

College of Agriculture announces 2009 honorees

Wheatland and Big Horn Basin natives, a Cody manufacturer and a retired faculty member who taught more than 35 years in the College of Agriculture will be honored during Ag Appreciation Weekend at the University of Wyoming.

The College of Agriculture's outstanding alumni, research partner and legacy winners will be recognized Sept. 25-26.

Keith Geis, a 1975 UW graduate and president of Platte Valley Bank in Wheatland, and Steve Tharp, who graduated from UW in 1976 and established a veterinary practice in Worland, will be honored as outstanding alumni.

Leroy Maki of Laramie, who taught microbiology, is the legacy award winner, and Y-TEX Corp. of Cody, which manufactures identification and insecticide ear tags and other products, is this year's outstanding research partner.

The honorees will be recognized during the Dean's Ag Appreciation Dinner Friday, Sept. 25, and during the UW vs. University of Nevada, Las Vegas football game Saturday. Full-length stories about each honoree are at www.uwyo.edu/UWAG/09Alumni.asp

Alumni Award

Keith Geis was uprooted to Laramie as a high school junior from the dairy he grew up on southwest of Wheatland and then was sidetracked to Alabama and Iowa before returning to his hometown.

Crisscrossing the country, raising a family, and returning to the Wheatland area haven't seemed to alter the ideals Geis was taught when young.

"I'm an advocate of being the very best you should be and giving back to the world around you," said Geis about what he would say to UW freshmen. "Pay your dues forward. Do something for someone else, and don't expect

anything in return. If you do, you will be successful no matter what you do."

A cowboy creed hangs on his office wall. Spurs rest in a cubby hole not far from his desk.

"Anyone who knows Keith knows he loves Wyoming and the University of Wyoming," wrote Billie Addleman of the Hirst Applegate law firm in Cheyenne. "He wears that passion on his sleeve, and I cannot think of a better ambassador of our state and university than Keith Geis."

Dennis Sun, publisher of the Wyoming Livestock Roundup in Casper, has served with Geis on several nonprofit organizations. "The values and passion he has in helping others is unequalled in Wyoming," noted Sun.

Worland veterinarian/author Steve Tharp carries on the legacy of veterinarian/author James Herriot but with a pronounced Wyoming flavor, said those who nominated him.

Tharp might not have a pen name, but he has a collection of writings, a reputation as an outstanding veterinarian, good humor and admirable character – just like the late James Alfred Wight, who practiced veterinary medicine in England and became widely known for his semi-autobiographical short stories under the pen name James Herriot.

"Many times while visiting Steve's clinic, I am reminded of the James Herriot series of books beginning with *The Lord God Made Them All*," stated Worland

resident and former state legislator Jane Wostenberg in her nomination letter. "Steve could easily have been the main character in these stories, and I often think of him as the James Herriot of the Big Horn Basin."

College of Agriculture's Department of Veterinary Sciences Professor Donal O'Toole added, "Steve is some-

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Keith Geis of Wheatland, alumni award winner



Steve Tharp of Worland, alumni award winner

College of Agriculture announces 2009 honorees

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thing of a Wyoming character. He enlivens veterinary meetings with his wisdom, humor and common sense. He is an important part of his community, and he plays this part with good humor, generosity, civility and grace.”

Research Partner of Year

A direct response by taking a swat at biting insects that pummeled Wyoming sheep with bluetongue disease and the sheep ked is one of many reasons Y-TEX Corp. of Cody is the recipient of the Research Partner of the Year award.

The company, established in 1967, manufactures identification ear tags, insecticide ear tags and other animal health products such as dusts and pour-ons that target livestock insects. The company created its first impregnated ear tag for control of the Gulf Coast ear tick on cattle in southern states, and it now manufactures insecticide cattle ear tags for various pests. These tags are marketed in the U.S. and exported from Cody to 12 countries.

“Since then, Y-TEX has become a national leader in developing insecticide ear tags and other specialty insecticide formulations for the livestock industry,” said Jack Lloyd, professor emeritus in the College of Agriculture’s Department of Renewable Resources. “They have been particularly instrumental in developing products to prevent and control insecticide resistance.”

Legacy Award

Leroy Maki was a longtime College of Agriculture faculty member who helped launch the microbiology program, established a scholarship fund for students and was considered an exceptional teacher.

“Dr. Leroy Maki has made a lasting difference in the microbiology program both in terms of teaching and financial support,” said Anne Leonard, college relations officer for the College of Agriculture.



