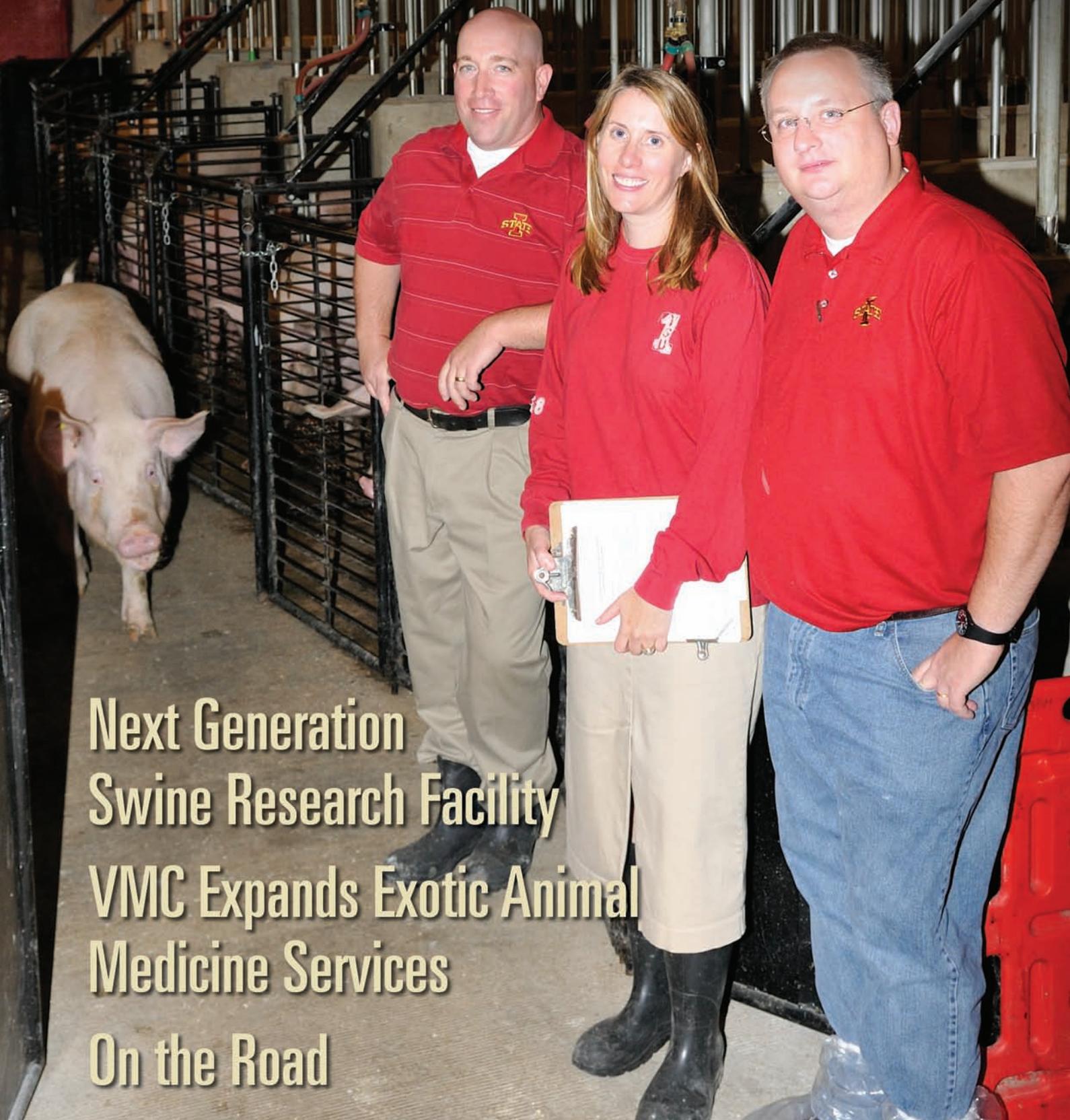


# *gentle* Doctor

Fall 2009 • Volume 23, No. 3



Next Generation  
Swine Research Facility  
VMC Expands Exotic Animal  
Medicine Services  
On the Road

# CONTENTS

## FEATURES

- 4 | Q & A  
with Dr. Rod Bagley
- 6 | Pasture to Plate
- 8 | Collaboration leads  
to new generation of  
swine research facility

## IN EVERY ISSUE

- 3 | Message from the Dean
- 11 | News
- 15 | In Memoriam

A photograph showing three young men, identified as Chase Stahl, Ryan Howard, and Jeremy Johnson, sitting at a long wooden desk in a computer laboratory. They are all wearing button-down shirts and ties. The student in the foreground is wearing a light purple shirt and is typing on a keyboard. The student in the middle is wearing a blue shirt and is looking at a computer monitor. The student in the background is wearing a light green shirt and is also looking at a computer monitor. There are several computer monitors, keyboards, and mice on the desk. The background is a plain, light-colored wall.

Second-year veterinary students (front to back) Chase Stahl, Ryan Howard and Jeremy Johnson in one of several student computer laboratories located throughout the college.

*Photo/ Tracy Ann Raef*



# Looking Back & Moving Forward

## Dear Alumni and Friends,

There is nothing like the energy of full hallways, classrooms and laboratories to bring excitement and enthusiasm to a campus in the fall! Even though the campus isn't quite as invigorating during the summer, it was anything but quiet.

