Dr. Saville Serving as Interim Chair

William J. A. Saville, DVM, PhD, Diplomate ACVIM, (Associate Professor and Extension Veterinarian, Epidemiology & Public Health) is currently serving as Interim Chair of the Department of Veterinary Preventive Medicine. He has been a faculty member in the Department since 1998. Prior to joining the Department, he was a Resident for Equine Medicine in the OSU Veterinary Teaching Hospital and before that he was in private practice for 15 years in Alberta, Canada. Much of his research involves EPM and Sarcocystis neurona. His Extension work involves areas of public health outreach including Animal Disease Surveillance, the Applied Field Epidemiology Program, and the West Nile Virus Workgroup.

Welcome Dr. Wondwossen Gebreyes

We are pleased to welcome Wondwossen Gebreyes, DVM, PhD, Diplomate ACVPM, as an Associate Professor in the Department of Veterinary Preventive Medicine.
Dr. Gebreyes received his DVM degree in 1990 from Addis Ababa University in Debrezeit, Ethiopia. Following graduation he spent four years as a Field Veterinarian for the Department of Agriculture and four years as the Head Veterinarian at the Southern region Veterinary Department in Ethiopia. In 2001, he received his PhD in the Comparative Biomedical Sciences (CBS) Program in the Department of Population Health and Pathobiology at North Carolina State University. Prior to arriving at OSU, Dr. Gebreyes was an Assistant Professor of Food Safety and Molecular Epidemiology at North Carolina State University.

Dr. Gebreyes has both research (two-thirds) and teaching (one-third) responsibilities in the Department. He is currently in the process of creating the Infectious Diseases Molecular Epidemiology and Detection Laboratory (IDMEDL). Research in his laboratory will focus on the molecular epidemiology of foodborne and other zoonotic pathogens, the molecular characterization of antimicrobial resistance, as well as the development of rapid and sensitive detection methods. The laboratory will also offer subtyping/detection services. Some of the capabilities of IDMEDL will include DNA fingerprinting, DNA sequencing, Pyrosequencing, Detection, Reverse Transcriptase PCR, and Microarray detection.

He is married to Kidest Yismaru. They have two children, Maraki (4) and Meba (2). Dr. Gebreyes can be reached at 614-292-9559 or gebreyes.1@osu.edu

Ohio Department of Rehabilitation and Correction Partnership - Dairy

For over sixty years, OSU’s College of Veterinary Medicine has cooperated with the Ohio Department of Rehabilitation and Correction (ODRC) in maintaining the health and welfare of livestock on the ODRC farms. In 1989, the Department of Veterinary Preventive Medicine entered into a contract with ODRC to provide individual animal care, production medicine services, and management advice to ODRC’s ten farms.

The cooperative efforts between OSU and ODRC have proven beneficial to
both. ODRC’s goals include improving the efficiency of farm production, safeguarding the health and promoting humane care for animals within their system, and promoting and protecting the health of the inmates who consume the food produced in the system. OSU’s mission is to develop an integrated program of service to the ODRC farms that can provide field experience for teaching veterinary students and research opportunities for faculty. Fulfilling these missions will help the state’s agricultural community benefit from controlled study and operation of the farms.

Dr. Richard Meiring has primary responsibility for the five dairy herds in the ODRC system. The five dairy farms provide milk to the department’s milk processing plant located at the Orient, OH facility. This milk is then available to all inmates in the ODRC system. From June 2005 through May 2006, the farms produced almost 1.5 million gallons of milk for ODRC’s inmates. Bull calves and market cows from the dairy operations enter the ODRC’s beef production system.

There are over 700 adult cows on the five farms. Like private dairy operations, the ODRC farms are managed to produce a safe and wholesome product in an efficient, cost effective manner. Food safety and control of potentially zoonotic diseases are especially important considerations to both OSU and ODRC personnel.

Both ODRC officers and inmates participate in the daily feeding, care, and milking of the cows. OSU veterinarians provide primary health care as well as assisting the dairy managers with reproductive management, nutrition, disease control, biosecurity, and animal welfare.

The current goal is to increase milk production by increasing cow numbers, remodeling existing facilities, the construction of a new 300-cow free stall barn at the London Correctional Institution, and improving production practices. In addition, the Department has cooperated with faculty in the Department of Food Science and Technology, College of Food, Agricultural and Environmental Sciences to improve the efficiency of the milk processing plant. Together, OSU and ODRC provide a strong partnership that benefits Ohio.