Leroy Maki, Legacy Award winner

Added Department of Veterinary Sciences Professor E. Lee Belden, who had Maki as a teacher and then became a colleague: “Teaching was clearly a very strong point of Dr. Maki’s. He was well prepared, very well organized and as honest a person as you could find. He taught life lessons, and one way he did that was by having a genuine concern for his students.”

Maki taught microbiology from 1955 to 1990.

“I most enjoyed the association with the students,” Maki said. “I enjoyed teaching them, and I was always in the laboratories helping them.”



Mike Fletcher, left, director – parasiticide development, and Joe Kellerby, vice president-specialty products, with the PYTHON insecticide ear tag, represent Y-TEX Corp., which received the Outstanding Research Partner award. The tag, initially marketed for cattle use, now is used on sheep against the biting gnat that causes bluetongue disease and against the sheep ked.

Ag Appreciation Weekend schedule

Sept. 25

* Dean’s Ag Appreciation Dinner honoring College of Agriculture graduates Keith Geis and Steve Tharp, and Legacy Award recipient Leroy Maki, and Y-Tex Corp., the Research Partner of the Year. Those wishing to attend may make reservations by contacting the College of Agriculture’s Dean’s Office at (307) 766-3372.

Sept. 26

* 27th annual Ag Appreciation Day Barbecue, 11-12:30 p.m. at Tailgate Park.

* UW vs. UNLV football game, 1 p.m.

Tickets for the barbecue can be purchased at the event or before Friday, Sept. 18, from the Office of Academic and Student Programs at (307) 766-4034. Food for the barbecue is provided by Wyoming producers with College of Agriculture student organizations preparing and serving the meal. Proceeds provide scholarships for College of Agriculture students and help fund various agriculture college student organizations.

The College of Agriculture has reserved Ag Appreciation Weekend group football tickets for Saturday, Sept. 26. The tickets are in section G – adults cost \$18, and youths ages 3-18 cost \$8.

Go to <https://www.groupticketwindow.com/groupticket/college/cowboys/group>. Under Sign-In ID, enter AGDAY. Under Password, enter POKES.

The deadline to order tickets, which must be purchased online, is Sept. 18. Persons needing assistance with online ordering can call the UW athletic ticket office, toll-free, at (800) 922-9461.

Mediation efforts earn Alan Schroeder Friend of Agriculture Award

By Steven L. Miller

Senior Editor, Office of Ag Communications and Technology

Department of Agricultural and Applied Economics Associate Professor Alan Schroeder received the Friend of Agriculture Award from the Wyoming Department of Agriculture (WDA) for his efforts in the department's mediation program.

The award was presented to Schroeder during the Aug. 14 evening performance of the Professional Rodeo Cowboys Association (PRCA) rodeo in Douglas during the Wyoming State Fair and Rodeo.

The award is given to individuals who perform at an effective and admirable level of scientific expertise and have a passion for agricultural values, particularly in the area of natural resources and policies, according to the WDA.

The Wyoming Agriculture and Natural Resource Mediation Program helps Wyoming citizens resolve disputes in a way that is voluntary, confidential, low-cost and time-saving, according to the WDA. Information about the program is at <http://wyagric.state.wy.us/divisions/natres/mediation.htm>.

"In his work as a mediator for the mediation program, Alan is highly sought-after, and he willingly takes on tough mediation situations and works very hard to help the parties come to an agreement," said Lucy Pauley, mediation program coordinator.

"This, along with his work as a mediation instructor and development of mediation handouts, makes him a tremendous asset to the Wyoming agriculture community and a very deserving recipient of the Friend of Agriculture Award."



Alan Schroeder receives the Friend of Agriculture award during the Wyoming State Fair and Rodeo from Lucy Pauley, left, mediation coordinator for the Wyoming Department of Agriculture, and Leanne Stevenson, manager of the Natural Resources and Policy Division of the department. (Wyoming Department of Agriculture photo)

Renewable resources has new department head

By Steven L. Miller

Senior Editor, Office of Ag Communications and Technology

The new head of the Department of Renewable Resources has returned to his roots.

John Tanaka received his bachelor's and master's degrees in rangeland resources at Oregon State University and a Ph.D. in range science at Utah State University.

He then spent 24 years in an ag econ department. He's now back in the plant and soils business.

"This was an opportunity for me to move back to the real range," Tanaka says. "I've had more training in ecology than economics."

