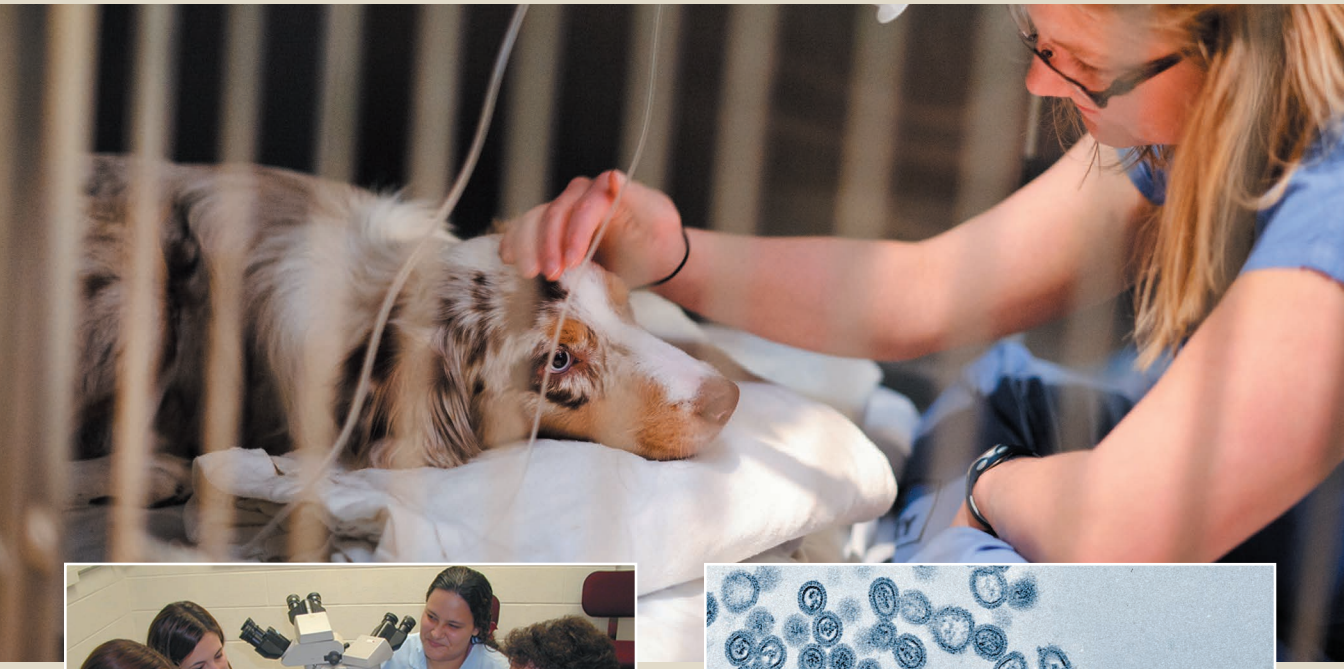
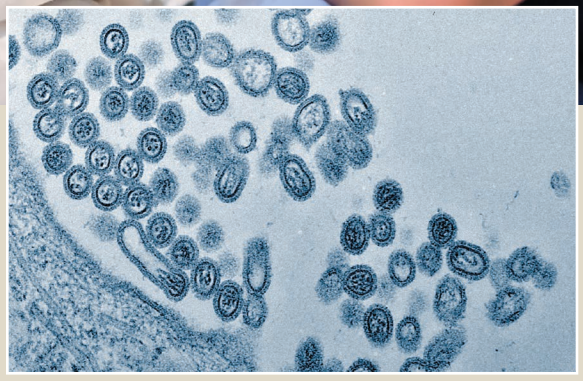
LEADING THE WAY
in Veterinary Medicine





School of Veterinary Medicine
UNIVERSITY OF WISCONSIN–MADISON
Advancing animal and human health with science and compassion

ANNUAL REPORT
2012-2013

LEADING THE WAY IN VETERINARY MEDICINE

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Dale Bjorling, Associate Dean for Research and Graduate Training