Richard Meiring, DVM, Diplomate ACVPM, joined the Department in 1998 as a clinician with the OSU Large Animal Services in Marysville. He relocated to Columbus in December, 2005 to serve as a Clinical Assistant Professor and provide service to the ODRC farm and food system. Prior to joining OSU, Dr. Meiring was in private practice in Fort Recovery.
Emerging infectious diseases, bioterrorism, and now high pathogenic avian influenza virus; as the concern over outbreaks of zoonotic disease grows so does surveillance become more of a core veterinary activity. However, current disease surveillance in animals is limited in the ability to detect such diseases. Researchers in the Department of Veterinary Preventive Medicine are working to change this by adapting methods used by recently developed human systems.

Dr. William Saville, Interim Chair, Associate Professor, and Extension Veterinarian, along with doctoral candidate Loren Shaffer are exploring ways that diagnostic test orders and clinic visits might help to detect outbreaks of disease earlier than through reports from providers. “One of the challenges for surveillance of these types of disease,” Saville points out, “is the non-specific way in which they present. Many of these diseases may be mistaken by the attending provider as a more common affliction with similar signs and symptoms.” Saville and Shaffer think that by grouping cases based on symptom category instead of differential diagnosis that increased counts of an outbreak will be more apparent, leading to earlier identification. Earlier outbreak identification can then provide practitioners with valuable information that they can use to diagnose patients quicker and limit the impact of the outbreak.

Funded in part by the Ohio Department of Health using federal grant money, project partners include IDEXX Laboratories, Inc. and The Ohio State University Veterinary Teaching Hospital. These partners transfer records automatically to a server where they are separated into categories and analyzed for unexpected increases in counts. Shaffer explains, “Using data that has already been collected and transferring it automatically greatly reduces the burden on the providers that would come from a manual reporting system.” Shaffer went on to point out other advantages of this type of system include the timeliness and completeness of the
reports. Since records contain information preceding test results or final diagnosis, they are received much sooner than they would if this information was required. Less information being required then increases the opportunity for the records to contain all that is required for analysis.

The system being developed by Saville and Shaffer may also serve to assist public health authorities by alerting them sooner of outbreaks of disease that could also affect people. Earlier recognition of the presence of an outbreak of zoonotic disease in an area could provide them with valuable time to implement intervention strategies and limit the spread of disease among people. Such an approach to disease control, often referred to as a “One Medicine Approach,” was the theme to a recent conference coordinated by the Department of Veterinary Medicine. Veterinarians, public health officials, and students of both disciplines from around Ohio are included in those who attended the conference. “We have found instances examining these data where increased occurrence of certain pathogens in animals precedes outbreaks in humans of the same disease in the same geographic area,” said Saville who went on to comment, “We’re hopeful that such a system will aid veterinarians by providing information they did not have before about disease events in the area they service. We’re just as hopeful that this same information could be used by those providing medical care to people.”

Shaffer will travel to Baltimore, Maryland this October where he will present the initial findings of this research at the National Syndromic Surveillance Conference.
The Orrville Veterinary Clinic, Inc. is a six doctor mixed animal practice located in Wayne County, the heart of Ohio’s dairy country. This practice has been incorporated for over 50 years and currently utilizes a 6,000 square foot Veterinary Economics award winning small animal clinic and a new 12,000 square foot facility that shares space with The Orrville Pet Spa and Resort, a premier boarding, grooming, and day-care facility for small animals that opened in November, 2004. The facilities feature modern haul-in surgery rooms for both bovine and equine patients as well as in-house laboratory, radiography, ultrasonography, and a high frequency radio wave surgery machine. The practice services a wide variety of clientele, from small Amish herds to some of Ohio’s largest dairy herds, draft and pleasure horses and ponies, small ruminants, and companion animals as well. Revenues in the practice are generated primarily from dairy (50%), equine (20%) and companion animals (30%). All six doctors in the practice are graduates of The Ohio State University College of Veterinary Medicine and include Drs. Paul Masters (’73), Greg Roadruck (’80), Mel Wenger (’81), Bill Yost (’82), Judy Jackwood (’82), and Jeff Fink (’02). Drs. Roadruck, Wenger, and Yost are currently enrolled in the Ohio Dairy Health Management Certificate Program offered by the Veterinary Extension Unit within the Department of Veterinary Preventive Medicine.