Tanaka began July 31, coming to UW from Oregon State University, where he was an associate professor of Agricultural and Resource Economics. "When in ag econ, I was doing a lot of range research on interdisciplinary teams," he says. "I've stayed involved in the Society for



John Tanaka

Range Management (SRM), serving as president, and last year as the interim executive vice president."

He came to know several of the renewable resources department's faculty members from his work with SRM.

Tanaka says the range profession is at a crossroads, one of the reasons he applied for the department head position. "This is a good opportunity to be part of the change," he says. "For the last decade, the range profession has been doing a lot of soul searching."

The profession used to only deal with grazing issues on rangelands. Society has brought changes to how rangelands are used: energy development,

resource management, wildlife, and soil and water are now issues.

All fit under the Department of Renewable Resources. "This is an interdisciplinary department with the opportunity to address these issues," says Tanaka.

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Renewable resources has new department head *(continued from page 3)*

Being an administrator was also a draw. “I had different administrative positions over the years,” he says. “I enjoy this kind of work. It was time to make a change in my career. I enjoy dealing with people, and I think I can do the numbers. We’ll find out.”

Tanaka grew up in Ontario, Oregon, on the eastern border with Idaho. He was raised in town but worked on a farm owned by an uncle, who had a son of similar age. “I determined there wasn’t a future for me in the profession,” he says, and smiles. “I discovered range in my freshman year in college and stayed with it.”

His wife, Ann (Fuller), was raised on a ranch near Sheridan, and her parents still work the ranch. They have three daughters, ages 17, 19, and 21. Her uncle, Dave Fuller, was an outstanding alumni award recipient from the college in 1992.

Calendar

Sept. 3: Extended Tenure and Promotion Web conference training

Sept. 7: Labor Day holiday, offices closed

Sept. 9-11: UW Cooperative Extension Service (CES) new employee conference, Laramie

Sept. 11: Deadline for proposals to Agricultural Experiment Station competitive grant

Sept. 13-15: Epsilon Sigma Phi annual meeting, Fargo, N.D.

Sept. 15-19: National Extension Association of Family and Consumer Sciences annual meeting, Birmingham, Ala.

Sept. 16-20: 4-H Shooting Sports award trip, Raton, N.M.

Sept. 20-24: National Association of County Agricultural Agents annual meeting, Portland, Ore.

Sept. 22-25: Extension Secretary Conference – A Professional Event (ESCAPE), Riverton

Sept. 24-25: Consumer Issues Conference: Food Safety, Security and Sources, Laramie

Sept. 25-26: Ag Appreciation Weekend, Laramie

For a statewide calendar, please access the ag college Web site at www.uwyo.edu/UWAG/

Researchers identify gene mutation responsible for fatal disease in Red Angus

By Robert Waggener

Editor, Office of Ag Communications and Technology

Researchers in the Department of Veterinary Sciences, in collaboration with others, have identified a gene mutation responsible for a fatal bone disease in Red Angus cattle. The team also developed a commercially available diagnostic test for identifying carriers of the defect.

The mutation causes osteopetrosis (OS), which is commonly referred to as marble bone disease because the bones of affected calves shatter easily, like marble.

Calves are typically born 10 to 30 days premature and dead, and the few calves born alive generally die within 24 hours.

One of the researchers, Shannon Swist, an assistant professor in the Department of Veterinary Sciences and a pathologist/veterinarian at the Wyoming

State Veterinary Laboratory (WSVL), said OS occurs in multiple species of animals, including humans, dogs, cats, horses, cattle, sheep, deer, rabbits, mice and rats.

OS may result from acquired causes, such as infection with bovine viral diarrhea virus and canine distemper virus, Swist said, or it may be caused by an inherited defect, as is the case with OS in Red Angus.

Also involved in the research from the Department of Veterinary Sciences were Professor Donal O’Toole and the WSVL’s chief virology technician, Jackie Cavender.

A full story, including those who collaborated with the Department of Veterinary Sciences, will appear in the fall edition of Ag News magazine, scheduled for release within several weeks. Hardcopies of the magazine are available from the College of Agriculture dean’s office, and it is also online at www.uwyo.edu/uwexpstn/AGNEWS/AGNEWS_main.htm.



Assistant Professor Shannon Swist

College of Agriculture students present research at McNair symposium

Three College of Agriculture students presented research at the University of Wyoming McNair Scholars Research Symposium July 31.