Facilities-wise, we completed two major renovation projects. Classroom 2532, the last holdout for classic 1970s orange chairs, has been modernized with new seating, tables, acoustics and technology. We also renovated the veterinary microbiology laboratory, combining two small spaces and one modern laboratory that can be better utilized throughout the year.

Looking ahead, we plan to start two new projects early in 2010. A modular Biosecurity Level 3 research facility will provide added research space for work that is becoming increasingly critical to animal and human health, and serve as a cross-campus facility for collaborative research.

Our small animal hospital expansion and renovation program is well into the planning stages. We expect to begin construction early in 2010. The State of Iowa has committed \$39.8 million to this project and we have a private fundraising goal of \$5.3 million. This is a huge and complex undertaking that will give us truly outstanding teaching and service facilities when completed in 2012.

Program and student quality are important and we created our Office of Curricular and Student Assessment to help us identify opportunities to improve programs and curriculum. Our graduate, alumni and employer surveys are giving us direction. Ninety percent of employers say they were very satisfied or satisfied with their ISU graduates, and cited strengths in surgical skills and personality traits. Client communication and business/staff management were noted as needing work and we are addressing those through our entrepreneurship program and clinical

skills competency assessment efforts. Another survey has been sent. If you received one, please participate. We do pay attention and need your input for continuous improvement.

New people are complementing our existing faculty team extremely well. Key additions such as Dr. Rodney Bagley, neurosurgeon and new veterinary clinical sciences department chair, and Dr. Michael Cho in biomedical sciences, continue to build our leadership recognition. The Lloyd Veterinary Medical Center is also gaining with additions in ophthalmology, surgery, exotic and avian medicine, small animal primary care and other areas. Active searches for specialists in neurology, surgery and oncology are underway. We are attracting and retaining top, nationally respected faculty in all areas.

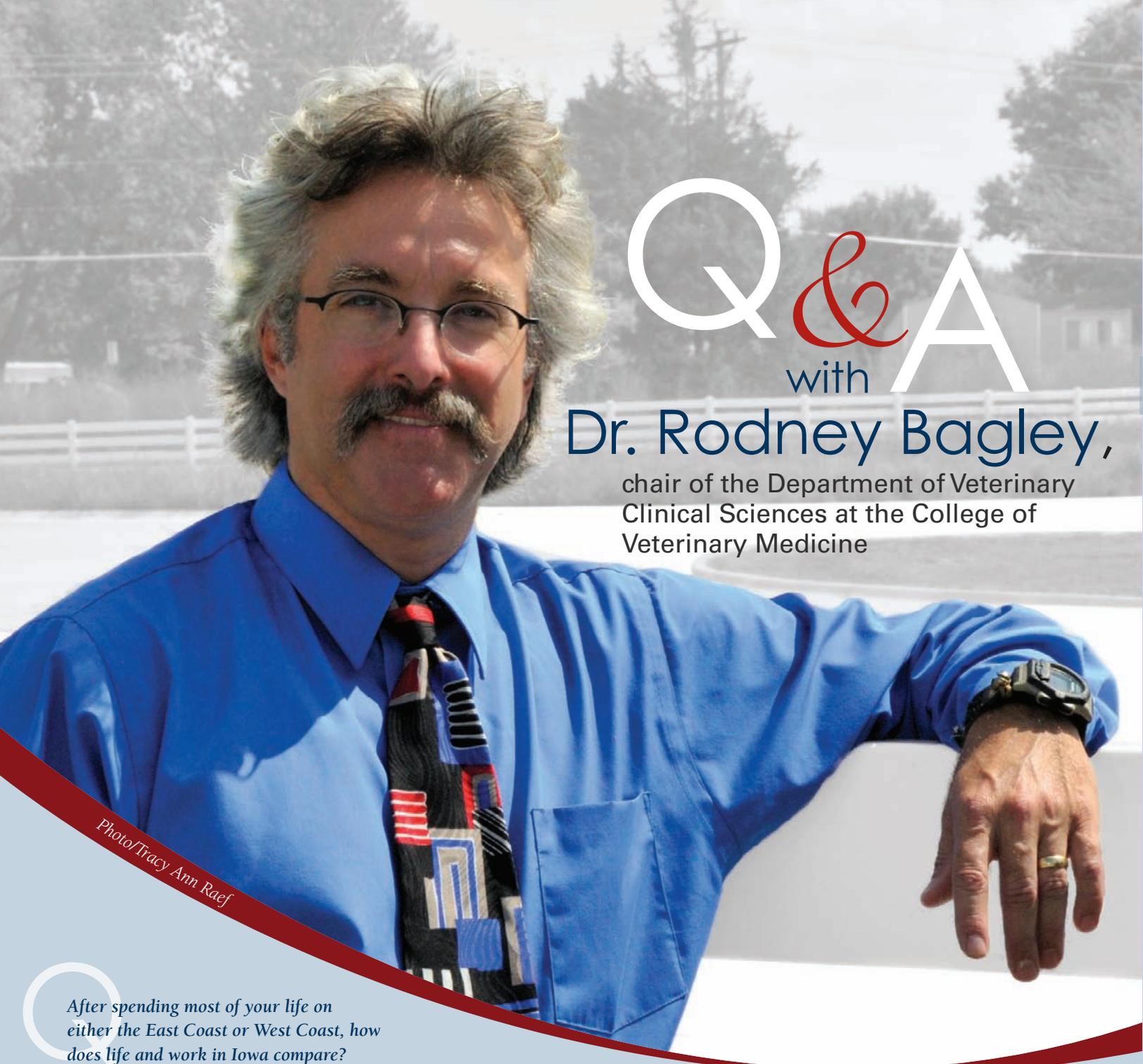
Back-to-back successful fundraising years couldn't have come at a better time as state budgets suffer in a slumping economy. We suffered the largest budget cut in college history last year and despite the generosity of our alumni and donors, we expect that this will be another tough budget year. We will accommodate whatever may come. The challenge will be to do so without compromising the quality of our research, teaching and service.