Students who participate in selective assignments at The Orrville Veterinary Clinic will spend time with either Dr. Roadruck or Dr. Yost.
Because of the different sizes and types of dairies the practice services, a wide variety of both ambulatory and production dairy medicine will be experienced. Students are exposed to the workings of a private practice where economics play a role in every decision a farmer makes. Depending on the day’s case load, students may be involved in writing protocols, records analysis, reproductive exams and recommendations, obstetrics, Johne’s risk assessments, lameness exams, breeding soundness exams, surgeries, mastitis consultations, and any number of medical and surgical problems that today’s dairymen face. An effort is made to discuss economics on the dairy farm not only as it relates to individual animals but also in regard to management decisions like whether or not to use rBST or timed AI protocols. Students may also be involved in some lively conversations about the interest in organically produced agricultural products, pasteurization, animal welfare, and the veterinarian’s role in educating consumers about what really happens “down on the farm”.

The Department of Veterinary Preventive Medicine employs adjunct faculty whose experience, credentials, and teaching capabilities add value to the education of veterinary students. Fourth year students taking part in the veterinary preventive medicine clinical rotation have the option to visit an adjunct practice in-place of one of the pre-planned selective experiences.

**Laboratory Animal Training Residency Program**

The Laboratory Animal Training residency program is up and running again at OSU! We currently have three veterinarians enrolled in the two-year program. The training program is a shared effort with Veterinary Preventive Medicine, Veterinary Biosciences, and ULAR (University Laboratory Animal Resources). Completion of the program allows the trainees to sit for the ACLAM board examination after the two years training. During the program, the trainee completes one year of clinical training and one year of research culminating in a first author publication. Erin Yu (OSU 2006) and Janine Davenport (Tuskegee 2003) are currently completing their first clinical year. They are also assisting in the VM 700.08 laboratory animal wet lab (Veterinary Preventive Medicine Rotation) as well as other biomedical animal handling classes across campus.
Graduated Summer Quarter, 2006:

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<th>NAME</th>
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<tr>
<td>Monica Kukielka</td>
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<td>Valerie Bergdall</td>
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New Students:

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<tr>
<th>NAME</th>
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<tr>
<td>Won Hee Cha</td>
<td>MS</td>
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<td>Maria Murgia</td>
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<td>Dr. Linda Saif</td>
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<td>Kari Ann Newman</td>
<td>MS</td>
<td>Dr. Päivi Rajala-Schultz</td>
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<td>Jacqueline Nolting</td>
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<td>Prapas Patchanee, DVM</td>
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<td>William Walker, DVM</td>
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<td>Leyi Wang</td>
<td>PhD</td>
<td>Chang-Won Lee</td>
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The Graduate Student Orientation was held on Monday, September 18th. Drs. Mo Saif and Linda Saif will host the annual Department Picnic at their Big Red Barn in Wooster on October 7th.
The Veterinary Public Health specialization towards the Master of Public Health program is pleased to inform you that we have received over 55 applications for the upcoming academic year. We were able to accept 26 of the best qualified students. The average GPA of the incoming class is 3.31. The cohort of 2007 is very diverse, as the Veterinary Public Health field includes: five DVMs and graduate students from a variety of academic backgrounds including zoology, microbiology, animal sciences, medicine, wildlife biology, and entomology. Of these graduate students at least 50% are planning to pursue other professional degrees following their MPH-VPH such as a DVM or MD. This group of individuals will be a great addition to this interdisciplinary program, which is a partnership between the School of Public Health and the College of Veterinary Medicine. We hope that you will join us in welcoming them as you did with our last class.

We would like to also publicly thank the different agencies and organizations such as the Ohio Department of Health-Bureau of Infectious Disease Control, Ohio Department of Health-Bureau of Health Surveillance, the Ohio Department of Agriculture-Animal Disease Diagnostic Laboratory, Ohio Department of Agriculture-Consumer Analytical Lab, Ohio Department of Agriculture-Meat Inspection, Columbus Health Department, United States Geological Service, and United States Department of Agriculture among others; which have received our students of the 2006 Cohort during their Practice Placement and/or Culminating Projects. We are especially thankful to the professional preceptors, who have worked hard to help us develop future veterinary public health professionals.