Kaitlin McDaniel, Audrey Plenty Hoops and Raymond Soto were among 14 UW students presenting.

McDaniel is a senior from Powell double majoring in microbiology and molecular biology. The title of her research project was “Monoclonal Antibody Production Against Synthetic Peptide Representing PrPc.”



Kaitlin McDaniel



Audrey Plenty Hoops

Plenty Hoops is a senior from Crow Agency, Mont., double majoring in agroecology and environment and natural resources. “Testing E. coli in Natural Waterways on the Crow Reservation” was the title of her project.

Soto is a junior from Powell majoring in microbiology. His project was “Phenotypic and Genotypic Characterization of Antibiotic Resistance Integrons in Salmonella enteric



Raymond Soto

serovar Newport.”

The McNair Scholars Program is a graduate school preparation program for undergraduates interested in pursuing a doctoral degree. Services include a paid research internship, mentoring from UW faculty members, Graduate Record Examination preparation classes, academic support and tutoring and assistance with the graduate school application process.

Participation in McNair prepares promising undergraduate students from groups traditionally underrepresented in graduate education to enter and complete a doctoral degree program.

Funded by the U.S. Department of Education, the program is part of the Federal TRIO Programs, which helps students overcome financial, cultural, social or academic barriers to engage in higher education.

For more information on the program at UW, call Project Director Zackie Salmon at (307) 766-6189. McNair is a unit within UW’s Division of Student Affairs.

Proposals Submitted

Beck, Jeffrey: \$50,000 to Bureau of Land Management for “Identifying and Mapping Winter Habitats for Greater Sage-Grouse within the Atlantic Rim Project Area: Proposal to Implement a Two-Phased Study.”

Jarvis, Donald, and Angelika Fath-Goodin: \$47,190 to National Institutes of Health (NIH) for “Enhancing Glycoprotein Expression in the Baculovirus Expression System.”

Kelleners, Thijs: \$426,928 to National Science Foundation for “The Faculty Early Career Development (CAREER) Program: Mass and Energy Fluxes in Soils Subject to Freeze/Thaw and Snow Accumulation.”

Miller, Scott, and Sarah Konrad: \$65,283 to U.S. Department of Agriculture (USDA) Agricultural Research Service (ARS) for “Evaluation and Expansion of a Geographic Information System Degree Day Model to Predict Rift Valley Fever Virus Risk in North America.”

Moriel, Philippe, and Bret Hess: \$24,388 to Utah State University for “Level of Dietary Camelina Meal for Cattle Offered Forage.”

Willis, Kentz, Jennifer Jacobsen and Suzanne Pelican: \$19,475 to Wyoming Department of Agriculture for “Wyoming Specialty Crops and Local Foods Project: Supporting Sustainable Lifestyles.”

Changing Faces, Changing Places

(effective date in parentheses)

Welcome:

Geiger, Milton: UW CES, energy extension coordinator (9/14)

Ibarra, Josefina: Sweetwater County UW CES, nutrition and food safety extension educator (9/14)

Tanaka, John: Renewable resources, professor/department head (7/31)

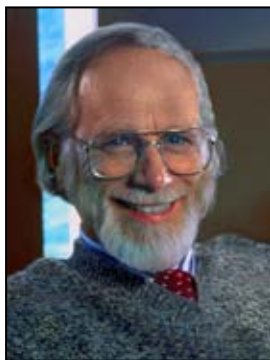
Yue, Wanfu: Animal science, postdoctoral research associate (7/7)

Molecular biology department hosting Nobel Prize winner

The Department of Molecular Biology is hosting Nobel laureate Dr. J. Michael Bishop on Friday, Sept. 25. His visit coincides with Ag Appreciation Weekend.

In a presentation open to the public, Bishop will talk about the molecular biology of cancer and the surprising discovery that normal genes can cause cancer under certain circumstances, which was the subject of his Nobel Prize in 1989.

The discoveries of Bishop and a long-time collaborator



Dr. J. Michael Bishop

who shared in the Nobel Prize, Dr. Harold Varmus, identified key genetic markers that can be used for diagnosis and specific targets that can be used to develop chemotherapeutic agents against various types of cancer. Bishop's talk begins at 2:10 p.m. in Room 103 of the Animal Science/Molecular Biology Building, and a reception will follow. Organizing his visit to UW are Department of Molecular Biology Professor Don Jarvis and Anne Leonard, College of Agriculture college relations officer.