We sincerely thank you for all that you have done for the college professionally and through your generosity. You do make a difference. The excitement of the campus is contagious and we hope you will take advantage of any opportunity you can find to stop by and experience all that you are making possible.

Sincerely,

A handwritten signature in black ink that reads "John U. Thomson". The signature is fluid and cursive, with the first letters of each name being capitalized and prominent.

Dr. John U. Thomson, Dean



# Q & A with

## Dr. Rodney Bagley,

chair of the Department of Veterinary  
Clinical Sciences at the College of  
Veterinary Medicine

*Photo/Tracy Ann Raef*

*After spending most of your life on either the East Coast or West Coast, how does life and work in Iowa compare?*

**A.** My family and I are excited about living in Iowa. It's a new geographic experience for all of us. I like open spaces. In Washington, we lived out of town surrounded by wheat fields. We built a great deck for outside relaxation. In Iowa we live in a great place to sit and watch the sun set over the corn fields surrounding our home. So I am working on the deck here.

*What sparked your interest and subsequent specialization in neurology?*

**A.** Neurology is historically a rather difficult subject for many, and at the time I started training, relatively few veterinarians went on to specialize in this area. This may have been part of the draw for my interest, and potentially the challenge. After 20 years, I am very glad that I became interested in this subject, because it is so fundamental to life. Veterinary neurology as a specialty has grown significantly in the past number of years, as more students find this an interesting specialty. Maybe part of this is that we might be teaching this subject a little better, too. Veterinary neurologists are also very marketable, both in academia and in the private sector. Additionally, neurology is one of the few specialties where one can deal with complex medical and surgical problems at the same time, as

## About Dr. Bagley

DVM – 1986, Virginia-Maryland  
Regional College of Veterinary  
Medicine

Diplomate – American College of  
Veterinary Internal Medicine

Diplomate – American College  
of Veterinary Internal Medicine  
(Specialty of Neurology)

Previous Position: Professor,  
Department of Veterinary  
Medicine and Surgery,  
Washington State University  
(1992-2009)

most neurology residencies (training programs) have neurosurgery as a significant component of the training. This training allows the veterinary neurologist to deal with all aspects of neurologic disease, both from the medical side as well as the surgical side. I also find it fascinating that veterinary neurologists use a significant portion of their own nervous systems to study the nervous system of animals!

*In today's environment, would you encourage veterinary students to specialize?*

A. Specialization is certainly important for veterinary medicine today as the amount of information regarding many aspects of veterinary medicine is increasing rapidly, as with all aspects of medicine in general. This will most likely continue, as the access to advanced training programs and subsequent employment opportunities increase. Students, hopefully, will continue to find specialization something they want to sacrifice for, specifically through the additional years of study and training. Concurrently, however, there is also a need for well-rounded practitioners who will service a wide array of problems. In either event, what will really matter is competence in whatever aspect of veterinary medicine one chooses. Competence (and expertise) is founded on practice! In many ways, specialization allows one to focus in on the things they need to practice and, therefore, become experts at. Regardless, there are fundamental skills that veterinarians have that make our profession unique. We are some of the best "observational scientists" around.

*What are the challenges and opportunities for the next couple of years in the veterinary clinical sciences department?*

A. The Veterinary Clinical Sciences Department has a wealth of opportunities and challenges. One of the most exciting things happening is the planning and subsequent building of Phase II of the hospital construction, which will primarily involve remodeling and expanding the small animal hospital. This is a great opportunity that very few colleges are looking forward to in the future, especially in this economic climate. A modern hospital with cutting-edge equipment to serve clients and students is a great opportunity that the department embraces. Obviously, the challenge is that, in addition to their hospital, teaching, and research commitments, the VCS faculty have spent numerous hours thinking and planning this hospital building. The amount of faculty hours involved is a tangible tribute to the quality of the faculty in the department who are doing all of this work in addition to their day jobs.

*Tell us about your family, pets and hobbies.*

A. My wife, Lynn, is working in the college's research office. She is an accountant by training. Our oldest son lives in San Francisco and is a PhD candidate in neuroscience at the University of California, San Francisco. Our daughter is a dance major at Cornish College of the Arts in Seattle. Our youngest son will be a sophomore at Ames High School. To round out the family we have three dogs and three cats which are enjoying the farm house, and are most happy to just be out of the car after our two-day marathon drive from Washington to Iowa at the end of June. When I have a free moment, I am looking to get back to my Aikido training.

