

Department of Animal Science, UC Davis

HIGHLIGHTS

A PUBLICATION FOR OUR ALUMNI AND FRIENDS
Fall 1995

Message from the Chair



When we first met to decide what we would include in this second issue of HIGHLIGHTS, we were surprised at the number of newsworthy items proposed. New faculty, animal facility renovations, STUDENTS FIRST donations, student activities, and awards to faculty are just some of the items included in this issue.

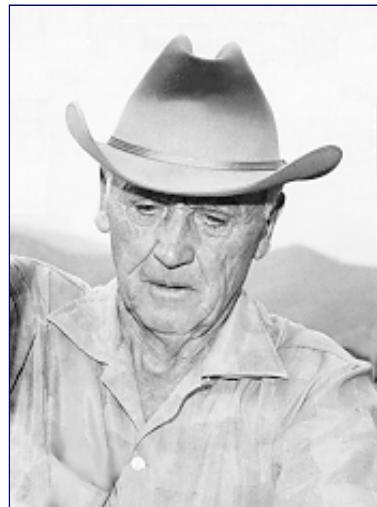
With over 90 full-time employees in the department, we have a lot of things going on. But numbers are not enough. Teamwork is needed to carry out successful teaching research and outreach programs. Teamwork is needed to run an effective Advising Center or plan a successful Horse Day event. If there is anything I would like to accomplish during my tenure as chair, it is to do what I can to promote a sense of teamwork among the faculty, staff and student leaders associated with the department. Every person should sense that he or she has a valuable role to play in the department and is appreciated as an employee and a person. I hope you, our alumni and friends, can feel that connection, too.

Ed Price

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Reuben Albaugh: 1901 - 1995



Reuben Albaugh, Emeritus Livestock Specialist with the University of California Cooperative Extension, passed away October 8, 1995, in Davis.

Born in Pittville, Shasta County, Reub spent his formative years on the HH Albaugh livestock ranch and being educated at Pittville and McArthur schools. After graduating from Oregon State University with a degree in Animal Science and a minor in journalism, Reub began his **62 year** career with the University of California Cooperative Extension.

As an assistant Farm Advisor in Monterey County starting in 1927, he skillfully made agriculture research understandable for the cattlemen and farmers of the area. Among his numerous county projects from 1927 to 1949, Reub organized the very successful Monterey County Cow Testing Association, formed the renowned Monterey County Cattlemen

Association and promoted numerous grain-crop field experiments. Through an extensive vaccination program, Reub pioneered the use of Strain 19 Vaccine for the control of Brucellosis.

In 1949, Reub became the Extension Animal Scientist at UC Davis responsible for beef cattle, sheep, swine and horse programs for the 26 Northern California counties. During his years at UCD, Reub's research, writing and teaching featured crossbreeding programs for increased rate and economy of gain in beef cattle, studies on the economy of gain in carcass composition, experiments to enhance breeding efficiency in beef and dairy cattle and the extensive development of education and field demonstration meetings. Reub officially retired in 1967 but was re-hired on a part-time basis until he retired again in 1989.

In his professional lifetime, Reub authored more than 500 research papers and popular articles and five books devoted to education and experimentation in agriculture. Among his favorite writings were *Cattle, Country and Champions*, in which he told tales of his western life and the people he met along the way.

His career with the University was filled with numerous honors, awards and recognitions. Among many were the "Cattlemen's Cattle-man" by the Swift Co.; the Animal Science Extension Pfitzer Award; the Golden Fleece Award from the California Wool Growers Association; the Pioneer Award from the Beef Improvement Federation; and his memoirs, *The College Cowboy*, recorded by the UCD Oral History Center.

Reuben loved his large extended family including his sister Velma, brothers Ed and Albert, his children, Barbara Kraus of Pacific Grove and Glen Albaugh of Stockton, eight grandchildren and six great-grandchildren. Vira, his wife and dancing partner for 67 years, preceded him in death in 1994.

Several months ago, the Department of animal Science established "The Reuben Albaugh Scholarship for Farm Advisors and Specialists" as a lasting tribute to a generation of educators and for the continuing education of farm advisors and specialists. Interest from this endowment fund will be used to support farm advisors who wish to spend three to six months at UC Davis to study and work with faculty and Extension specialists on projects of mutual interest. The scholarship may also be used to support students who wish to pursue a career in Cooperative Extension. If you would like to contribute to this fund, please make checks payable to the "U. C. Davis Foundation" and send to:

**The Reuben Albaugh Scholarship Fund
Department of Animal Science
University of California, Davis
Davis, CA 95616**

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Conference Room Named for Bill Weir



GREG SKEWIS, BILL WEIR, AND JIM MEYER

The William C. Weir Conference Room was dedicated in Meyer Hall on April 27, 1995 in honor of the many contributions made by Professor Weir to his students, the department, college and campus.