The fall edition of the College of Agriculture magazine *Ag News*, scheduled for release in early September, will have a full story on Bishop and his visit to Laramie. The magazine will be available online at www.uwyo.edu/uwexpstn/AGNEWS/AGNEWS_main.htm.

UW extension horticulturist receives national honor

By Steven L. Miller

Senior Editor, Office of Ag Communications and Technology

University of Wyoming Cooperative Extension Service horticulturist Karen Panter received a national award from the American Society for Horticultural Science (ASHS).

Panter, who is an academic professional in the Department of Plant Sciences, was awarded the Extension Division Commercial Horticulture Distinguished Achievement Award.

She received the honor, in part, for an 18-month project that brought together eight speakers on high tunnels (hoop greenhouses) for a colloquium, which she moderated, at the 2007 ASHS conference



Extension horticulturist Karen Panter conducts a distance compressed video horticulture question-and-answer session.

in Scottsdale, Ariz. She oversaw publication of all eight papers from the proceedings published in the January-March 2009 issue of the ASHS journal *HortTechnology* (<http://horttech.ashspublications.org>).

Panter has held several positions in the ASHS.

"Recognition like this, from a national organization, is very special – and humbling," said Panter. "I've been an active member of the ASHS for almost 30 years, so this is a particularly satisfying award."

She joined UW in 1998 and became the extension horticulturist. Her responsibilities include

teaching and working with commercial horticultural crop producers.

Presentations

Reddy, K.J., M.D. Argyle, **A. Viswatej**, and **D.T. Taylor**. 2009. "A Novel Method to Capture and Store Flue Gas Carbon Dioxide (CO₂): Accelerated Mineral Carbonation," *Climate Change: Global Risks, Challenges and Decisions*, March, 10-12, 2009, Copenhagen, Denmark.

Reddy, K.J. 2009. (Plenary speaker) "Clean Coal Technology Project: Capture and Mineralization of Flue

Gas Carbon Dioxide, A University and Energy Partnership," Council of Energy Research and Education Leaders (CEREL) spring conference, April 20-21, 2009, Washington, D.C.

Reddy, K.J., M.D. Argyle, **A. Viswatej**, P. Fahlsing, and **M. Northam**. 2009. "Capture and Storage of Flue Gas Carbon Dioxide." Eighth Annual Conference on Carbon Capture and Sequestration, May 4-7, 2009, Pittsburgh.

(Continued on page 7)

UW professor emeritus receives national animal scientist association honor

A professor emeritus in the College of Agriculture is among six scientists who received inaugural Distinguished Professional Animal Scientist awards from the American Registry of Professional Animal Scientists (ARPAS).



Conrad "Connie" Kercher

Conrad "Connie" Kercher, who taught in the Department of Animal Science from 1954-1996, received the honor from ARPAS during the group's July joint meeting in Montreal, Canada. ARPAS met with the American Society of Animal Science (ASAS), the American Dairy Science Association and the Canadian Society of Animal Science.

"I was surprised. This is the first time they have given the award," said Kercher.

Other recipients were Bill Baumgardt and T. Wayne Perry, representing Purdue University, Virgil Hayes, University of Kentucky, Dick Frahm, Virginia Tech, and James Oldfield, Oregon State University.

Regionally, Kercher served the Colorado-Nebraska-Wyoming chapter as the Wyoming membership chairman and as vice-chairman and chairman. Nationally, he served on the association's board of directors and was ARPAS vice-chairman and chairman. He is a charter diplomate (board certified) in the American College of Animal Nutrition of ARPAS. He also served the ASAS as Western Section director, and national society secretary-treasurer, president-elect, president, and past president.

Kercher and his wife, Lydia, live in Laramie. They have four daughters, six grandchildren and one great-grandchild.

Presentations

(continued from page 6)

Whitman, A., and K.J. Reddy. 2009. "Coalbed Natural Gas Produced Water Quality Trends in the Powder River Basin, Wyoming." 26th Annual American Society of Mining and Reclamation Meeting, May 30-June 5, 2009, Billings, Mont.

Reddy, K.J., and R.E. Jackson. 2009. "Coalbed Methane Natural Gas Produced Water Research in Wyoming." 26th Annual American Society of Mining and Reclamation Meeting, May 30-June 5, 2009, Billings, Mont.