Ruthanne Chun, Associate Dean for Clinical Affairs

Lynn Maki, Interim Associate Dean for Academic Affairs

Ed Rodriguez, Associate Dean for Budget and Finance

Kristi V. Thorson, Associate Dean for Advancement and Administration

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Writing, Editing, Design, Photography

Nik Hawkins (unless otherwise noted)

Additional Photo Credits

Cover: Jeff Miller (top); Tania Banak (left); Takeshi Noda (right)

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School of Veterinary Medicine
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A MESSAGE FROM THE DEAN

I am pleased to present the University of Wisconsin School of Veterinary Medicine 2012-2013 Annual Report.

The time frame of this report encompasses some major changes at the school. Daryl Buss retired in June 2012 after 18 years of service and Jonathan McAnulty served as interim dean throughout the summer of 2012. I was appointed dean on September 1, 2012, and since that time, we've named three new associate deans and two new department chairs who have taken on significant leadership positions within the school. We also have completely redesigned our website and undergone a strategic planning exercise.

The strategic plan, which will guide the school in the coming five to seven years, focuses on continuing and building upon our excellence and leadership in research, teaching, and clinical practice. As a critical part of our future success, we will continue to emphasize the importance of diversity and inclusivity to all who work and learn here.

This annual report highlights some of the initiatives that we have undertaken to achieve our strategic priorities. These are just a sampling of the many great things that the school is pursuing and achieving. I cannot be more proud of the people I interact and work with every day.

Sincerely,

Mark D. Markel, PhD, DVM
Dean
Distinguished Vilas Professor

The spring sun shines on the front entrance to the Veterinary Medicine Building.

STRATEGIC PLANNING: A Guide for the Future

As the University of Wisconsin School of Veterinary Medicine moves forward in advancing animal and human health, a new strategic plan will serve as its trusty compass. Recently, a strategic planning group of faculty and staff refined the school's mission, vision, and fundamental principles. In addition, following a spring and summer of conversations between Dean Mark Markel and numerous stakeholders, the school has established seven strategic priorities that will direct its efforts for the next five to seven years.

Strategic Priorities

1. Retain, recruit, and develop high-caliber and diverse faculty.
2. Strengthen programs in basic, translational, and clinical research.
3. Design an innovative professional curriculum that evolves to prepare students for a breadth of careers and professional opportunities.
4. Recruit a diverse and high-caliber population of students and support their success.
5. Support UW Veterinary Care in achieving its strategic priorities and enhance its integration with the school.
6. Foster a community that stimulates professional enthusiasm, collegiality, and continuous engagement within the school and throughout the University of Wisconsin System.
7. Train the next generation of academic veterinarians to advance veterinary medicine through their outstanding clinical skills, teaching abilities, and research capabilities.

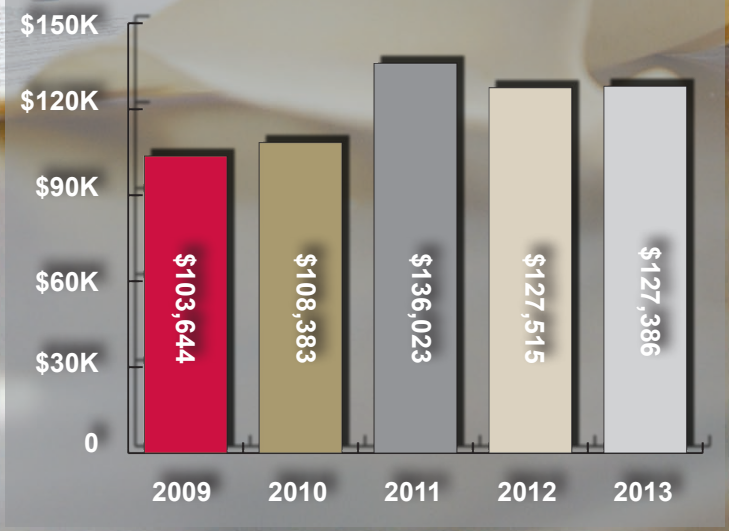
More at **www.vetmed.wisc.edu/strategic-plan**

To learn more about the school's new **Strategic Plan**, including its mission, vision, fundamental principles, strategic priorities, and initiatives, visit **www.vetmed.wisc.edu/strategic-plan**

Fourth-year student Alyson Manthei trims a Crowned Crane's beak as part of a health examination at the International Crane Foundation in Baraboo, Wisconsin. Overgrown beaks can sometimes interfere with eating.