Dr. Weir grew up on a sheep ranch in Lake County, Oregon. He joined the faculty of the Department of Animal Husbandry at UC Davis in 1948 after obtaining a B.S. degree in Animal Husbandry and Range Science at Oregon State University and M.S. and Ph.D. degrees in Nutrition at the University of Wisconsin.

Bill was regarded as an outstanding teacher and advisor, and his research accomplishments in the area of sheep nutrition are well-known in the sheep industry and scientific community. He played a key role in the acquisition of the UC Hopland Field Station in 1951, where much of his research on sheep was subsequently conducted.

Professor Weir served as the Dean of Students at UCD from 1958 to 1965, a period of rapid growth of the student body. From 1970 to 1972, he was Chief-of-Party for the University of California-University of Chile Cooperative Program in Santiago. In 1973, he accepted the Chairmanship of the Department of Nutrition, a position he held until 1981. He then returned to his long-term interest in international activities by serving as Associate Director of the USAID-funded Small Ruminant Collaborative Research Support Program from 1981 to 1987. From 1985 until his retirement in 1990, he was Associate Dean for International Programs for the Davis campus.

Professor Weir's many honors include the California Wool Growers Association Golden Fleece Award (1973) and Recognition of Distinguished Service from the College of Agricultural and Environmental Sciences at UCD (1980).

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Department Establishes Internet Home Page

The Department has made inroads into the Information Superhighway by creating its own home page on the internet. The Animal Science home page provides information of interest to prospective and continuing students; other information will be added over time in a continuing process.

Featured on the home page is a description of the department and its mission including teaching and research faculty and extension specialists. The home page also describes the teaching and research programs available to undergraduate and graduate students including course requirements as well as current class schedules. Early in 1996, information will be added on general department outreach events and extension outreach information and programs, with a calendar of department events and activities.

You can access our home page at <http://animalscience.ucdavis.edu/> or by accessing the University home page at <http://www.ucdavis.edu/> and then selecting "Colleges & Schools", "Academic Departments" and "Department of Animal Science".

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Department Computer Network Established

The Department has recently expanded its computing capabilities by networking departmental computers. All faculty and many staff now have their computers connected to the Internet, giving them access to e-mail, the World Wide Web and other Internet services. Department animal facility managers will be connected to the network by January first and Meyer Hall research laboratories by mid-1996.

E-mail addresses of faculty and staff can be obtained by contacting the department:

Phone: 916/752-1250
Fax: 916/752-0175

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Department Development Board Welcomes New Members, Thanks Retirees

Department of Animal Science welcomes seven new members to its External Development Board: Ken Beer (aquaculture), Robert Bray (horses and "distance" learning), Laura Garvin (laboratory animals), Kip Herzog (dairy), Tim Indart (sheep), David Knudsen (laboratory animals), and Tom Sawyer (dairy). Membership is for three years.

Members who retired from the Board on July 1, 1995 include Jane Anderson, Tom Bachman, Willard Clark, Judy Ehlers, Paul Rollin, Peter Struffenegger and Gordon Van Vleck. The Department would like to thank these individuals for their generous service over the last three years.

The Development Board meets twice yearly, in May and November, to advise the Department on matters relating to its teaching, research and outreach goals.

The November 9th meeting of the Board was highlighted by the opportunity to meet Dr. W Reg Gomes, new Vice-President of the UC Division of Agriculture and Natural Resources.

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News Update

Ed Price Reappointed as Chair

After serving as Department Chair for 2 1/2 years, Professor Ed Price has been Reappointed for an additional three-year term ending June 30, 1998. Ed took over as Chair when Professor Eric Bradford retired in January 1993. Ed will continue to teach in his specialty area of animal behavior and pursue his research dealing with the reproductive behavior of large domestic ruminants (cattle, sheep and goats).

Professor Jim Murray will continue to serve as Department Vice-Chair for the next three years as well.

Doroshov Heads Aquaculture and Fisheries Program

In September 1, 1995, Animal Science Professor Serge I. Doroshov assumed the directorship of the campus-based Aquaculture and Fisheries Program (AFP). AFP coordinates the research activities of some 40 faculty in over a dozen departments and five schools at UC Davis. Professor Doroshov brings in-depth knowledge of the technical, academic and political issues affecting the aquaculture and fisheries industries to the AFP.

