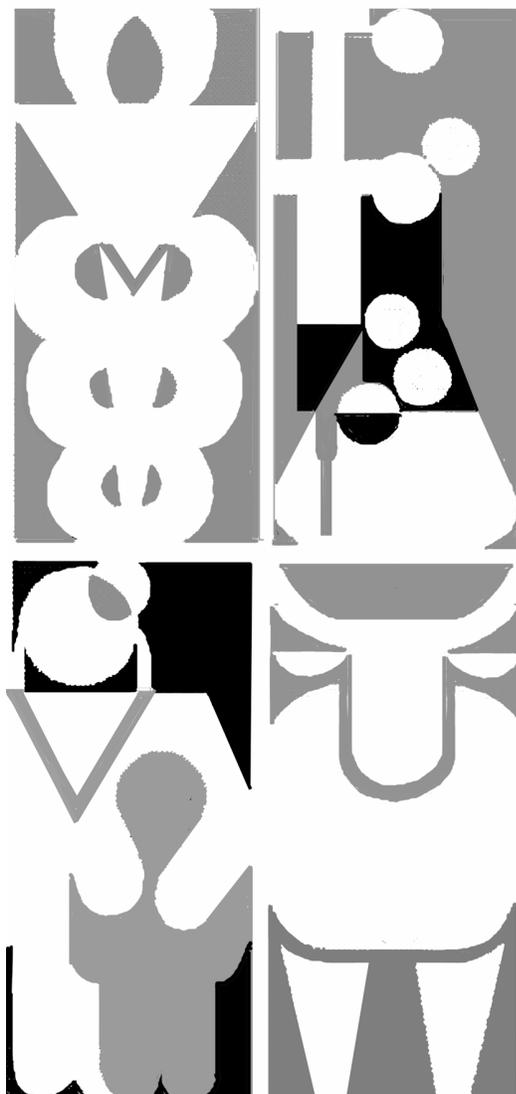


NEWSLETTER



Association for Veterinary Epidemiology and Preventive Medicine

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AVEPM is committed to developing and fostering the academic base for veterinary epidemiology and preventive medicine

Visit the AVEPM Web site at...

<http://www.cvm.uiuc.edu/avepm/>

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ATTACHMENT: 2008 SCHWABE SYMPOSIUM PROGRAM

ASSOCIATION NEWS

2008 Schwabe Award

On behalf of the Association for Veterinary Epidemiology and Preventive Medicine (AVEPM), I am pleased to announce that Dr. David W. Hird, Professor Emeritus from the University of California at Davis, has been selected as the 2008 recipient of the Calvin W. Schwabe Award for Lifetime Achievement in Veterinary Epidemiology and Preventive Medicine.



This award is presented annually by the AVEPM, and previous recipients include Drs. Calvin W. Schwabe, Robert K. Anderson, James H. Steele, S. Wayne Martin, and Clive C. Gay. This award will be presented on December 7, 2008 at the Conference of Research Workers in Animal Diseases (CRWAD) at a special symposium featuring a keynote address delivered by Dr. Hird in addition to presentations from colleagues and protégés. Please see the attachment (at the end of this Newsletter) for a description of the program for this Symposium.

Please plan to attend this special event which will be held from 12:30 p.m. until 5:00 p.m. on Sunday, Dec 7, 2008, at the Chicago Marriott, Downtown Magnificent Mile, Chicago, Illinois.

Please note the for nominations for the 2009 Schwabe Award will be issued very shortly. We encourage you to consider mentors that have been important to your careers, and to nominate them for this prestigious award.

- <http://www.cvm.uiuc.edu/avepm/>
- <http://www.cvmb.colostate.edu/microbiology/crwad/>

FREE LUNCH AT CRWAD! Dec 8, 2008

On behalf of the Association for Veterinary Epidemiology and Preventive Medicine, I am writing to invite all AVEPM members are invited to attend a lunch buffet on Monday, Dec 8, at the upcoming CRWAD meeting in

Chicago. This lunch is sponsored by AVEPM, (your organization!) and will take the place of our regular business meeting.

PLEASE RSVP to <AVEPM.Business@gmail.com> BEFORE NOV 31!