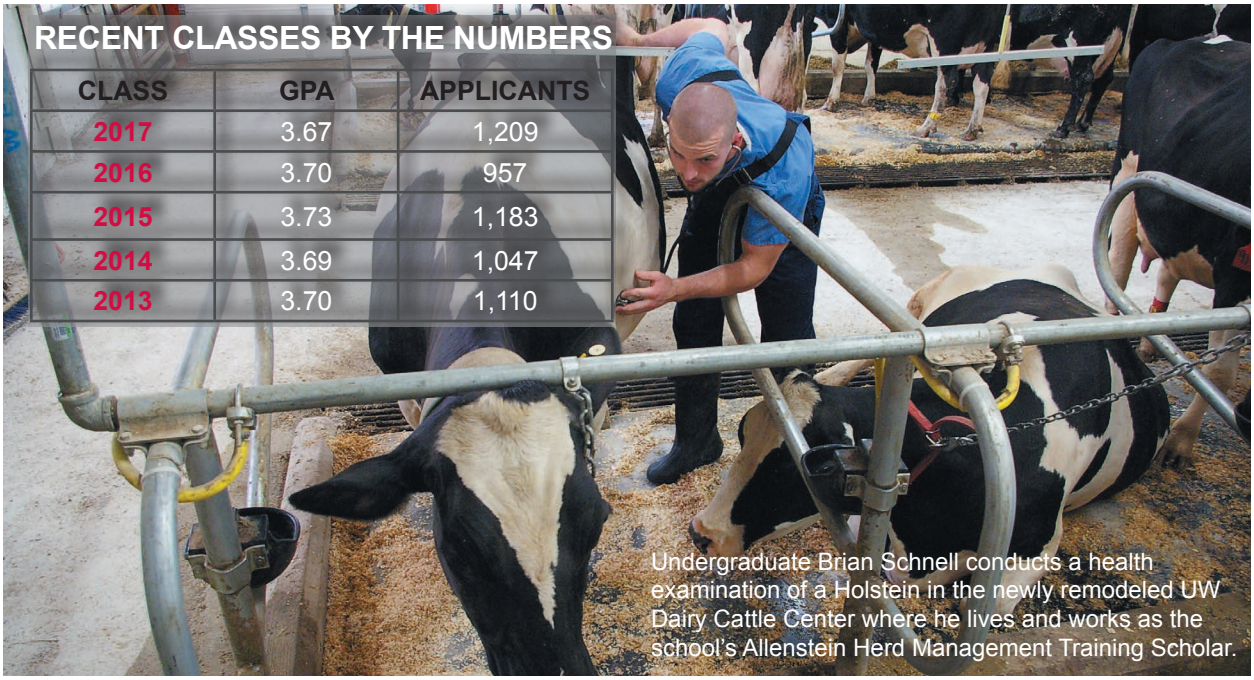
First-year students examine bones from various species in the Introduction to Anatomy session during orientation.