# Pasture to Plate

## Veterinary Students Hit the Road to Learn More About Stocker Operations

Logging 2,850 miles across seven states in seven days, six veterinary students and two faculty members traveled to the heart of stocker country. Departing from Iowa, the group drove to Nebraska and continued through Kansas, Oklahoma, Texas, Arkansas, Louisiana and Mississippi, stopping along the way to get a firsthand look at stocker and background operations of the Great Plains and Southeast. The road trip, known as “Grass Cattle 101,” was part of the college’s Beef Production Immersive Knowledge Experience (BPIKE) program. The trip provided a look at a segment of the cattle industry that has been increasingly important during tough economic times. The BPIKE program was made possible by support from Ft. Dodge Animal Health, Bayer Animal Health, and Elanco Animal Health.

Stocker operators buy lightweight feeder calves from sale barns and ranches, and graze them for a variable time period before sending them to the feedlot. “Stocker operations do the feeding industry a great service,” said Dr. Terry Engelken, associate professor of beef production medicine, at Iowa State’s College of Veterinary Medicine. “They take calves from multiple sources, process them (castrate, dehorn, vaccinate), get them healthy and eating, and then market them in truckload lots.

“During the BPIKE program our students worked on the feedyards where they saw calves entering the feedyard at 650 to 800 pounds,” Dr. Engelken said. “But they didn’t see where those calves gained those additional 200 to 350 pounds after they were weaned. The road trip was a way for the students to see the source of these calves.”

During the trip, students visited different operations and saw four to five types of forage that result in four to five different production systems and marketing strategies to get that calf big enough to go to the feedlot. There’s no cookie-cutter type of stocker operation and that’s what adds to the complexity of those operations.

Dr. Engelken explained that stocker operators are really grass farmers who market their forage through their cattle. “They talk about managing the cattle on grass, but what

they’re really doing is managing the grass to optimize cattle performance.”

“Visiting so many operations in different states helped me learn what to expect when my future clients receive cattle from these operations in terms of geography and climate, and what accommodations were used to mitigate weather conditions such as heat, high winds and cold,” said Theresa Henrickson, first-year veterinary student and BPIKE participant.

Students learned that stocker operations are a margin-driven business and veterinarians need to understand what the owner wants to do with the calves and how long they want to own the cattle. Besides knowing the ownership strategy, veterinarians have to understand stocker cattle management and health. “Most important, veterinarians have to take the time and show interest if they want to work with these producers,” Dr. Engelken said.

“I learned everything from the importance of stockers within the industry to specifics regarding individual operations feed and treatment protocols,” said Ms. Henrickson.

Making use of significant windshield time, Drs. Engelken and Dee Griffin, beef production management veterinarian at the University of Nebraska, reviewed various topics with the students such as decreasing the stress to cattle during handling, cattle supply economics and how to structure a holding facility so it’s less likely that a sick animal would escape notice. There was also an afternoon session on calf nutrition and implants provided by Dr. Doug Hufstедler of Elanco Animal Health. “We even taught the students how to tie a knot in a rope so the calf doesn’t get loose and hurt them.”

Dr. Griffin says the BPIKE program is great way for students to understand the cattle industry. “The BPIKE program isn’t about making junior managers out of the students,” said Dr. Griffin. “Students start by working on the operation to understand the difficulties involved in the individual jobs on the feedyard and stocker operation. We want the students to understand that in agriculture there are no Most Valuable



BPIKE students on the road in Rosalia. Left to right: Rachel Freese, Blaine Johnson, Diane Fletcher, Adlai Schuler, Dean Feasenhiser, and Theresa Henrickson.

Players. If an animal needs a drink of water, the person with the water tank brush who is making sure that the water is clean, fresh and wholesome, is the most important person in that animal's life at the time. It's not the manager, owner, PhD nutritionist nor the DVM, it the person with the water. We want the students to have an appreciation for the vital role of each person who takes care of these wonderful creatures from God."

Dr. Griffin credits Dr. Engelken with the vision for the trip and its organization. "It was one of the best weeks I've spent in several years."

*The Beef Production Immersive Knowledge Experience is a summer program designed to give students hands-on, practical experience and an inside look at production animal medicine. For more information about the program, contact Dr. Terry Engelken (engelken@iastate.edu).*

## *Grass Cattle 101 Road-Trip Stops*

- Kansas State University Beef Stocker Unit in Manhattan, Kans.
- Kansas State University College of Veterinary Medicine in Manhattan, Kans.
- Gottsch Cattle Company – Rosalia Ranch in Rosalia, Kans.
- Gallery Ranches in Copan, Okla.
- Samuel Roberts Noble Foundation in Ardmore, Okla.
- Gottsch Cattle Company – Island Plantation in Natchitoches, La.
- Mississippi State University College of Veterinary Medicine in Starkville, Miss.
- B. Bryan Farms and Prairie Livestock in West Point, Miss.
- Pendergrass Cattle Company in Charleston, Ark.

## *A Special Thanks to:*

- Fort Dodge Animal Health
- Bayer Animal Health
- Elanco Animal Health
- Great Plains Veterinary Educational Center at the University of Nebraska-Lincoln
- Gottsch Cattle Company feedlots in Juniata and Red Cloud, Nebr.
- Circle 5 Beef feedlots in Henderson and Fairmont, Nebr.