The lunch is open to all AVEPM members that are current in their dues. If you have been putting off joining AVEPM, now is the time, but you need to join before the meeting in order to attend the lunch! If you were previously a member of AVEPM, you will also need to make your membership current in order to attend. Please visit the website <<http://vetmed.illinois.edu/avepm/apply.html>><http://vetmed.illinois.edu/avepm/apply.html> or contact our Secretary/Treasurer, Dr Jim Thorne <<<mailto:avepm@centurytel.net>>avepm@centurytel.net> to join or pay dues.

We are sponsoring this lunch in an effort to get maximal input from AVEPM members on some very important questions. Perhaps the most important of these questions is, "What should our organization do in the next 5-10 years?"

In order to attend, you need to RSVP to <<mailto:AVEPM.Business@gmail.com>>AVEPM.Business@gmail.com before November 31, and you will need a ticket to get in the door! Please send your RSVP to this email address, and I will have a ticket sent to you. PLEASE REMEMBER TO PROVIDE YOUR MAILING ADDRESS! Please allow an extra 2 weeks for tickets to be sent to addresses outside of the U.S.

I look forward to seeing EVERYONE on Dec 8!

Sincerely

Paul Morley
AVEPM President

NEWS & COMMENTARY

ONE HEALTH INITIATIVE: AMERICAN VETERINARY MEDICAL ASSOCIATION STATEMENT

Date: Fri, 8 Aug 2008 16:49:44 -0400 (EDT)
From: ProMED-mail <promed@promed.isid.harvard.edu>
Subject: PRO/AH> One Health Initiative: AVMA statement

Source: Journal of the American Veterinary Medical Association [edited]

[Below is the Veterinary Medicine Today Special Report on the Executive summary of the American Veterinary Medical Association (AVMA) One Health Initiative Task Force (OHITF) report published in the Journal of the AVMA (King LJ, Anderson LR, et al. Vet Med Today: Special Report - Executive summary of the American Veterinary Medical Association One Health Initiative Task Force report JAVMA, 233(2), 15 Jul 2008). The full report is available at <<http://www.avma.org/onehealth/>> - Mod.MPP]

The convergence of people, animals, and our environment has created a new dynamic in which the health of each group is inextricably interconnected. The challenges associated with this dynamic are demanding, profound, and unprecedented. While the demand for animal-based protein is expected to increase by 50 [percent] by 2020

(2), animal populations are under heightened pressure to survive, and further loss of biodiversity is highly probable.

On top of that, of the 1461 diseases now recognized in humans, approximately 60 percent are caused by multi-host pathogens characterized by their movement across species lines (3). And, over the past 3 decades, approximately 75 percent of new emerging human infectious diseases have been zoonotic (4). Our increasing interdependence with animals and their products may well be the single most critical risk factor to our health and well-being with regard to infectious diseases.

There is a growing concern that the world's latest generation could be the 1st in history to experience a reduction in life expectancy and health in general. Yet, veterinary and human medicines are considered separate entities and the obvious links between them frequently ignored. According to the KPMG study "The Current and Future Market for Veterinarians and Veterinary Medicine in the United States," (5) published in May 1999, "our traditional approaches and past requisite skills and levels of knowledge may not be commensurate with the rapid changes and new demands of food animal industries and the shifting requirements needed for the corporate and public opportunities of the future, including public health, biomedical research, and the global food system."

The need for a holistic, collaborative approach -- One strategy to better understand and address the contemporary health issues created by the convergence of human, animal, and environmental domains is the concept of One Health. Although the concept of One Health is not new -- the theory was supported by William Osler and Rudolf Virchow, the Father of Comparative Pathology, and re-articulated in Calvin Schwabe's Veterinary Medicine and Human Health (6) in 1984 -- our increasing interdependence with animals and their products has spurred the human medical and veterinary professions to readdress such an approach. This approach would encourage the collaborative efforts of multiple disciplines working locally, nationally, and globally, to attain optimal health for people, animals, and our environment.

The benefits of One Health

The benefits of a One Health approach include:

- - improving animal and human health globally through collaboration among all the health sciences, especially between the veterinary and human medical professions, to address critical needs;
- - meeting new global challenges head-on through collaboration among multiple professions -- veterinary medicine, human medicine, environmental health, wildlife health, and public health;
- - developing centers of excellence for education and training in specific areas through enhanced collaboration among colleges and schools of veterinary medicine, human medicine, and public health;
- - increasing professional opportunities for veterinarians
- - adding to our scientific knowledge to create innovative programs to improve health.

