

NAU-UC Davis Graduate Education Conference on One Health

University of California, Davis
January 20 – February 6, 2015

Sponsored by
Nanjing Agricultural University

Hosted by
Western Institute for Food Safety & Security, UC Davis



Conference Description

The Western Institute for Food Safety and Security is hosting the NAU-UC Davis Graduate Education Conference on One Health at the University of California, Davis campus for Nanjing Agricultural University (NAU) undergraduate students who have an interest in graduate programs at UC Davis as part of the NAU-UC Davis One Health Center for Food Safety joint program. The Conference will take place between January 20th and February 6th, 2015.

The School of Veterinary Medicine (SVM), College of Agricultural and Environmental Sciences (CAES) and the Western Institute for Food Safety and Security (WIFSS) have formed an educational exchange program with Nanjing Agricultural University (NAU) directed at establishing a One Health Center for Food Safety at NAU. Research at the Center will focus on understanding food safety and water quality issues all across Asia. Corresponding educational programs will promote progress toward safer, better quality food systems in China. The vision of the One Health Center for Food Safety at NAU is to house a multidisciplinary faculty working on a wide array of projects related to food and water safety using a One Health approach. The primary focus of the One Health Center for Food Safety is to build capacity for education and research expertise at NAU relative to One Health for Asia and globally.

Special thanks to our speakers and graduate student panel, and special thanks to the many people who gave so generously of their time to help this be a successful conference, including:

- Bennie Osburn, Director of Outreach and Training, WIFSS
- Chris Brunner, Conference Coordinator, WIFSS
- Heather Johnson, Educational Specialist, WIFSS
- Mandy Arens, Program Manager, Outreach and Training, WIFSS
- John Angelos, Associate Professor of Veterinary Medicine, WIFSS
- Nicole Nisson, Program and Financial Assistant, WIFSS

Thank you also to Jenny Chen in the College of Agricultural and Environmental Sciences, who is always interested in international education, because she herself benefited from it, and likes to help out in any way she can to students from China who are interested in coming to UCD to experience this great university.

CONFERENCE PROGRAM

Week One – Introduction to UC Davis & California

TUESDAY – JANUARY 20 – Welcome and Campus Orientation

1041 Gladys Valley Hall

8:30 – 8:45 am	Registration	
8:45 – 9:30 am	Integrated One Health Approaches to Food Safety	Rob Atwill, WIFSS
9:30 – 10:00 am	Walk to Welcome Center	
10:00 – 11:00 am	Walking Tour of Campus	
11:00 – 2:00 pm	LUNCH and Free Time on Campus	
2:00 – 3:00 pm	Opportunities in the New Era of One Health for Food Safety	Bennie Osburn, WIFSS
3:00 – 3:30 pm	BREAK	
3:30 – 5:00 pm	Graduate Student Panel Discussion	Graduate Students: Wendy Chen, Chengming Jiang, Yuqian Jiang, Furong Liu, Jiayin Liu, Mutian Niu
5:00 – 6:00 pm	Welcome Dinner Party	

WEDNESDAY – JANUARY 21 – Overview of Graduate Education and California History and Wildlife

1041 Gladys Valley Hall

9:00 – 9:50 am	Graduate Education Opportunities at UC Davis	Jeff Gibeling, Graduate Studies
9:50 – 10:00 am	BREAK	
10:00 – 10:50 am	Some Reflections on Internationalization at UC Davis	Linxia Liang, Asian International Programs
10:50 – 1:00 pm	LUNCH	
1:00 – 1:50 pm	The History and Culture of California	Kelly Nimtz, School of Veterinary Medicine
1:50 – 2:00 pm	BREAK	
2:00 – 2:50 pm	California Agricultural History and Wildlife	Dirk Van Vuren, Wildlife, Fish & Conservation Biology
2:50 – 3:30 pm	Walk to Shields Library	
3:30 – 4:30 pm	Tour of Shields Library	Lee Riggs, Shields Library