STUDENT DEBT LOAD UPON GRADUATION



RECENT CLASSES BY THE NUMBERS

CLASS	GPA	APPLICANTS
2017	3.67	1,209
2016	3.70	957
2015	3.73	1,183
2014	3.69	1,047
2013	3.70	1,110

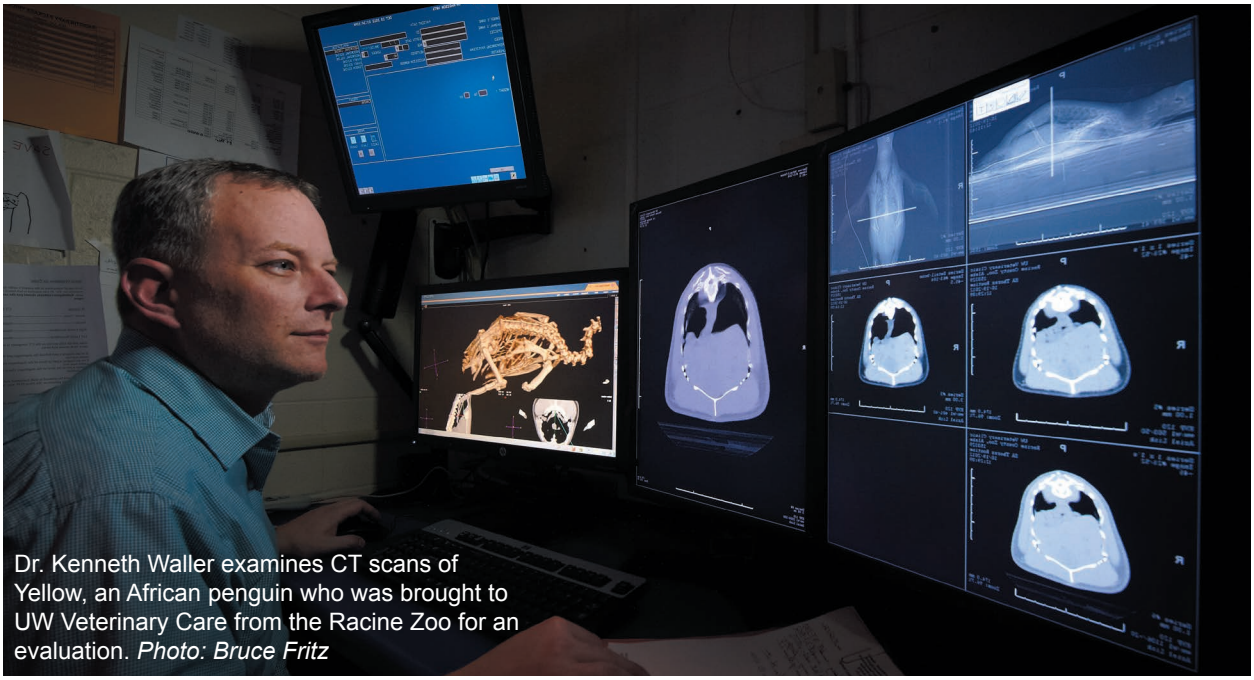


Undergraduate Brian Schnell conducts a health examination of a Holstein in the newly remodeled UW Dairy Cattle Center where he lives and works as the school's Allenstein Herd Management Training Scholar.

VETERINARY MEDICAL EDUCATION Highlights

- Launched a new program of "selectives"—focused, modular courses taught for one week during each of semesters two through five of the Doctor of Veterinary Medicine program. Among other benefits, they increase student exposure to hands-on clinical and research experiences and content areas that traditionally have received less attention due to time constraints. After taking a selectives course on poultry health, third-year student Kolby McIntyre said, "Now I have confidence in my ability to assess poultry management practices as well as flock and individual bird health and make appropriate recommendations."
- Hired an instructional designer to work with faculty on developing Core Competency Modules, "blended learning" courses that will give students experience in seldom-seen clinical areas. The first modules will be piloted in early 2014.
- Using additional funding secured from campus, hired or began searches for seven new faculty in a variety of areas, including food animal production medicine, ophthalmology, medical oncology, neuro- and developmental toxicology, radiation oncology, and special species.
- Secured dedicated space for faculty and students in the newly remodeled UW Dairy Cattle Center. This includes the new Allenstein Herd Management Training Scholar, a student position devoted to coordinating veterinary medical course schedules with the center and preparing animals for teaching purposes.
- Gained campus approval to remodel the non-functionaing solar panel area in the Veterinary Medicine Building to make way for new, up-to-date instructional space.

