian Development and Genetics, and Animal Cytogenetics. This fall, she is leading the first offering of Integrated Animal Biology, a core graduate course for the new Animal Biology Ph.D. program.

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## Oberbauer Award

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molecular markers is refined. One outcome has been the identification of a chromosomal region associated with seizing activity in Belgian Tervurens. Similar studies are being conducted on hypoadrenocorticism (Addison's Disease) in Bearded Collies, Leonbergers and Standard Poodles.

Dr. Oberbauer has been interviewed for articles and has been invited to present numerous talks to local and national dog fancier groups, improving their understanding of genetics as well as stimulating support for genetic research that can improve breed health. She has become an ardent and important conduit for accurate, objective, scientific information delivered to an entirely new group of animal science stakeholders.

## Pick-up "Polo" Match Before Fall Barbecue

**Dan Sehnert**, our facilities manager, came up with a last-minute idea for a pre-barbecue event that may evolve into a tradition. Six staff and faculty who own horses and one with a mule brought their animals to the Horse Arena, where they played an exhibition game of broom polo for an enthusiastic crowd. **Jason Campbell, Tonya Fleming, Alisha Nork, Jan Roser, Dan Sehnert, Matt Webster** and **Nicole Webster** were the riders. Dan commented, "There wasn't anyone among us (rider or mount) who had tried this before, which readily showed!" The match was refereed by Professor **Tom Famula** from atop April, a jenny (female donkey) belonging to the Animal Science Horse Barn. The jenny needed some prodding from an escort who had to keep a close eye on Tom and a hand on his mount. It was the source of no small amount of hilarity among the audience. Professor Ed DePeters announced the event from atop the fence. A good time was had by all (we think)!



*Tom Famula, referee; Ed DePeters, announcer; Alisha Nork and Nicole Webster (with broom), intrepid players. K.L. Radke photo.*

## Gift from Pran Vohra Estate

The Department of Animal Science received a gift of \$64,000 from the estate of Avian Sciences Emeritus Professor **Pran Vohra**, an avian nutritionist who began as an Avian Sciences faculty member in 1962. Emeritus Professor **Howard Kratzer**, Pran's long-time colleague and friend, suggested that the gift be used to enhance the principal for the endowment that supports the Kratzer, Ogasawara and Vohra Scholarship. This scholarship is awarded to students majoring in Avian Sciences, alternating between undergraduate and graduate students. Pran previously contributed to the scholarship fund and this use of the estate gift would have pleased him, as students were very important to him.

The Animal Science Department appreciates this gift and the confidence and investment in the academic development of our students. The department has received several estate gifts. Estate and planned gifts provide substantial support for student scholarships and ongoing departmental programs, as well as boosts for new initiatives and future programs.



*The annual Animal Science Department Fall Barbecue to welcome new and returning students was held on the lawn south of Meyer Hall on the evening of October 4, 2005. K.L. Radke photo.*

The barbecue was attended by about 250 people, including faculty, staff, undergraduates and graduate students. The main meal included bratwurst prepared by **Matthew Livingston**. Thanks go to **Alisha Nork**, graduate program assistant, for her skillful organization of the event.

### Check out new items of information on the Animal Science Web site:

Avian Influenza Information:

<http://animalscience.ucdavis.edu/Avian/>

Avian Genetic Stocks Resources:

<http://animalscience.ucdavis.edu/AvianResources/>

Current Events:

<http://animalscience.ucdavis.edu/events/Current/>

## Notable Notes

**Alisha Nork**, graduate program assistant for the Animal Biology and Avian Sciences Graduate Groups, received the 2005 Graduate Student Association (GSA) Award for Excellence in Service to Graduate Students. Alisha oversees all 115 graduate students in the department, as well as graduate education issues for the two graduate groups. This student-initiated award shows how much she is appreciated by our students!

**Chris Pearl**, who is completing his Ph.D. research in Professor **Jan Roser's** laboratory, was selected as recipient of the 2005 Hertzendorf Award, given by the graduate group in Molecular, Cellular and Integrative Physiology to the graduate student who best presents the virtues of scholarship and good citizenship.

**Rebecca Fox**, Animal Behavior graduate student in Professor **Jim Millam's** lab, was selected to participate in the 2005-2006 *Professors for the Future* program. This program integrates research, teaching and career development for biomedical scientists. Her selection was based on academic performance, leadership potential, desire to serve the needs of fellow students and interest in participating in the process of graduate and postdoctoral educa-

tion. *Professors for the Future* is directed by Professor Emeritus **Jerry Hedrick** and is housed in the Animal Science Department.

Dr. **Cindy Batchelder** received the Kinsella Prize for the best Ph.D. thesis in the College of Agricultural and Environmental Sciences. This prize was established to memorialize the late **John Kinsella**, former dean of the college. Cindy also received the Loren Carlson Award, recognizing the best Ph.D. thesis in Molecular, Cellular and Integrative Physiology. Cindy's Ph.D. research, in the laboratory of Professor **Gary Anderson**, produced the first cow in the western U.S. to be cloned from adult somatic cells. Two of the clones gave birth this summer to healthy offspring, a bullcalf and a heifer.

Two Animal Science graduate students took top honors in the poster competition at the 2005 California Animal Nutrition Conference in Fresno. **Jesse Wartjes**, an Animal Biology M.S. student who works with CE Specialist **Peter Robinson**, received the first-place award. **Ramesh Selvaraj**, an Immunology Ph.D. student who works with Professor **Kirk Klasing**, took third place in the competition.

## HIGHLIGHTS

Department of Animal Science  
College of Agricultural and Environmental  
Sciences  
University of California  
One Shields Avenue  
Davis, CA 95616-8521  
(ID# 0340)

### Address Correction Requested

*HIGHLIGHTS* is published twice a year.  
email: [highlights@ucdavis.edu](mailto:highlights@ucdavis.edu)

**Editors:** E. O'Farrell, K.L. Radke

**Contributing Writers:** G.B. Anderson, D.L. Bath, M.E. Delany, M. Livingston, A. M. Oberbauer, E. O'Farrell, K.L. Radke, N. Webster

Send comments or questions to

Mary E. Delany, Chair  
Phone: (530) 752-1250  
Fax: (530) 752-0175  
e-mail: [medelany@ucdavis.edu](mailto:medelany@ucdavis.edu)

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