Week One – Continued

THURSDAY – JANUARY 22 – California Agriculture and One Health

1041 Gladys Valley Hall

8:30 – 8:45 am	Farm Overview	Heather Johnson, WIFSS
8:45 – 12:00 pm	Tour of Farm on Putah Creek, Winters	Amy Williams, Center for Land-Based Learning
12:00 – 1:00 pm	LUNCH	
1:00 – 1:50 pm	Using a One Health Approach to Reduce Risk and Promote Global Health	Tracey Goldstein, One Health Institute
1:50 – 2:00 pm	BREAK	
2:00 – 2:50 pm	Health and Development at the Animal-Human Interface: the HALI Project in Tanzania	David Wolking, One Health Institute
2:50 – 3:10 pm	BREAK	
3:10 – 4:00 pm	Understanding the Dangers of Agroterrorism	David Goldenberg, WIFSS

FRIDAY – JANUARY 23 – Veterinary School Tours and Field Trip

1105 VM3B

9:00 – 9:30 am	Overview of Tours	Heather Johnson, WIFSS
9:30 – 10:50 am	Tour of Veterinary Medical Teaching Hospital	Caroline Murray and Desirae Costello, SVM Class of 2018
10:50 – 11:00 am	Travel Time (back to VM3B)	
11:00 – 12:00 pm	Tour One Health Institute and Atwill Water and Foodborne Zoonotic Disease Laboratory	Tracey Goldstein, OHI Ronny Bond, Atwill Lab
12:00 – 1:00 pm	LUNCH	
1:00 – 3:00 pm	Tour of Downtown Davis	Chris Brunner, Heather Johnson

Week Two – Veterinary, Food and Plant Sciences

MONDAY – JANUARY 26 – Veterinary Medicine and Animal Science

1041 Gladys Valley Hall

9:00 – 10:15 am	Opportunities in Academic Veterinary Medicine	Gina Davis, School of Veterinary Medicine Karl Jandrey, School of Veterinary Medicine
10:15 – 10:30 am	BREAK	
10:30 – 11:20 am	Overview of Graduate Programs in Department of Animal Science	James Murray, Department of Animal Science
11:30 – 12:30 pm	LUNCH	
12:30 – 1:20 pm	Sustainable Intensification: How to Satisfy the Rising Demand for Animal Protein without Depleting Natural Resources	Frank Mitloehner, Department of Animal Science
1:20 – 1:40 pm	Travel Time to Meat Lab	Chris Brunner
1:40 – 2:40 pm	Tour of Meat Lab and Horse Barn	
2:40 – 3:00 pm	Travel Time Back to Valley Hall	
3:00 – 4:00 pm	Dairy Cattle Welfare: Research Informing Policy	Cassandra Tucker, Department of Animal Science

TUESDAY – JANUARY 27 – Food Science/Post Harvest

1207 RMI South

8:30 – 9:30 am	Food Safety Education: Chemicals, Microbes, and Music	Carl Winter, Food Science & Technology
9:30 – 9:40 am	BREAK	
9:40 – 10:30 am	Novel Approaches to Detect and Reduce Bacteria in Food Systems	Nitin Nitin, Food Science & Technology
10:30 – 10:45 am	BREAK	
10:45 – 11:35 am	Food Safety Considerations for Tree Nuts Produced in the U.S.	Linda Harris, Food Science & Technology
11:35 – 12:35 pm	LUNCH	
12:35 – 1:30 pm	Tour of Robert Mondavi Institute	
1:30 – 2:20 pm	Food, Culture and Health: An introduction to Food Studies	Charlotte Biltekoff, Food Science & Technology
2:20 – 2:40 pm	BREAK	
2:40 – 3:30 pm	New Opportunities and Challenges for Bioactive Ingredients Manufacturing	Daniela Barile, Food Science & Technology

Week Two - Continued

WEDNESDAY – JANUARY 28 – San Francisco Field Trip

San Francisco

8:30 am Board Bus (parking lot outside VM3B)

8:30 – 6:30 pm Guided Tour of San Francisco

6:30 pm Return to UC Davis Campus

THURSDAY – JANUARY 29 – Environmental and Animal Health

1041 Gladys Valley Hall

8:30 – 9:20 am Oiled Wildlife Response - An Overview

Mike Ziccardi, Oiled Wildlife Care Network, Karen C. Drayer Wildlife Health Center, School of Veterinary Medicine

9:20 – 10:10 am Air Pollution in Nanjing, China, and the California Central Valley