Professor Doroshov has served on the faculty of the Department of Animal Science and the AFP since 1977. His research expertise focuses on the reproductive and developmental biology of fish. Professor Doroshov is recognized as one of the world's leading authorities on the reproduction of sturgeon, and his efforts in the development of sturgeon hatchery technology and culture have resulted in the establishment of a cultured sturgeon industry in California. He presently supervises the sturgeon broodstock development programs in California, Idaho and Montana. In addition, he is investigating the reproduction of the endangered Delta smelt.

Swine Facility Gets Face-Lift

The department's swine facility is in the process of undergoing a major renovation and face-lift. The barn, built in 1913, is one of the oldest buildings on campus.

An October 1993 review of the animal facilities and programs by the American Association for the Accreditation of Laboratory Animal Care indicated that the facility did not meet the subjective criteria for a modern, commercial swine facility. Consequently, the Department, the College and the campus have committed over \$150,000 to renovate the facility by replacing the roof and pouring a new concrete floor for the farrowing barn and building 28 new outdoor holding pens covered by permanent shade structures.

The Animal Science swine facility is the only such facility in the UC system; indeed, the only academic research facility for swine in California.

Department-Raised Bull Auctioned at California Cattlemen's Association Convention

For the first time, this year's California Cattlemen's Association (CCA) Convention was marked by the University's donation of a department-raised bull (purebred, breeding-age Angus) to CCA for its annual benefit auction. Proceeds from the auction (\$1,700) went to the CCA Livestock Memorial Research Fund to support research of benefit to the cattle industry.

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Upcoming Events

January 20, 1996	Dairy Goat Day	UC Davis Campus
January 20, 1996	California Cattlemen's Assoc. "Cow-Calf Quality Assurance Program on Advanced Genetics and Value-Based Marketing"	UC Davis Campus
March 2, 1996	Ag Sci Field Day	UC Davis Campus
March 27, 1996	Dairy Cattle Day	UC Davis Campus
April 20, 1996	Picnic Day	UC Davis Campus

DATES UNDETERMINED:

April	Beef and Range Field Day UC Sierra Foothill Research & Extension Center, Browns Valley
April	Beef Feeders Day Desert Research & Extension Center, El Centro

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Young Cattlemen's Association Chapter Initiated at UCD

A UC Davis Chapter of the California Young Cattlemen's Association (YCA) was formed in January 1995. According to President Rebecca Hall, goals of the YCA are to educate members and the public about the beef industry and its current concerns as well as to provide assistance to its parent organization, the California Cattlemen's Association.

Since its inception, activities of the chapter have included the presentation of educational displays at the UC Beef and Range Field Day, UCD Picnic Day and Cattlemen's Day at the California State Fair. In addition, members have helped present local California Cattlemen's Quality Assurance Programs and have helped organize a statewide public speaking contest on public perceptions of the beef industry.

Members are also organizing a "myth-buster" training session for young cattlemen throughout the state to educate themselves about controversial issues related to the beef cattle industry. Livestock Extension Specialist, Dr. Jim Oltjen, is serving as the group's advisor.

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Donations and Pledges

The Department of Animal Science would like to thank all those who have made donations and pledges to our STUDENTS FIRST Mini-Campaign and related scholarship funds during the last two years (see list below). We also appreciate the time many of you have given in support of student-related activities.

- [STUDENTS FIRST](#)
 - [FRANK RUE SCHOLARSHIP](#)
 - [REUBEN ALBAUGH SCHOLARSHIP](#)
-

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Department Fund Raising is a Success

Since the start of the department's STUDENTS FIRST campaign two years ago, almost 400 individuals have made gifts and pledges totaling over \$150,000. A \$40,000 will was added to the campaign coffers, and another \$338,254, the charitable remainder of an estate, was pledged to the department for undergraduate support, bringing the total to \$530,806.

A unique gift and one that brought us a great deal of good publicity was the bull Bill Borror auctioned at his Tehama bull sale for the benefit of Animal Science's STUDENTS FIRST programs.