The One Health Initiative Task Force

On 14 Apr 2007, the AVMA Executive Board took official action to establish a One Health Initiative by approving a recommendation by

then-president Dr Roger K Mahr to establish an OHITF. The purpose of the task force was to study the feasibility of a campaign to facilitate collaboration and cooperation among health science professions, academic institutions, governmental agencies, and industries to help with the assessment, treatment, and prevention of cross-species disease transmission and mutually prevalent, but non-transmitted, human and animal diseases, and medical conditions.

The OHITF, comprising 13 visionary individuals and communicators, was charged by the AVMA Executive Board with the task of defining "One Health," and providing recommendations and strategic actions that would support and expand the concept across the health professions. Just 2 months later, the AMA [American Medical Association] House of Delegates followed suit, with unanimous approval of a resolution in support of One Health.

Partnership is critical to success

The veterinary profession must implement solutions to the critical workforce challenges in collaboration with multiple professions, including public health, human medicine, bio-engineering, animal science, environmental science, and wildlife. By working together, more can be accomplished to improve health worldwide, and the veterinary medical profession has the responsibility to assume a major leadership role in that effort. One Health calls for the collaborative efforts of multiple disciplines working locally, nationally, and globally to attain optimal health for people, animals, and our environment.

OHITF recommendations

The following recommendations, which are not listed in order of priority, were based on the findings of the OHITF both during their meetings, and in the follow-up sessions held by the working groups. While the AVMA and the AMA plan to take a leadership role in this effort, the success of these recommendations will depend heavily on the collaboration of various health science professions, academic institutions, governmental agencies, and private industries.

- - create and fund a One Health Joint Steering Committee to begin the execution of the other recommendations and associated actions;
- - complete a One Health Proposal for Donors as well as a Business Plan and continue the process of engaging potential donors and sponsors;
- - create and implement initial components of a One Health Communication Effort;
- - engage an all-inclusive communications firm to develop and implement a communications plan and coordinate ongoing media relations, public relations, publicity, marketing, and advertising.
- - plan a study on One Health to be conducted by the National Academy of Sciences and secure the necessary funding to underwrite this effort;
- - develop, charter, and form a National One Health Commission (to replace the steering committee) and recruit full-time staff in key positions to support the goals and mission of the commission and complete the recommendations within the full report;
- - appoint a national/global One Health Advisory Team to help support the National One Health Commission and give it direction, counsel, and wisdom;
- - plan and hold a One Health National Summit;
- - convene several panels and a national meeting to establish a national research agenda for One Health;

- - work toward the inclusion of key One Health outcomes for listing in the strategies for Healthy People 2020 and Healthy Animals 2010;
- - inform, engage, and solicit the support of medical, veterinary medical, and public health students and their respective organizations;
- - create a guiding coalition of liaisons, champions, and key supporters to promote the One Health concept.

Call to action

We now stand at the precipice of health care transformation where disease prevention and health promotion in people, animals, and our environment have become a critical strategic need. The most pressing need for a transformation of this magnitude is almost always vision and leadership. The OHITF recommendations can serve as an action plan to guide individuals and professions during the process of change. But, while the AVMA and AMA are eager and willing to take the lead on this effort, we cannot succeed without the support of others. Decisions made today impact events of tomorrow. We live in a world in which the difference between what can be imagined and what can be accomplished has never been smaller. Veterinary medicine is in a unique position. Veterinarians are well grounded in population health, comparative medicine, and preventive medicine. The profession has the potential to help lead the efforts of One Health. However, this is not a given, and a reluctance by our profession or by the other health sciences to take this step will, without question, be a lost opportunity that will be picked up by other groups.

The responsibility sits clearly on our shoulders. The human medical profession is faced with the same dilemma -- it also must decide on its future role in One Health. Every profession has its defining moments -- special points in time when talented individuals work cooperatively to influence the course of events for generations to come. For veterinary medicine and the other health sciences, that time is now.