More at **www.vetmed.wisc.edu/news**



Dr. Kenneth Waller examines CT scans of Yellow, an African penguin who was brought to UW Veterinary Care from the Racine Zoo for an evaluation. *Photo: Bruce Fritz*

CLINICAL SERVICE Highlights

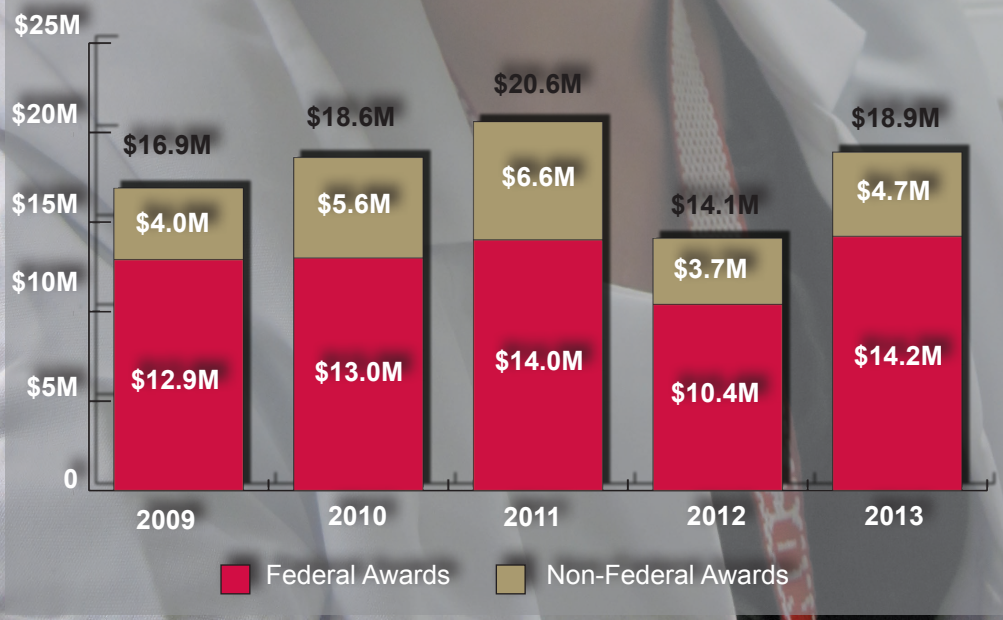
- Earned the gold award in the veterinarian category in the "Best of Madison," *Madison Magazine's* annual readers' poll—a clear indicator of UW Veterinary Care's exceptional quality and a strong sign of satisfaction among clients.
- Utilized a generous gift to purchased a new ophthalmology operating microscope with vastly improved optics and lighting.
- Upgraded UW Veterinary Care's computed tomography (CT) unit with a much faster machine with better resolution. The increased speed ensures that patients typically only need to be sedated rather than anesthetized, which is a much more comfortable situation for the animal. The increased resolution helps with scanning patients with smaller body structures (cats, rabbits, guinea pigs, etc.) and allows for more advanced vascular studies.
- Using gift funds, acquired a dynamic endoscope, a tiny camera that is inserted into a horse's throat through its nose to evaluate how well airways are functioning. It can be used while a horse is moving or being ridden without interference, which is vital for accurate diagnoses because the majority of functional problems in equine upper airways occur during exercise.
- Gained approval to complete two remodeling projects that will better serve UW Veterinary Care's clients: the renovation of a dedicated space for a small animal isolation unit and the redesign of existing pharmacy space to maximize its efficiency and bring it in line with current regulations.