# Collaboration Builds the Next Generation of Research Facility for Swine

Iowa State University researchers have recognized a need to evaluate a broader range of impacts on swine when studying health or performance. Studies of the past have focused on detecting the changes in animal behavior, performance or health, depending on the disease or intervention under study. Now a facility exists to record and measure all three simultaneously during any research trial. Studies conducted in the new facility will meet the public's higher expectation for consideration of the welfare implications of every study – an expansion beyond pure physiological or performance data collection. “This type of integrated, interdisciplinary approach is a key concept in animal welfare research,” said Dr. Suzanne Millman, associate professor of animal welfare at the College of Veterinary Medicine.

The Swine Intensive Studies Laboratory at the College of Veterinary Medicine is a one-of-a-kind, state-of-the-art facility. From inception to invention, it is a testament to the collaboration among faculty in

different areas of swine production and across different academic disciplines – animal science, veterinary medicine, agricultural engineering, and laboratory animal resources.

Driving the development of the facility was the desire to be proactive for the swine industry and to provide real-time tools for veterinarians and producers. The only way to do that in a timely and economical manner was to combine several types of equipment on site. Converting an underutilized space in the university's laboratory animal resources department in the College of Veterinary Medicine, researchers gathered equipment and technology from different fields, including human and companion animal medicine; and, when necessary, they designed their own.

Before the facility was built, researchers conducted studies at area farms, marshalling their resources to get equipment and staff offsite. They also had to narrow the scope of their studies because the facilities didn't have the equipment to measure all the parameters that they wanted. Field trials inherently have more variation and fewer options to set up equipment for the long-term

so each trial involved a set-up and tear-down phase.

The new facility solved those limitations, offering a more efficient facility for swine research studies, one of which is sow lameness.

“Lameness is a huge cost to producers and it’s the second most identifiable reason why sows leave the breeding herd,” said Dr. Ken Stalder, professor of animal science at ISU’s College of Agriculture and Life Sciences. Many of the studies being conducted at the facility focus on lameness and how to identify it and most effectively treat it. New equipment in the swine facility that helps researchers study lameness are a static force plate and a gait evaluation course.

“Sows have gait differences, almost like a fingerprint,” said Dr. Locke Karriker, assistant professor of swine medicine at ISU’s College of Veterinary Medicine. “The gait system is a 14-foot rubber mat with over 1,000 sensors that record the sow’s gait as it moves across the mat, which is hidden under consistent flooring,” Dr. Karriker said. “We are building system software that analyzes the data for sows.” Like a lot of equipment used in veterinary medicine, the system was originally designed for humans, adapted for use on dogs, and now sows.

The static force plate housed in the facility has four separate cells to measure pressure the sow places on each limb while standing. Data for the study can be collected with a set time while the sow has free access to feed. While the sows were on the force plate, researchers noticed that the speed of eating varied from sow to sow resulting in a student project. As the industry moves to pen housing, the student plans to focus research on whether it might be more important to group sows according to how fast they eat, rather than their size.

Sow eating habits aren’t the only behavior that researchers are able to study at the facility. “When studying sows, we often don’t know what normal is,” said Dr. Anna Johnson, assistant professor of animal behavior and well-being at ISU’s College of Agricultural and Life Sciences. “The facility has two rows of seven stalls that, when joined, are mirror images of each other, allowing us to conduct preference testing. Above each pen are cameras capable of recording in black and white or color, and we have the ability to record nocturnal behavior, as well.”

“The ability to use sows as their own control group is statistically powerful,” Dr. Stalder said. “It allows us to be more accurate in our scientific process than we’ve ever been able to do in field studies, plus we can use far fewer animals to test the same differences.”

“We have some unique opportunities with novel biotelemetry equipment that can provide real-time integration of an animal’s physiologic and behavioral responses,” Dr. Millman said. “I’m looking forward to our upcoming collaborations with the swine team to validate some of our novel pain tests in the lame sow.”

The facility also offers unique opportunities for training swine producers and veterinary students in low-stress swine handling techniques. Dr. Millman and postdoctoral fellow Dr. Ray Brooks

have received a grant to develop the Iowa Swine Welfare School. Together with the swine team, Drs. Millman and Brooks will illustrate the effects of swine handlers on pig behavior and physiology as the pigs navigate through a series of tests. “Reducing pig stress is critical for producing quality pork, the once-implemented the Iowa Swine Welfare School will enable swine handlers to learn new techniques and directly observe the effects of their handling techniques on the pigs,” Dr. Millman said.

Another advantage for researchers is the flexibility of the facility. “We’ve created this space with the concept that we can do a study on any kind of pig,” Dr. Johnson said. “We can reconfigure the space to house crates and we can accommodate any age group.” Planned studies will focus on the objective assessment of pain and pharmacological interventions.

That flexibility also includes the different types of research that can be performed. “We’ve got the ability to assess behavior with a 24/7 monitoring system, and we have the Veterinary Diagnostic Laboratory to analyze the physiological aspects,” Dr. Karriker said. “Laboratory animal resources and agricultural engineering can help us with any equipment or space problem; and we have a full complement of animal health and production experts at our doorstep.”

“The collaboration that goes along with developing and implementing the facility has been phenomenal,” Dr. Stalder said. “And it’s fun.”