Our recommendations will only be fulfilled if action is taken, resources identified and committed, and leadership supported. We urge you to join us in supporting the One Health Initiative.

References

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1. Carson R: Silent Spring. Greenwich, Conn: Fawcett, 1962.
 2. Delgado C, Rosegrant M, Steinfeld H, et al: Livestock to 2020: The Next Food Revolution. Food, Agriculture, and the Environment discussion paper 28. Washington, DC: International Food Policy Research Institute, 1999 [available at <<http://www.fao.org/ag/againfo/resources/documents/lvst2020/20201.pdf>>].
 3. Torrey EF, Yolken RH: Beasts of The Earth. New Brunswick, NJ: Rutgers University Press, 2005.
 4. Taylor LH, Latham SM, Woolhouse ME: Risk factors for human disease emergence. Philos Trans R Soc Lond B Biol Sci 2001; 356: 983-9 [full article available at <<http://www.pubmedcentral.nih.gov/picrender.fcgi?artid=1088493&blobtype=pdf>>].
 5. Brown JP, Silverman JD: The current and future market for veterinarians and veterinary medical services in the United States: executive summary. J Am Vet Med Assoc 1999; 215: 161-183 [available at <<http://www.aavmc.org/documents/es199905.htm>>].
 6. Schwabe CW: Veterinary medicine and human health. Baltimore: The Williams & Wilkins Co, 1964.

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Communicated by:
Bruce Kaplan
<bkapdvm@verizon.net>
via the One Health Newsletter

[We at the ProMED-mail family strongly support the "One Health" concept and many of the ProMED-mail moderators were early signatures on this initiative. For those of our subscribers who receive all ProMED-mail postings, our support of this concept is evident -- ProMED-mail covers emerging and re-emerging infectious diseases and toxic exposures of interest to the plant, animal, and human health sectors. Plant diseases impact on food security and the economy, which impacts on animal and human health; animal diseases impact on human health indirectly through food security and directly through zoonotic diseases and the economy; and human diseases can also impact on animals directly through a reverse zoonosis, and indirectly through neglect. And as seen in the scientific literature, more than 70 percent of newly identified human diseases in the past 25-40 years have been zoonotic diseases where a species jump has occurred.

We are grateful to Dr Bruce Kaplan for sharing the abstract and article above with us, and feel strongly that we should share this with the greater ProMED-mail community worldwide.

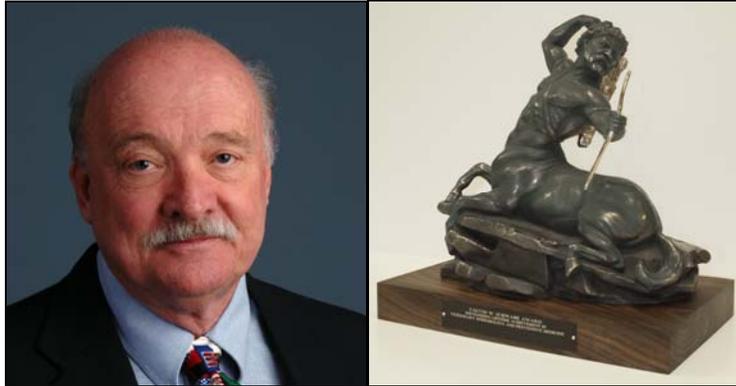
According to the most recent One Health newsletter: "The "One Health" e-mail distribution list now totals 472 individuals in 23 countries including: United States, Australia, Bangladesh, Belgium, Bosnia and Herzegovina, Brazil, Canada, China, Costa Rica, Croatia, France, Germany, India, Israel, The Netherlands, Nigeria, Puerto Rico, South Africa, Thailand, Turkey, United Kingdom, Uruguay, and Switzerland. The Supporter List totals 317. Any allied health scientist, physician, osteopath, or veterinarian may be added to one and/or both lists by contacting us at <bkapdvm@verizon.net>. Please include your curriculum vitae or brief biography, title, degree(s), affiliation, and address consistent with those currently acknowledged as "One Health/One Medicine" supporters. There are no obligations attached to joining this group and you may have your name removed at any time upon request."