Gifts and pledges received for student support are as follows:

Pledges and gifts to Animal Science STUDENTS FIRST programs:

Harold and Elizabeth Kendall Animal Science Undergraduate Scholarship	\$50,000
Clement and Jeanne Pelissier Animal Science Undergraduate Scholarship	25,000
Reuben Albaugh Animal Science Extension Scholarship	18,868
Robert Laben Animal Science Undergraduate Scholarship	9,023
Animal Science Graduate Student Fund	6,560
Frank Rue Memorial Scholarship Fund	3,565
Annual Fund Telethon	5,673
Unrestricted gifts and pledges to Animal Science STUDENTS FIRST	33,805
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Subtotal	\$152,494

Wills and Trusts:

Edward H. Jessup Estate	40,058
Samuel W Smith and Harold G. Smith Charitable Remainder Trust	338,254
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Grand Total	\$530,806

The Department would like to thank Ria de Grassi, Chair of the Animal Science Development Board Fundraising Committee, Chancellor Emeritus Jim Meyer, Don McNary, and Eileen O'Farrell for their support in this fundraising effort. Ann Eckmann has received and acknowledged gifts.

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Pelissier Undergraduate Scholarship Established

Clem Pelissier, Emeritus Dairy Extension Specialist, and his wife, Jeanne, recently donated \$25,000 to the department's STUDENTS FIRST campaign to establish the "Clement and Jeanne Pelissier Scholarship" for undergraduate students majoring in animal science. Students nominated for this award must have an interest in dairy cattle or livestock, with a preference for dairy. In addition to academic excellence, recipients must demonstrate leadership skills as indicated by extracurricular activities, which may include athletics. The department greatly appreciates the generosity of the Pelissiers.

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Department Welcomes New Appointees

Appointment of Professor Joy Mench Launches Animal Welfare Program



It is with great pleasure that the Department announces the appointment of Dr. Joy Mench as Professor of Animal Science in the field of animal welfare, beginning November 1, 1995. Her appointment in Animal Science (80%) is shared with the Department of Avian Sciences (20%).

Dr. Mench's reputation as a teacher is outstanding. In 1989-90 she was awarded a Lilly Foundation Teaching Fellowship to develop an advanced studies course on the ethical, scientific and technical perspectives of animal welfare. At UC Davis, Dr. Mench plans to teach a similar course as well as serve as a course team leader for the Ethics of Animal Use course.

Dr. Mench joined the faculty of the Department of Poultry Science of the University of Maryland in 1985, where she remained until this fall. Dr. Mench is an internationally recognized authority on the physiological, behavioral and ethical aspects of animal welfare. Her research has concentrated on social, nutritional and developmental factors influencing the well-being of domestic and captive wild animals.

Dr. Mench is currently Chair of the Animal Care Committee for the Animal Behavior Society, the largest professional scientific organization of animal behaviorists in North America, and she is a former Chair of the Animal Care Committee of the Poultry Science Association. She is a member of the Board of Trustees of the Scientist's Center for Animal Welfare (SCAW), the largest scientific organization addressing animal welfare issues in North America, and has served as Chair of its Institutional Animal Care and Use Committee (IACUC) Evaluation Committee since 1988.

Dr. Mench participated in writing the "Guide for the Care and Use of Agricultural Animals in Agricultural Research and Teaching," the primary source of guidelines for using agricultural animals in teaching and research. She is currently chairing a committee to evaluate the use of the "Guide" in US institutions and write an addendum to it.

Mary Delany Appointed as Assistant Professor

In July 1, 1995, Dr. Mary E. Delany joined the faculty as Assistant Professor in Developmental Genetics. Dr. Delany's appointment at UC Davis is shared between the Department of Animal Science (40%) and the Department of Avian Sciences (60%). After spending two years at Pennsylvania State University as a cytogenetics research technician, she began graduate studies at Cornell University where she obtained an M.S. and Ph.D. in Genetics in 1984 and 1987, respectively. After completing her doctorate, Dr. Delany

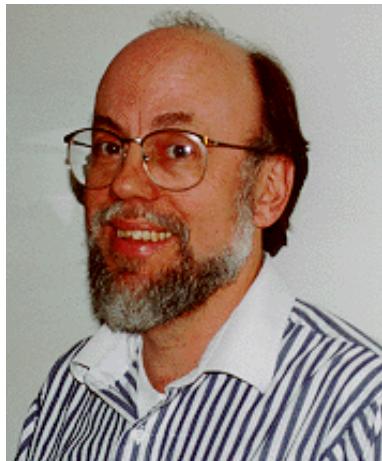


remained at Cornell as a Research Associate in the Department of Poultry and Avian Sciences (1988-1990) and the Department of Avian and Aquatic Animal Medicine (1990-1995).