Inquiries regarding possible research projects can be directed to:

**Dr. Locke Karriker**, College of Veterinary Medicine, [karriker@iastate.edu](mailto:karriker@iastate.edu)

**Dr. Ken Stalder**, College of Agriculture and Life Sciences, [stalder@iastate.edu](mailto:stalder@iastate.edu)

**Dr. Anna Johnson**, College of Agriculture and Life Sciences, [johnsona@iastate.edu](mailto:johnsona@iastate.edu)

*The following have contributed substantial expertise, time and resources to the laboratory:*

**Drs. Ron Morgan and Joel Wormley**, ISU Laboratory Animal Resources

**Dr. Rob Fitzgerald**, ISU College of Agriculture and Life Sciences

**Ms. Lori Layman and Dr. Suzanne Millman**, ISU College of Veterinary Medicine

**Dr. Steve Hoff and Gang Sun**, ISU Agricultural and Biosystems Engineering

**Veterinary and Animal Science Students:** Morgan Siegrist, Brett Kroeze, Clay McGargill, Allison Meiszberg, Whitney Holt

# Expands Services FOR Avian Exotic Pets



*Dr. Bianca Zaffarano and fourth-year student Dianne Beal examine guinea pig patient Napoleon Milkshake.*

**D**r. Bianca Zaffarano is the newest addition to the Dr. W. Eugene and Linda Lloyd Veterinary Medical Center's small animal primary care clinic. Dr. Zaffarano joins the VMC following 22 years of private veterinary practice in avian and exotic animal medicine.

At the VMC, Dr. Zaffarano provides routine preventive and advanced medical and surgical care for all exotic pets, including ferrets, birds, insectivores, rabbits, turtles, rodents, and reptiles. Dr. Zaffarano also consults with clients to determine whether an exotic is the right choice for them and provides advice on how to care for the pet. She advises clients to do their homework before getting a nontraditional pet and consult a veterinarian to learn about the species' behavior and needs. In addition to the specialized services for exotics, the VMC has separate facilities for them including separate examination rooms, and special equipment and hospital ward designed for exotics.

Dr. Zaffarano, a 1986 graduate of Iowa State University's College of Veterinary Medicine, developed her interest in avian and exotic animal medicine early in her career when she was a private practitioner in upstate New York. "A client had a sick green-cheeked conure and couldn't find a veterinarian who could treat it," said Dr. Zaffarano. "The client brought the bird to our clinic and we treated it." Word spread that the clinic would see birds and became the go-to clinic for a five-county area in New York. She has treated wallabies, hedgehogs, sugar gliders, madagascar tree geckos, and reptiles of all sorts. She has been a guest speaker and lecturer at veterinary conferences and local community groups. Dr. Zaffarano has also served as an adviser and consultant to local animal sanctuaries.

"Exotic animal medicine is a rapidly expanding, exciting young field, and I am delighted to return back to my alma mater, and contribute in some small measure to the school which equipped me to enter a field that has provided me with an exciting and extremely satisfying career," Dr. Zaffarano said. "It's exciting to bring a service to Iowa State that will give young veterinarians a broader education as they enter the work force."

# Development News

Looking back over the past two years we have had the best fundraising years in College of Veterinary Medicine history. More than 4,000 donors helped make Phase 1 of the Lloyd Veterinary Medical Center a reality. Equally important, we have reached 80 percent of the college's Campaign Iowa State goal. This effort continues to support the faculty, students, programs, and facilities at the college that are so important to us, the veterinary medical education process, and the veterinary profession.



Jeff Spielman

The new addition of the Lloyd Veterinary Medical Center completes Phase I of a two-part plan that will dramatically enhance our ability to provide exceptional veterinary healthcare services and make better use of rapidly changing advancements in veterinary medicine and technology.

Now we are beginning Phase II – the renovation and expansion of the small animal hospital. This project will include many enhancements that will help us provide the best care possible for companion animals, such as:

- Updated exam, treatment and waiting rooms and other client areas
- New intensive care recovery unit, emergency room and isolation wards
- Improved rehabilitation area
- Computer stations in each room that will provide medical records, digital images and educational materials
- Larger rooms to better serve clients and companion animals
- New and improved diagnostic and laboratory equipment
- More comfortable client waiting areas with more amenities

We have a \$5.3 million fund-raising goal for the project. With the present global economic climate, we need your assistance more than ever. We are confident in the ability of our alumni and friends to help us reach our goal by June 30, 2012. When we complete Phase II, the college will have one of the finest teaching, learning and service facilities in the nation, something we can all take pride in.

I hope you will take the time to make your donation and help us complete this journey. Thank you for all you have done and for your future efforts to take us to where we want this college to be.

If you'd like to learn more about Phase II, please contact me.

Best regards,

A handwritten signature in black ink that reads "Jeff Spielman". The signature is written in a cursive, slightly slanted style.

Jeff Spielman  
Senior Development Director  
Spielman@iastate.edu

PS: Shane Jacobson, who has served as a development director in the college for the past three years, has accepted a leadership position in another Iowa State college. We wish Shane well and thank him for his efforts and many contributions. We expect to introduce a new development officer soon.

# College NEWS

## Reimer Receives 2009 Switzer Award in Veterinary Medicine

Dr. Ken Reimer ('65) was honored with the William P. Switzer Award in Veterinary Medicine on August 14, at the College of Veterinary Medicine's Research Day. The award, given annually, recognizes individuals who have made significant contributions to society through their achievements, or have made major contributions to the enhancement of the College of Veterinary Medicine.

Throughout his career, Dr. Reimer has been known for his dedication and commitment to the dairy industry in northeast Iowa. He was instrumental in establishing the National Education Center for Agricultural Safety at the Northeast Iowa Community College. The center provides safety training in areas such as tractor rollovers, anhydrous ammonia, community health, agricultural fire safety and rescue.