Additional references not listed above:

1. Daszak P, Tabor GM, Kilpatrick AM, Epstein J, Plowright R: Conservation medicine and a new agenda for emerging diseases. *Ann N Y Acad Sci.* 2004 Oct; 1026: 1-11. (abstract available at <<http://www.annalsnyas.org/cgi/content/abstract/1026/1/1>>).
2. Jones KE, Patel NG, Levy MA, Storeygard A, Balk D, Gittleman JL, Daszak P: Global trends in emerging infectious diseases. *Nature.* 21 Feb 2008; 451(7181): 990-3 (full article available at <<http://www.nature.com/nature/journal/v451/n7181/pdf/nature06536.pdf>>).
3. Greger M: The human/animal interface: emergence and resurgence of zoonotic infectious diseases. *Crit Rev Microbiol.* 2007; 33(4): 243-99 (abstract available at <http://www.ncbi.nlm.nih.gov/pubmed/18033595?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_R esultsPanel.Pubmed_RVDocSum>).
4. Daszak P, Epstein JH, Kilpatrick AM, Aguirre AA, Karesh WB, Cunningham AA: Collaborative research approaches to the role of wildlife in zoonotic disease emergence. *Curr Top Microbiol Immunol.*

- 2007;315:463-75 (abstract available at <http://www.ncbi.nlm.nih.gov/pubmed/17848075?ordinalpos=4&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum>).
5. Zinsstag J, Schelling E, Roth F, Bonfoh B, de Savigny D, Tanner M: Human benefits of animal interventions for zoonosis control. *Emerg Infect Dis.* 2007 Apr; 13(4): 527-31 (full article available at <<http://www.cdc.gov/eid/content/13/4/pdfs/527.pdf>>).
6. Mumford EL, Kihm U: Integrated risk reduction along the food chain. *Ann N Y Acad Sci.* 2006 Oct; 1081: 147-52 (abstract available at <<http://www.annalsnyas.org/cgi/content/abstract/1081/1/147>>).
7. Kahn LH: Confronting zoonoses, linking human and veterinary medicine. *Emerg Infect Dis.* 2006 Apr; 12(4): 556-61 (full article available at <<http://www.cdc.gov/ncidod/eid/vol12no04/pdfs/05-0956.pdf>>).
8. Wong SS, Yuen KY: Zoonotic potential of emerging animal diseases. *BMJ.* 26 Nov 2005; 331(7527):1260 (full article available at <<http://www.bmj.com/cgi/content/full/331/7527/1260>>).
9. Meslin FX, Stoehr K, Heymann D: Public health implications of emerging zoonoses. *Rev Sci Tech.* 2000 Apr; 19(1): 310-7 (abstract available at <http://www.ncbi.nlm.nih.gov/pubmed/11189723?ordinalpos=21&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum>).
- - Mod.MPP]

**“A Global Perspective for Education in Veterinary Epidemiology and One Medicine”
– A Symposium Honoring the Professional Legacy of Dr. David W. Hird –**



The Association for Veterinary Epidemiology and Preventive Medicine (AVEPM) is pleased to announce the program for the 2008 Schwabe Symposium honoring the lifetime professional achievements of Dr. David Hird. This symposium will be held in Chicago on December 7, 2008 at the Chicago Marriott – Downtown Magnificent Mile, just prior to the opening of the Conference of Research Workers in Animal Diseases. No registration or fees are required to attend. Please make plans to join us for this important event. This Symposium is once again generously supported by Bayer Animal Health.

12:30 pm **Introductory Remarks**

12:35 pm **Vision for a Transdisciplinary "One Medicine" Approach to Global Health Education.**
Patricia A. Conrad, DVM, PhD, Professor of Parasitology, University of California, Davis.

1:15 pm **Education of Global Veterinarians.** Jorge A. Hernandez, DVM, MPVM, PhD, Professor of Epidemiology, University of Florida.

1:55 pm **The Role of Veterinary Epidemiology in Combating Infectious Animal Diseases on a Global Scale: Impact of Training and Outreach Programs.** M.D. Salman, DVM, MPVM, Ph.D, Professor of Epidemiology, Animal Population Health Institute, Colorado State University, Fort Collins.

2:35 pm Break and Refreshments

3:05 pm **Veterinary Epidemiology in Latin America.** Santiago Urcelay Vicente, DVM, MPH, MPVM. Professor of Epidemiology, University of Chile.