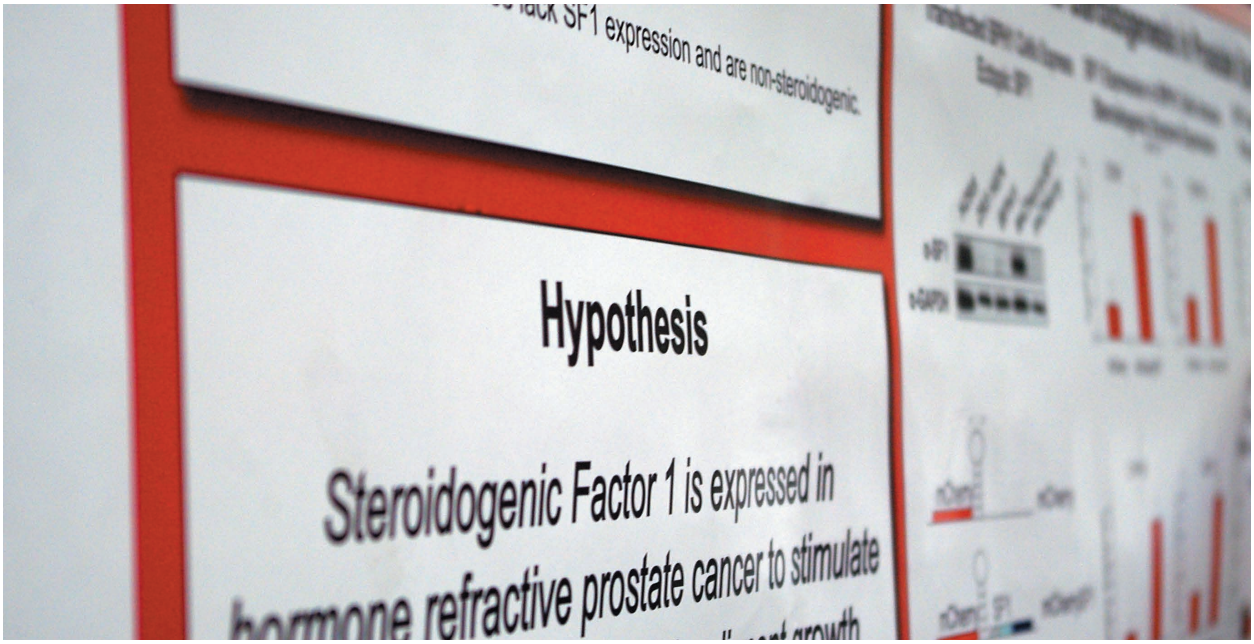
More at **uwveterinarycare.wisc.edu**

Dr. Courtney Arnoldy works with Molly, a two-year-old miniature poodle mix, during a physical rehabilitation session. Dr. Jason Bleedorn used an unusual procedure to reconstruct Molly's triceps tendon following a traumatic injury.

Dr. Sara Colopy's research on the ability of the urinary tract to heal after sustaining an injury earned her a fellowship from the American Urological Association. *Photo: Lori Strelow*

TOTAL RESEARCH AND EXTRAMURAL AWARDS (in millions)





BIOMEDICAL AND CLINICAL RESEARCH Highlights

- Secured nearly $19 million in grants for a wide variety of projects, including developing new drugs to ward off bird flu and other deadly vector-borne diseases; finding new therapies for canine melanoma; investigating new methods for monitoring tendon injuries in horses; and advancing spinal injury treatment.
- Continued efforts to stay a step ahead of bird flu, including a genetic analysis—conducted by Yoshihiro Kawaoka and a team of international researchers—that identified mutations in a strain of the H7N9 virus that allow it to infect and replicate in humans. The study revealed the potential for a global pandemic but also identified existing drugs that would be most effective in preventing it.
- Advanced the use of stem cell transplants as treatments for amyotrophic lateral sclerosis (ALS), or Lou Gehrig's disease, through projects led by Masatoshi Suzuki and Gordon Mitchell. Mitchell's work continued to show significant promise for acute intermittent hypoxia (AIH)—intervals of air containing non-damaging, low oxygen levels—as a treatment for ALS and spinal injuries.
- Enhanced clinical research support for faculty and research training for students by creating a Clinical Research Task Force, Director of Clinical Research position, and Clinical Trials Coordinator and securing statistical support for faculty through the UW Institute for Clinical and Translational Research (ICTR).
- Hosted the school's first Research Day, in collaboration with the Society of Phi Zeta, providing graduate and DVM students, mentored research trainees, interns, and residents with the opportunity to showcase and communicate about their research with the campus community.