Department of Animal Science Seminars

Fridays, 12:10-1 p.m., Animal Science/Molecular Biology building, room 103 –

Lunch served for \$4 beginning at 11:50 a.m. by the Animal Science Graduate Student Association

List not yet available



4-H Leadership Team member Kassey Braun, right, of Pinedale asks UW President Tom Buchanan a question during his visit with team members during the Wyoming State Fair and Rodeo. Other members include Trista Ostrum, Powell, by Buchanan, and Sasha Andrie, Gillette.



University of Wyoming President Tom Buchanan presents the grand champion ribbon to Daniek Taylor of Burns in Laramie County. Taylor, member of the Wild West 4-H Club, won the top prize in the champion of champions market lamb challenge Wednesday at the Wyoming State Fair and Rodeo in Douglas. Photographs from the state fair are online at www.uwyo.edu/UWAG/2009_wyoming_state_fair.htm.

Applying for a grant? Consider this

Here are deadlines for various grants and grant programs:

* Friday, Sept. 11: University of Wyoming Agricultural Experiment Station (AES) Competitive Grants Program deadline; information under Links at <http://uwadmnweb.uwyo.edu/uwexpstn/>

* Friday, Sept. 18: Cooperative State Research, Education, and Extension Service (CSREES) Grantsmanship Workshop nominations due to AES

* Friday, Sept. 18: fiscal year 2010 multi-state travel estimates due to AES

* Friday, Oct. 2: UW international travel grant applications due to heads/chairs/directors; information at <http://www.uwyo.edu/intprograms/info.asp?p=446>

* Friday, Oct. 23: Global Perspectives Grant Program request for proposals due; information under Links at <http://uwadmnweb.uwyo.edu/uwexpstn/>

New faculty orientation training is Tuesday, Sept. 22. Training starts at 3:10 p.m. in Classroom Building room 142.

Learn about:

Services and resources to support new faculty members.

Funding programs sponsored by the UW Office of Research and Economic Development

Faculty grant-in-aid

Major equipment fund

Sponsored project proposal procedures and administration

Proposal approval and submission process

The "greensheet"

Office of Sponsored Programs

Institutional Review Board (IRB) for human subjects

Animal care and welfare

Intellectual property procedures and management

Watch the Office of Research and Economic Development Web site (<http://uwacadweb.uwyo.edu/Research/>) for dates of the new brown bag series covering: human subjects review; animal care; responsible conduct of research and conflicts of interests; intellectual property, patents, trademarks, and copyrights; and research expenditures – state and federal regulations.

Department of Molecular Biology Seminars

Fridays, 2:10-3 p.m., Animal Science/Molecular Biology building, room 103

Sept. 4: "Motility in *M. xanthus*," Patricia Hartzell, University of Idaho

Sept. 11: "SV40 T-antigen and Mechanisms of Tumorigenesis," Jim Pipas, University of Pittsburgh

Sept. 18: Cell-specific differentiation, Jeb Gaudet, University of Calgary

Sept. 25: "Viral Oncogenes and Cancer Biology," J. Michael Bishop, University of California, San Francisco

Publications

Jacobsen, Jennifer, and Suzanne Pelican. "Grow Where You Are Planted, an article in Zone 4 magazine focusing on the Wellness IN Wyoming annual meeting in Riverton last April. The article was in the fall 2009 edition. Information about Zone 4 magazine is at www.zone4magazine.com.

Reddy, K.J., M.D. Argyle, A. Viswatej, and D.T. Taylor. 2009. "A Novel Method to Capture and Store Flue Gas Carbon Dioxide (CO₂): Accelerated Mineral Carbonation," IOP (Institute of Physics) Conference Series: Earth Environmental Science. 6: 172021.

Reddy, K.J. (2009). (Invited feature article) "Give Clean Coal a Chance and You Might Fry Bigger Fish, Lesser of Two Evils: Nuclear or Coal?" Freakonomics Blog, The New York Times, July 15, 2009.

Reddy, K.J., and M. Northam. 2009. (Invited feature article) "Geochemistry and Effective Management of Produced Water from Natural Gas Extraction: Recommendations for Industry." Exploration and Production: Oil and Gas Review, Volume 7, Issue 2.

Martinson, C.A., and K.J. Reddy. 2009. "Adsorption of Arsenic (III) and Arsenic (V) by Cupric Oxide Nanoparticles." Journal of Colloid and Interface Science, 336:406-411.