Dr. Delany's research over the last decade has concentrated on the genetic regulation of normal and abnormal development in the chick embryo. More specifically, she has concentrated on the biological effects of gene copy number variation (gene additions and deletions) at the developmental, cellular and molecular levels. In her new position, Dr. Delany will concentrate on the contribution of genetic variation to early embryonic arrest, teratogenesis and mortality and patterns of the regulation, recruitment and cellular expression of genes during the early development and morphogenesis of the chick.

Mary Delany and her husband Bernie May, also featured in this newsletter, reside in Davis with their three children, Donald, Abigail and Hannah,

Bernie May Joins Department as Associate Research Biologist



The Department of Animal Science welcomes Dr. Bernie P May as an Associate Research Biologist. Dr. May received a B.S. in Molecular Biology and an M.S. in Fisheries at the University of Washington in 1973 and 1975, respectively. In 1980, Dr. May obtained a Ph.D. at the Pennsylvania State University. His research at Penn State focused on the salmonid genome.

After serving as a Research Associate at Penn State in 1980-81, Dr. May moved to Cornell University where he assumed duties as Research Associate (SRA) and Director of the Cornell Laboratory for Ecological and Evolutionary Genetics (CLEEG) in the Section of Ecology and Systematics (1981-88). From 1988 to 1992, Dr. May was a Senior Research Associate (SRA II) and Director of CLEEG in the Department of

Natural Resources. Since 1992, he has been a Senior Research Associate and Director of the Genome Variation Analysis Facility in the Department of Natural Resources at Cornell. He has hosted over 30 graduate students in his lab since 1982 and became a member of the Graduate Faculty at Cornell in 1992.

Dr. May's research interests are broad-based including studies of genome structure, population analysis, mixed stock analysis, genomic manipulation, effects of non-indigenous species/populations, and isolate identification. While his published research has been largely on salmonid fishes and commercial mushrooms, he has worked on over 100 other taxa (fish, fungi, birds, mammals, plants, invertebrates).

One of his primary roles has been to provide a genetics perspective to the collaborative projects with which he has been associated. During the past two years, he has adopted new techniques in molecular biology to study questions dealing with social behavior, cell line authentication, population structuring, subspecies identification, systematics and maintenance of genetic variation in small isolated populations. These techniques can be used to develop criteria for identifying natural populations for preservation, measuring the loss of genetic variability, determining the extent to which native populations can be preserved after extensive stocking with non-indigenous populations, and defining how different populations must be for them to be maintained and managed separately.

Dr. May has published over 70 refereed papers in the last 15 years. His research has been supported from grants obtained from such agencies as the National Science Foundation, the US Fish & Wildlife Service and the National Biological Survey.

Dr. May will be working with Professor Graham Gall in research of mutual interest, namely the genetic improvement of fish populations (e.g., salmon, tilapia). He will share a laboratory with Professor Gall. Dr. May is the spouse of Assistant Professor Mary Delany, also featured in this newsletter.

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Freshman Enrollment in Animal Science Soars

One-hundred fourteen freshmen enrolled in our Animal Science major this fall. This represents a 39% increase in freshman enrollment over last year. Freshman enrollment in our Animal Science and Management major increased from 12 students in 1994 to 25 students this fall, a 108% increase.

This increase was due at least in part to the efforts of Carrie Russikoff (Advising Associate), Professor Graham Gall (Master Advisor), Professor Jim Fadel (Master Advisor), Dana Van Liew (Division Student Recruitment Officer) and a number of faculty who participated in the "admitted student" program last spring.

Uncommitted students who had expressed an interest in coming to UCD and majoring in one of our two Animal Science majors were invited to visit the campus and meet with our faculty. One hundred thirty-five people, including prospective students and their parents, participated in this activity

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Undergraduates Receive Animal Science Degrees

During the 1994-95 academic year, 56 of our students completed requirements for the B.S. degree in Animal Science. Three students received a B.S. in Agricultural Science and Management (Animal Science Option) and one student graduated with a B.S. in Animal Science and Management (which replaces the Agricultural Science and Management degree).

A reception was held for our graduates on Commencement Day/Father's Day June 18, 1995, in the breezeway of Meyer Hall. Over 100 students, family members, friends and faculty attended the catered event.

Congratulations again, graduates!

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1995 Community College Judging Field Day

The Animal Science Department and undergraduate Animal Science and Management students hosted the twelfth annual Community College Judging Field Day at the Cole Facility on October 13, 1995.