Keynote Address:

3:45 pm **Global Thinking and Global Education: Philosophy, Programs, Perspectives.**
David W. Hird, DVM, MPVM, PhD. Professor Emeritus of Epidemiology, University of California, Davis

4:40 pm **Panel Discussion**

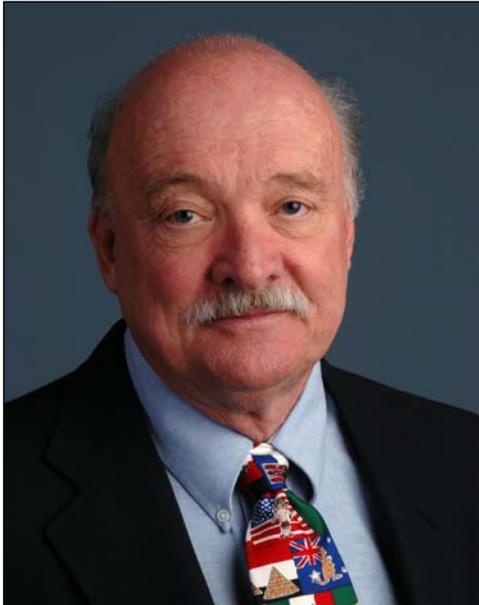
5:00 pm Adjourn

6:00-8:00 pm CRWAD Researchers Reception and Poster Viewing

For more information about the CRWAD meeting please visit the organization web page:
<http://www.cvmbs.colostate.edu/microbiology/crwad/>

The Calvin W. Schwabe Award is presented annually by the AVEPM to honor lifetime achievement in veterinary epidemiology and preventive medicine. The 2008 honoree is:

David W. Hird, DVM, MPVM, PhD



Dr. David Hird is Professor Emeritus at the University of California at Davis having served on that faculty for 28 years (1980-2008). Throughout his distinguished career he has been widely regarded as a preeminent educator and leader in the fields of veterinary epidemiology and preventive medicine.

Dr. Hird earned his baccalaureate degree from Stanford University and his DVM from the University of California, Davis. His interest in international work and global veterinary medicine began early in his career. He spent the first 4 years as a veterinarian working overseas at the University of Chile as a large animal ambulatory clinician, with the United Nations (FAO) in Venezuela working with beef cattle, and in Australia working as a companion animal and dairy veterinarian. Dr. Hird returned to the UC Davis, where he completed the Master of Preventive Veterinary Medicine (MPVM) degree. He then expanded his career experiences working as the County Veterinarian in Imperial County, California, where much of the work involved public health issues of the California-Mexico border, such as rabies and tuberculosis. He also directed the animal control program and instituted a feedlot health monitoring program. Dr. Hird continued his training at the University Minnesota where he completed his PhD in veterinary microbiology and epidemiology in 1980 under the guidance of Dr. Ashley Robinson. He joined the faculty of the School of Veterinary Medicine at UC Davis in 1980 where he worked until his retirement in 2008. His areas of emphasis while working at Davis included quantitative epidemiology, livestock health and productivity, animal health surveillance, and education in epidemiology and international veterinary medicine.

Dr. Hird is an author on more than 150 manuscripts in peer-reviewed publications and conference proceedings. He is a Diplomate in the American College of Veterinary Preventive Medicine and a Fellow in the American College of Epidemiology. He has been a Fulbright Scholar, and has served as a consultant to the USDA and in several South American countries on disease surveillance and control programs for livestock. Dr. Hird is the recipient of several teaching awards from both students and faculty at UC Davis, and was also a principal organizer for the Tenth Symposium of the International Society for Veterinary Epidemiology and Economics (ISVEE) in Viña del Mar, Chile.

Dr. Hird may be best known as a consummate teacher and leader in education related to veterinary epidemiology, public health, and one medicine. He is internationally known for his leadership in of several programs at the UC Davis School of Veterinary Medicine. These include his work as the founding Director of the Office of International Programs, Director of the MPVM Program, and Chair of the UC Davis Graduate Group in Epidemiology.