WSVL detects bacterial ‘heart attacks’ in Wyoming cattle

Sudden death of cattle is one of the facts of life – and death – on ranching operations. Often, the cause is straightforward: pneumonia, bloat, hardware, accidental poisoning, trauma, lightning strike or brain infections.

Many veterinarians in the United States, particularly in the feedlot industry, assume cardiac disease caused by the bacterium *Histophilus somni* is a largely Canadian problem, due to hard winters or specific management practices in that country.

Because of this, Department of Veterinary Sciences Professor Donal O’Toole said he was surprised when a Wyoming veterinarian contacted him last year to say he believed this disease was a problem in two cattle feeding operations near Wheatland.

“I asked him to send me a case, he did, and it was the classical ‘Canadian’ disease. We grew the organism from



Professor Donal O’Toole

the heart and agreed to do a survey of the problem in 2008 and 2009,” O’Toole said.

Travis Allen of Cheyenne, who graduated in May with a bachelor’s degree in animal and veterinary sciences, was hired by the Wyoming State Veterinary Laboratory (WSVL) to process 20 hearts from cattle suspected of having died from heart attacks caused by *H. somni* infection.

O’Toole, with the assistance of Allen, now a veterinary medicine student at Washington State University, found *H. somni* in 10 of the hearts.

A full story on the disease and subsequent research at the WSVL will appear in the fall edition of *Ag News*. Hardcopies of *Ag News* are available in the College of Agriculture dean’s office, and the magazine is also available online at www.uwyo.edu/uwexpstn/AGNEWS/AGNEWS_main.htm.

Monies Awarded

Feuz, Bridger: \$15,750 from Washington State University for “2010 Wyoming Master Cattleman Program.”

Foulke, Thomas, David Taylor, Roger Coupal, Owen Phillips, Dale Menkhous and Chris Bastian: \$75,000 from Idaho National Laboratory for “Implicit Price of Carbon in U.S. Financial Incentives for Advancing Clean Energy Technologies.”

Galey, Francis: \$11,990 from USDA ARS for “Research Support – Acquisition of Goods and Services 2009-2010.”

Hixon, Douglas: \$5,004 from The University of Texas Health Science Center at Houston for “Sheep Research.”

Jarvis, Donald: \$280,108 from NIH for “A Novel Transgenic Silkworm System for Recombinant Glycoprotein Production.”

Jarvis, Donald, and Michael Tiemeyer: \$273,064 from NIH for “N-glycosylation Mechanism in Insect Cells.”

Lewis, Randolph: \$43,137 from U.S. Department of Defense, Air Force, for “Designing Spider Silk Genes for Materials Applications.”

Mills, Kenneth: \$65,000 from USDA Animal and Plant Health Inspection Service for “Brucellosis Testing.”

Montgomery, Donald, Gerard Andrews, Jarrett Barber and Dannele Peck: \$225,613 from USDA Cooperative State Research, Education, and Extension Service (CSREES) for “Brucellosis: New Vaccines and Diagnostics,

Vaccination and Environmental Factors in Disease Incidence, and Economics in Livestock and Wildlife.”

Murdoch, William: \$991 from Ladies Auxiliary to the Veterans of Foreign Wars for “Ovarian Cancer Research.”

Norton, Jay: \$20,000 from Norman E. Borlaug International Agricultural Science and Technology Fellows Program for “Effects of Cropping Systems on Soil Properties, Economics and Ecological Sustainability.”

Peterson, Eric: \$1,000 from various sponsors for “Natural Resource Education to Wyoming’s Masses.”

Raisbeck, Merl: \$1,590 from various sponsors for “Miscellaneous Analysis.”

Stahl, Peter, Francis Galey, Roger Coupal and Stephen Williams: \$500,000 from Wyoming Department of Environmental Quality for “Funding of the Wyoming Reclamation and Restoration Center.”

Stobart, Robert: \$19,205 from USDA CSREES for “Objective Measures of Wool Fiber Characteristics 09-11.”

Thompson, Jennifer: \$750 from various sponsors for “*Wyoming Barnyards and Backyards: An Educational Newsletter* for Wyoming’s Small-Acre Enthusiast.”

Williams, David, and Elise Pendall: \$3,500 from USDA ARS for “Implications of Global Change for Semi-arid Rangelands.”

Zlatanova, Jordanka: \$60,445 from University of Pittsburgh for “Development of Novel Single-molecule Approaches for Nanoscale Study of Helicases.”