While we are delighted to have so many students, we also know that finding practice placement and culminating experiences for all these students poses a challenge for our program. Therefore, if you have any suggestions or ideas for these requirements, or would like to become involved in this program, please let us know. You can e-mail us at mph-vph@osu.edu or contact Dr. Hoet directly at (614) 292-0648.
William L. Ingalls, DVM, MS – was inducted into the Ohio Agriculture Hall of Fame on August 11, 2006 at the Awards Program held during the Ohio State Fair. Enshrinement in the Ohio Agricultural Hall of Fame is Ohio's highest recognition of an individual who has made outstanding contributions to the agricultural industry. Each year four prominent agricultural leaders are honored and inducted into the hall of fame for their superior service, dedication, leadership, and plentiful contributions to agriculture. Dr. Ingalls is only the fourth veterinarian to be inducted.

Dr. Ingalls initially became a faculty member of The Ohio State University College of Veterinary Medicine in 1947. He then moved into private industry where he served agriculture as vice-president of the Columbus Serum Company from 1951-1974. He served as professor and Extension Veterinarian (Swine) in the Department of Veterinary Preventive Medicine from 1974 until he officially retired in 1988. Since his retirement he has maintained an office in the Department and has remained involved in teaching and Extension activities.

During his career, Dr. Ingalls also worked in Ohio's state diagnostic laboratory in Reynoldsburg, served as assistant state pathologist with the Ohio Department of Agriculture laboratories, and worked as an associate animal pathologist at the Virginia Agriculture Experiment Station.

In addition, Dr. Ingalls has served as vice-president of the AVMA from 1985 to 1987. He served as Health Commissioner in the Pickaway County General Health District from 1988 to 1993. He also served on the Policy Review Committee for the Joint Solid Waste Management District and the Peer Review Committee at the Ohio Department of Health. He has served on the board of directors at the American Association of Extension Veterinarians and as director of the Ohio Extension Professors Association.
David White Research Award

Dr. Thomas Wittum, Professor, has received The David White Research Award to a Meritorious Established Investigator. The goal of this award is to honor and support established and prevailing investigators and to establish a research apprenticeship that feeds on the success of the honored and successful investigator. It was established to honor a successful principal investigator based in the College of Veterinary Medicine and shall reward demonstrated success. Funds received from this award will be used for the hiring of a postdoctoral researcher. This honor is given approximately every one to three years with the aim of increasing the pool of highly qualified candidates for future academic faculty positions in veterinary schools. The award is also intended to foster mentorship and collaboration between established and young aspiring researchers.

Dean’s Award for Creativity in Teaching

Dr. Charles Neer, Clinical Associate Professor, received the 2006 Dean’s Award for Creativity in Teaching. The goal of the award is to motivate risk taking in the implementation of innovative approaches to veterinary medical education. Innovations in the professional education program, in continuing education, and in faculty development are eligible for nomination. The award is not an annual award as such but is given on those occasions when such individuals are identified.

“Milk Them For All Their Worth”

Donald Sanders, DVM, MS, Diplomate ACT – has written a second edition of his book entitled “Milk Them For All Their Worth”. The book will be released in China prior to being available in the U.S.

Dr. Sanders is a Clinical Associate Professor at the OSU Large Animal Services located in Marysville.
New Research Funding
(Since April, 2006)

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<tr>
<th>P.I.</th>
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<td>Development of live influenza vaccine utilizing non-structural gene as a novel target for attenuation.</td>
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<td>Y. Mo Saif, &amp; David Suarez</td>
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CONTACT INFORMATION

We continue to receive feedback and comments from departmental alumni from all over the world. We greatly appreciate this, and would like to hear from more. Please let us know that you are receiving this newsletter and give us an update on yourself.

The Veterinary Preventive Medicine Newsletter is published electronically on a quarterly basis. It is primarily distributed to College faculty, VPM graduate students, departmental alumni, former and retired faculty, and others who have been or are currently associated with the Department.

Please submit e-mail addresses, articles, and comments/suggestions to Jeff Workman, Extension Program Assistant, at workman.45@osu.edu or 614-292-9453.

- For more departmental information please visit our web site: http://www.vet.ohio-state.edu/preventivemedicine.htm
- View past issues in our newsletter archive: http://www.vet.ohio-state.edu/983.htm