For more information about AVEPM, the Schwabe Symposium or CRWAD, please visit the following web pages:

- <http://www.cvm.uiuc.edu/avepm/>
- <http://www.cvmb.colostate.edu/microbiology/crwad/>

“A Global Perspective for Education in Veterinary Epidemiology and One Medicine”
– A Symposium Honoring the Professional Legacy of Dr. David W. Hird –

Description of Presentations:

Vision for a Transdisciplinary "One Medicine" Approach to Global Health Education. Patricia A. Conrad, DVM, PhD, Professor of Parasitology, University of California, Davis.

Through his scholarly contributions and teaching, Calvin Schwabe was an articulate advocate for a “One Medicine” approach, with veterinary and medical physicians and scientists working together to tackle the problems of global health. His vision is more relevant and appreciated today with increasing recognition of the importance of emerging zoonotic diseases and the public health challenges of underserved populations throughout the world. In this talk, we will explore global health education: What is it? Why is it important? What is new? How does “global health” differ from “public health”? We will explore how Dr. Schwabe’s proposed “One Medicine” can be expanded into a vision of “One Health” which considers the health of the environment and ecosystems as well as their human and animal inhabitants. Examples discussed in this talk will include such programs as the Hali Project in Tanzania which focuses on water scarcity and quality issues at the human-wildlife-domestic animal interface, the Avian Influenza “Flu School” and Newcastle immunization of chickens program, the Envirovet Program and the challenges of Mycobacterium bovis tuberculosis in Africa.

Education of Global Veterinarians. Jorge A. Hernandez, DVM, MPVM, PhD, Professor of Epidemiology, University of Florida.

This presentation describes efforts at the University of Florida (UF) on internationalization of the curriculum (2003-2008). Veterinary students at UF with interest in international exposure have the opportunity to participate in structured programs at 3 levels. In level 1 (on campus), students can sign-up for credit in an elective seminar series in international veterinary medicine offered each year. In level 2 (abroad), students participate in structured study abroad programs for 1-8 weeks under the supervision of UF faculty and in collaboration with international scholars. In level 3 (on campus and abroad), students can enroll in a certificate program in international veterinary medicine, a 15-credit program parallel to the veterinary curriculum. Students enrolled in the certificate program must complete a 4-week externship (education or research project) in a foreign country. This presentation will include background information on globalization, the academic and administrative structure of our international programs, course evaluation data, results of student education-research projects (i.e., FMD in Ecuador, TB in Chile, rabies and animal control, GI parasites in dogs and public health), as well as discussion of the need to prepare veterinary students to work in interdisciplinary medical teams in an international setting.

The Role of Veterinary Epidemiology in Combating Infectious Animal Diseases on a Global Scale: Impact of Training and Outreach Programs. M.D. Salman, DVM, MPVM, Ph.D, Professor of Epidemiology, Animal Population Health Institute, Colorado State University, Fort Collins.

This presentation will focus on the value and role of veterinary epidemiology in combating infectious animal diseases on a global scale, emphasizing the value of training and outreach programs. Three main topics will be addressed: 1) veterinary epidemiology and its relation to the general discipline of epidemiology, 2) global aspects of infectious animal diseases and their impact on trade and public health, and 3) training in veterinary epidemiology and its impact on constraining the spread of infectious diseases.

Veterinary Epidemiology in Latin America. Santiago Urcelay Vicente, DVM, MPH, MPVM. Professor of Epidemiology, University of Chile.

This presentation describes the influence of Epidemiology on the veterinary profession in Latin America, including training of veterinarians. Curricular development and training of Epidemiology in Latin American Veterinary Sciences programs are described. The ISVEE conference in Chile and subsequent conferences have highlighted the development and application of epidemiology in routine government veterinary activities and in research. Activities and the profile of a Professor of Epidemiology in Latin America will be discussed.

Keynote Address:

Global Thinking and Global Education: Philosophy, Programs, Perspectives. David W. Hird, DVM, MPVM, PhD. Professor Emeritus of Epidemiology, University of California, Davis

Many epidemiologists credit international experience as the primary shaping force of their careers. Young epidemiologists, including new faculty, should be informed about the “whys” of international work, as well as the “hows”. Working internationally provides an opportunity to practice preventive medicine in a new context, and consequently expands imagination and ingenuity.