One hundred agriculture students from California, Oregon, and Nevada participated in this year's event, with Modesto Junior College winning the High Team Award. The addition of a junior division at this year's field day permitted participation by the State Champion 4-H and FFA teams from all three states. Community college and high school instructors were invited to attend this year's contest and an informative afternoon program. The field day concluded with an awards ceremony and barbecue at the Animal Science Teaching Facility.

Plans are already underway for the Agricultural Sciences Field Day scheduled for March 2, 1996. The Department and the College of Agricultural and Environmental Sciences will host over 2,000 Future Farmers and 4-H'ers, who will participate in over 20 competitions and performances.

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Dairy Cattle Show Team Wins Excellence in Education Awards

During the summer of 1995, students in the Department of Animal Science were again busy showing dairy cattle at several fairs in California. This second year of renewed showing yielded more success for both the students and UC Davis alike. Among the honors achieved were several place winnings at the Sonoma County and California State Fairs. Their success at the Yolo County Fair was noteworthy, as UC Davis received ribbons for Supreme and Reserve Supreme champion dairy females,

This year, the students also captured the Excellence in Education award at the Yolo County and California State Fairs, a distinction awarded to the exhibitor who presents the best informational display about dairy cattle and dairy products. UC Davis also obtained the Dairy Herd Award at the State Fair.

Mike Karle, Andrea Mongini, Jessica Wendler and Jennifer Wyckoff devoted countless hours in promoting the Department of Animal Science and UC Davis. This experience also helped them develop industry contacts and an understanding of current dairy cattle breeding, merchandising and selection.

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Notable Notes

On October 27th, LESS GUTHRIE, Porterville cattle rancher, was presented the College of Agricultural and Environmental Sciences Award of Distinction. This is the highest recognition presented by the College to individuals whose contributions and achievements have enriched the goals of the College and furthered its mission to better serve the people of California.

A 1966 graduate of UCD, Less has made many contributions to the California livestock industry. He is a past president of the California Cattlemen's Association and is currently vice-chair of the Agricultural Policy Committee of the National Cattlemen's Beef Association. Guthrie was recognized in 1993 as Agriculturalist of the Year by the Tulare County Farm Bureau.

Animal Science Professor GARY B. ANDERSON was recently awarded the USDA Western Regional Award for Excellence in College and University Teaching in the Food and Agricultural Sciences. The award is accompanied by \$2,000 to be applied to the teaching program of his home department.

Professor Anderson's achievements in the classroom are reflected in the near perfect ratings that he consistently receives from his students. In 1984, Professor Anderson received the Magnar Ronning Award for Excellence in Teaching, and in 1991, he received the UC Davis Academic Senate Distinguished Teaching Award.

DANA VAN LIEW, Lecturer in Animal Science (Animal Judging and Evaluation), coach of the department judging team and manager of the department sheep facility, has been appointed as the Division of Animal Biology Student Recruitment Officer. In this capacity, he will develop and use existing communications networks to encourage prospective students to enroll in animal-related majors in the College.

In California, there are some 350 high school agricultural programs (40,000 to 45,000 students), 20 community colleges with recognized animal science programs and 40,000 to 50,000 4-H members who are interested in animals. Van Liew hopes to increase the enrollment of students interested in animal production, particularly those with leadership experience.

Two visiting scientists have been with us this fall.

ADRIAN EGAN, Deputy Head of the Department of Agriculture and Resource Management, University of Melbourne, Australia, is studying the philosophy and organization of the U.S. Land-Grant Colleges of Agriculture. He is also engaged in research with Professors Lee Baldwin and Bob Sainz on simulation modeling of growth and lactation in ruminants and studies on the expression of the growth hormone gene with Professors Jim Murray and Anita Oberbauer.

MARIE HILLESTAD of AKVAFORSK (Institute of Aquaculture Research at the Agricultural University of Norway) is taking two graduate courses that relate to her interest in the breeding and nutrition of salmonid fishes. Marie's host is Professor Silas Hung.

Animal Science Professor JOAN MACY has resigned her position in the department effective November 1, 1995, to become Head of the Department of Microbiology at LaTrobe University in Melboume, Australia. In her new position, Professor Macy will continue her research on the microbial purification of agricultural and industrial waste water. The department wishes her the best in her new position.

KEN TAYLOR, Manager of the Animal Science Horse Facility, has completed 30 years of service to the department. DANA VAN LIEW receive his 15-year pin in September and SHANNON FOX, Administrative Assistant, completed 10 years of service in October.