More at **www.vetmed.wisc.edu/research**

"Students" at Grandparents University participate in a veterinary medical anatomy lesson.

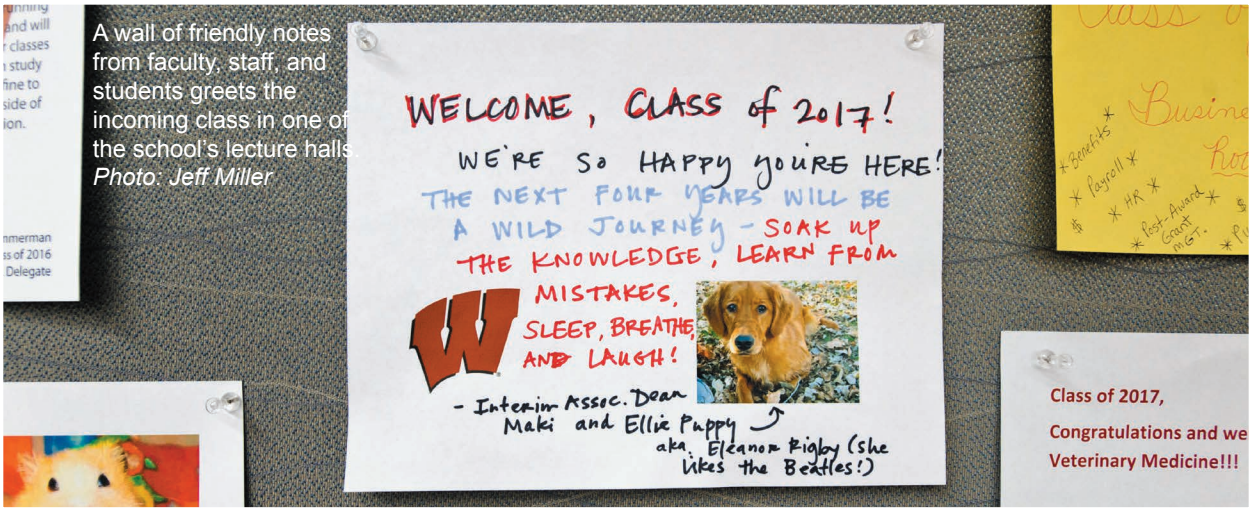
OUTREACH AND ENGAGEMENT Highlights

Faculty, staff, students, residents, interns, and others from the School of Veterinary Medicine and UW Veterinary Care participated in a wide variety of outreach activites this year.

- The school and clinic opened their doors to the public for an Open House, which brought in more than 3,000 visitors, and Grandparents University, an annual two-day event coordinated with the Wisconsin Alumni Association.
- Dr. Sandi Sawchuk continued to share her animal behavior expertise through regular appearances on Wisconsin Public Radio and Madison's WISC-TV Channel 3.
- Faculty, staff, and students volunteered at numerous trade shows, fairs, and special events, including the World Dairy Expo, the Wisconsin Veterinary Medical Association Convention, the Wisconsin Dog Fair, the Midwest Horse Fair, the Wisconsin State Fair, and the Dog Paddle at Madison's Goodman Pool.
- UW Veterinary Care clinicians offered free dental exams for service dogs and volunteered at a rabies vaccine clinic in Rock County.
- Through a grant from the Dean Foods Foundation, The Dairyland Initiative expanded free access to its online resources to dairy farmers and extension agents across the country.

More at **www.vetmed.wisc.edu/news**

Dr. Susan Schaefer demonstrates how to use a laparoscope at the School of Veterinary Medicine/ UW Veterinary Care Open House in April 2013.



A wall of friendly notes from faculty, staff, and students greets the incoming class in one of the school's lecture halls. *Photo: Jeff Miller*

FUNDING THE FUTURE

The University of Wisconsin-Madison campus has increased the School of Veterinary Medicine's base budget by $800,000 in 2013-14 and an additional $950,000 in 2014-15. This enhanced funding will enable the school to implement many of the initiatives designed to achieve the strategic priorities identified in the new strategic plan. This funding increase helped the school hire seven additional faculty who will make important contributions to teaching, research, and clinical service.