In 1997, Dr. Reimer was elected to the Northeast Iowa Community College Board of Trustees where he raised funds for student scholarships. He has served as the board's president since 2005. Dr. Reimer is one of the primary individuals who initiated the Northeast Iowa Dairy Foundation located at Calmar.

Since 1966, Dr. Reimer has donated his time at the Clayton County Fair, where he serves as the official veterinarian. He also teaches animal safety at the Clayton County Fourth-Grade Safety Day. For several years, Dr. Reimer has taught third-graders about the ruminant digestive system as part of the Dairy Story at the Dairy Center which has hosted over 5,000 children.

In 2007, Dr. Reimer was inducted into the Iowa 4-H Hall of Fame, in recognition of support of 4-H.

A former practitioner in Elkader, Iowa, Dr. Reimer was one of the leaders in the area of embryo transfers in northeast Iowa. He is a member of the Iowa Veterinary Medical Association and the American Veterinary Medical Association. He and his wife, Alice, have three children.

*Established in 1998, the Switzer Award is named in honor of Dr. William*

*P. Switzer, distinguished professor emeritus at the College of Veterinary Medicine. His research led to the development of vaccines for atrophic rhinitis and kennel cough.*



*Dr. Ken Reimer Photo/Gary Clarke*

## Thoen Receives Public Health Award from AVMA

Dr. Charles Thoen received the 2009 Karl F. Meyer-James H. Steele Gold Head Cane Award at the American Veterinary Medical Association's annual convention in Seattle. He was honored for his lifelong dedication to advancing veterinary epidemiology and public health, specifically his expertise in tuberculosis in animals and humans.

Dr. Thoen is a professor in the Department of Veterinary Microbiology and Preventive Medicine at Iowa State's College of Veterinary Medicine. During his 32-year tenure at the college, he served as chair of the department and was major professor for 30 PhD and MS students and postdoctoral research associates.

He has authored or coauthored 130 peer-reviewed publications on mycobacteria and mycobacterial



Dr. Charles Thoen (left)  
and Dr. Jim Steele

diseases, numerous chapters for textbooks on infectious disease and two textbooks. He is an associate editor of *The International Journal of Tuberculosis and Lung Disease*. He has been an international speaker, giving 184 presentations at professional meetings in 25 countries. He is a diplomate (honorary) of the American Veterinary Epidemiology Society.

Dr. Thoen received his DVM and PhD from the University of Minnesota. Prior to joining the faculty at Iowa State, he was head of the Mycobacteria and Brucella Section at the National Veterinary Services Laboratories, APHIS, USDA. This section provided laboratory support to the National Tuberculosis and National Brucellosis Eradication Programs.

He also chaired the Committee on Animal Tuberculosis of the World Health Organization and the Scientific Committee on Tuberculosis in Animals of the International Union Against Tuberculosis.

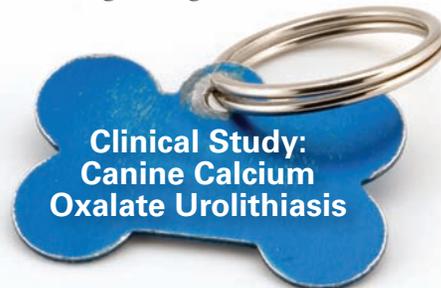
Commenting on his award, Dr. Thoen said: "I was pleased and honored to receive the prestigious Karl F. Meyer–James H. Steele Gold Cane Award. I am grateful for the emphasis on epidemiology of infectious diseases (i.e., tuberculosis and brucellosis)."

## Textbook Donations to the Philippines

Dr. Eldon Uhlenhopp, associate dean for academic and student affairs, outreach and operations; and Ms. Katie Davidson, international programs assistant, were recently honored with plaques of appreciation for the college's efforts with textbook donation to the Philippines.

For the past 18 months, Dr. Uhlenhopp and Ms. Davidson have worked diligently with Dr. Cirilo Reyes of Seaboard Foods, to donate more than 400 used veterinary textbooks and journals to five different veterinary schools throughout the Philippines. Many of the schools have very limited libraries, so they appreciate any and all materials they receive.

The plaques were presented by Dr. Reyes on behalf of the Venerable Knight Veterinarians Fraternity and the Venerable Lady Veterinarians Sorority to express the appreciation of all five of the schools: University of the Philippines Los Baños, Visayas State University, Pampanga Agricultural College, Cavite State University and Tarlac College of Agriculture.



A study evaluating for a risk factor in Bichon Frise Dogs for Calcium Oxalate Urolithiasis is being performed at the Lloyd VMC. If you have a Bichon Frise Dog with a confirmed CaOx stone, a history of CaOx stones (but no current stones), or is otherwise healthy without suspicion of a stone, please contact Dr. Jessica Clemans at [jessiec@iastate.edu](mailto:jessiec@iastate.edu) or (515) 294-4900. Participants in the study will receive a screening radiograph and bloodwork for the risk factor will be obtained.

## Nominations Sought

The College of Veterinary Medicine invites nominations for the 2010 Stange Award for Meritorious Service. Established in 1970, the award recognizes outstanding professional achievements in the areas of education, government, industry, practice or other endeavors in veterinary medicine. Conferred annually, the award is named for Dr. Charles Stange, former dean of the college (1909-1936).