Even with this success, your contributions are hugely important. Gifts to the school's general (annual) fund can make the largest impact. They can be used to leverage additional resources, respond to emerging needs, and target the school's and hospital's strategic priorities. If you want to make a difference in animal health, please consider a gift. While gifts to the school's annual fund are a priority, targeted gifts are also welcome and appreciated.

For more information on giving, contact:

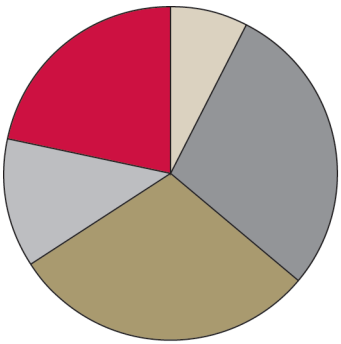
Colin Nemeth, colin.nemeth@supportuw.org, 608-263-7594

Heidi Kramer, heidi.kramer@supportuw.org, 608-890-1230

Learn more at **www.vetmed.wisc.edu/giving**

EXPENDITURES BY SOURCE

(in millions)

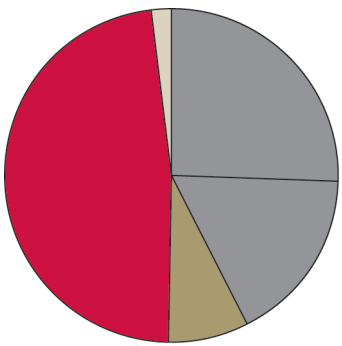


* The SVM raised nearly $4.4 million in expendable and endowed gifts in FY 2012-13

** State appropriations (less estimated tuition and fees)

EXPENDITURES BY PURPOSE

(in millions)



* Student services, public service, and academic support

** Primarily research grants and contracts

AWARDS AND HONORS Highlights

This is not a comprehensive list of awards and honors. It is a representative sample from the 2012-13 fiscal year (July 1, 2012 - June 30, 2013).

Faculty and Staff

Sabrina Brounts, Grayson-Jockey Club Research Foundation Elastikon™ Equine Research Award

Daryl Buss, Wisconsin Veterinary Medical Association Presidential Award, Wisconsin Farm Bureau Federation Distinguished Service to Agriculture Award

Ian Duncan, Sir William Lee Weipers Professor of Veterinary Medicine (Wisconsin Alumni Foundation named professorship)

Yoshihiro Kawaoka, elected to the National Academy of Sciences

Sheila McGuirk, World Dairy Expo Industry Person of the Year

Peter Muir, Chancellor's Distinguished Teaching Award

Christopher Snyder, Wisconsin Veterinary Medical Association Meritorious Service Award

Karen Young, American Society for Veterinary Clinical Pathology Educator Award

Students

Samantha McGill (Class of 2014), Association of American Veterinary Medical Colleges Patricia M. Lowrie Diversity Leader Scholarship, Western Veterinary Conference Dr. Jack Walther Leadership Award

UW Bovine Club members Chelsea Holschbach, Megan Foy, Dan Haeflinger, Brittany Kern, and Chelsea Crawford each earned rare, historic perfect scores in the *Hoard's Dairyman* Cow Judging Contest

Michelle Verant, Wildlife Disease Association Graduate Student Scholarship Award

Other

International Crane Foundation (partner organization), Community-University Parternship Award

BOARD OF VISITORS

John Baumann

Cheryl Brickman

Shawn M. Cavanaugh

Debbie Cervenka

Tim Connor

Margo Edl

Steve Erickson, DVM 1987

Pat Farrell, MS 1983, DVM 1987

Evelyn Fryer

Peter Hanson, MS 1994, PhD 1997

Janet Hoehnen

Diane Larsen, DVM 1990, PhD 1999

Steve Larson

Jeff Neuenschwander

Esther Olson

Jill Pelisek

Janet Raddatz

Tom Torhorst

Morrie Waud

Sandy Yanke

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