**Please send nominations to Dr. Jim West at [jkwest@iastate.edu](mailto:jkwest@iastate.edu). Nominations will be accepted until February 1, 2010.**

# Alumni NEWS

## CDC Honors Holzbauer

Dr. Stacy Holzbauer ('02) received the 2009 James H. Steele Veterinary Public Health Award from the Centers for Disease Control and Prevention at the 58th Annual Epidemic Intelligence Service (EIS) Conference in Atlanta, Ga. The award recognizes excellence in veterinary public health and is given annually to EIS officers. The award is named for Dr. James Steele, the veterinarian who became the first chief of the Veterinary Public Health Division at the CDC in 1947. In addition, she received the Alexander D. Langmuir Prize Manuscript Award. This award recognizes outstanding manuscripts of epidemiologic investigations and is named after Alexander D. Langmuir who founded the EIS program in 1949. It is the most prestigious award offered to EIS officers and Dr. Holzbauer received this award from a pool of 22 nominees.

Dr. Holzbauer was recognized for her efforts as the lead investigator during a multistate outbreak of unexplained neurologic illness in pig slaughterhouse workers, in addition to her work in foodborne and zoonotic disease investigations. Her manuscript summarized the investigation of the unexplained neurologic illness in pig slaughterhouse workers. In addition, two former College of Veterinary Medicine graduates, Dr. Kirk Smith ('90) and Dr. Bryan Buss ('89), were coauthors of the manuscript and integral members of the investigation team.

Prior to EIS, Dr. Holzbauer was the coordinator for the CDC's Get Smart on the Farm program and was instrumental in development of a judicious antimicrobial usage for the veterinary student curriculum. As an EIS officer, she was stationed at the Minnesota Department of Health (MDH). She is currently a CDC career

epidemiology field officer at MDH and lieutenant commander with the U.S. Public Health Service.

Dr. Holzbauer was formerly employed at the college's Center for Food Security and Public Health while earning her MPH degree ('04) from the University of Iowa. She received her DVM degree from Iowa State University in 2002.



## No Tweets, Twitters or Blogs

Just news! The College of Veterinary Medicine has included a section on its Web site for class notes. The section can be located by clicking on "Alumni" on the college home page, and clicking "Class Notes" on the drop-down menu.

To get your news online, all you need to do is to complete a news submission form on the "Alumni" section. Types of news that will be posted can include birth and marriage announcements, new jobs, and awards. Items that will not be posted include for sale or help wanted ads. News items should be brief, so the information box has been limited to 300 characters – more than a Tweet, but not enough to merit a blog!

If you have any questions, please contact Tracy Ann Raef at [traef@iastate.edu](mailto:traef@iastate.edu)



# In Memoriam

The Iowa State University College of Veterinary Medicine wishes to express its heartfelt sympathy and condolences to the families and friends of the following alumni.

## 1940s

James O. Foss ('40)  
Minot, N.D.,  
died November 28, 2008

Wallace J. Butson ('44)  
Wells, Minn., died March 4, 2009

Allen N. Lang ('44)  
Solon, Iowa, died May 17, 2009

Richard P Luedtke ('45)  
Eastport, Idaho,  
died December 11, 2008

William R. Preston ('49)  
Clear Lake, Iowa,  
died April 6, 2008

## 1950s

John F. Hudelson ('51)  
Parachute, Colo.,  
died February 19, 2009

Earl E. Schobert ('52)  
Lutz, Fla.,  
died June 8, 2009

Don W. Thomas ('53)  
Hyde Park, Utah,  
died December 8, 2008

Meredith H. Moore ('53)  
Clear Lake, Wis.,  
died May 17, 2009

Granville H. Frye ('54)  
Bowie, Md.,  
died March 21, 2009

Paul N. Moser ('55)  
Postville, Iowa,  
died July 4, 2009

Joseph H. Krichel ('57)  
Naples, Fla.,  
died May 12, 2009

## 1970s

Jerald L. Jarnagin ('76)  
Ames, Iowa,  
died May 22, 2009

Bruce Dietrich ('78)  
Charles City, Iowa,  
died March 27, 2009

## 1980s

William H. Steinkruger ('80)  
Cottage Grove, Ore.,  
died February 21, 2009

Susan M. McGraw ('85)  
Rochester, N.Y.,  
died July 2, 2008

## 1990s

Kathleen M. Siebeck ('91)  
Camano Island, Wash.,  
died March 22, 2009



Photo/Tracy Ann Raef

## ON THE COVER

From back: Drs. Locke Karriker, Anna Johnson and Ken Stalder in the next generation swine research facility. Story on pages 8 and 9.

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Office of Development .....	(515) 294-8562
Lloyd Veterinary Medical Center	
Small Animal Clinic.....	(515) 294-4900
Large Animal Clinic.....	(515) 294-1500
Veterinary Diagnostic Laboratory .....	(515) 294-1950
General College Information.....	(515) 294-1242

## gentle Doctor

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IOWA STATE UNIVERSITY

College of Veterinary Medicine  
Ames, IA 50011-1250

Return Service Requested



## College Lecture Room Gets a Major Facelift

During the summer, one of the college's main lecture rooms (Room 2532) was renovated. New features included improved seating and tables, acoustical paneling and flooring, new projectors, and a whiteboard to replace the blackboard. The room is now compliant with the American Disabilities Act.