Kent Pinkerton, School of Medicine, and School of Veterinary Medicine, UC Davis

10:10 – 10:25 am BREAK

10:25 – 11:15 am Behavior Problems in Animals and Its Effects on the Human-Animal Bond and Welfare

Melissa Bain, School of Veterinary Medicine

11:15 – 12:05 pm Integrated Health Assessment of Aquatic Organisms

Swee Teh, School of Veterinary Medicine

12:05 – 12:50 pm LUNCH

12:50 – 1:00 pm Travel Time to Raptor Center

1:00 – 4:30 Tour of Goat Barn, California Raptor Center, and Center for Equine Health

Jan Carlson, Goat Barn
Michelle Hawkins, California Raptor Center
Claudia Sonder, Center for Equine Health

FRIDAY – JANUARY 30 – Agriculture/Plant Science

1041 Gladys Valley Hall

8:30 – 8:40 am Meet at 1041 Gladys Valley Hall

8:40 – 9:00 am Walk to 101 Bowley

9:00 – 10:00 am Tour of UC Davis Student Farm

Mark Van Horn, Student Farm, Agricultural Sustainability Institute

10:00 – 11:50 am Students Attend Class (classes to be announced)

11:50 – 1:15 pm LUNCH

1:15 – 1:45 pm Travel Time to Room 4204 Genome Center

1:45 – 3:00 pm Opportunities for Genomics Research at UC Davis

Richard Michelmore, Genome Center

3:00 – 5:00 pm Students Attend Class (classes to be announced)

Week Three – Food Safety & Graduate Education

MONDAY – FEBRUARY 2 – Food Safety, Water Quality, One Health

1041 Gladys Valley Hall

8:30 – 9:00 am	Careers in Veterinary Medicine – Stepping Stones to Leadership in One Health	Michael Lairmore, School of Veterinary Medicine
9:00 – 9:10 am	BREAK	
9:10 – 10:00 am	Improving Produce Safety Across United States	Rob Atwill, WIFSS
10:00 – 10:10 am	BREAK	
10:10 – 11:00 am	Foodborne Microbial Pathogens and Pre-Harvest Produce Safety on Farms	Xunde Li, WIFSS
11:00 – 11:15 am	BREAK	
11:15 – 12:05 pm	Food Safety Risks Associated with Wildlife – Real World Examples	Michele Jay-Russell, Western Center for Food Safety
12:05 – 1:00 pm	LUNCH	
1:00 – 2:30 pm	St. Patrick's Day Revenge Case Study	David Goldenberg, WIFSS
2:30 – 2:45 pm	BREAK	
2:45 – 3:35 pm	Web of Causation	Mandy Arens, WIFSS

TUESDAY – FEBRUARY 3 – Food Safety, Water Quality, One Health

1041 Gladys Valley Hall

(Combined Undergraduate and Graduate Students)

9:00 – 9:50 am	Role of Livestock and Wildlife in Produce Contamination	Rob Atwill, WIFSS
9:50 – 10:00 am	BREAK	
10:00 – 10:30 am	Investigation of Waterborne <i>Cryptosporidium</i> in Watershed and Risk Analysis	Xunde Li, WIFSS
10:30 – 12:00 pm	Discussion and Microscope Demonstration of Characteristics of <i>Cryptosporidium</i>	Xunde Li, WIFSS
12:00 – 1:00 pm	LUNCH	
1:00 – 1:50 pm	Dairy Food Safety: Case Histories of Outbreaks	Mike Payne, WIFSS
1:50 – 2:00 pm	BREAK	
2:00 – 2:50 pm	Soil and Food Safety: What's the Connection?	Randy Southard, Land, Air and Water Resources

Week Three - Continued

WEDNESDAY – FEBRUARY 4 – Dairy Day

1041 Gladys Valley Hall

(Combined Undergraduate and Graduate Students)

9:00 – 9:50 am	Mastitis in Dairy Cattle (VET435B Lecture, Large Animal Stream – Livestock Emphasis)	John Angelos, WIFSS
9:50 – 10:00 am	BREAK	
10:00 – 10:50 am	Modern Dairy Production in the U.S.	Mike Payne, WIFSS
10:50 – 11:15 am	BREAK and Board the Bus	
11:15 – 6:00 pm	Tour of Hilmar Cheese Company, Hilmar Tour of Ahlem Farms, Hilmar Lunch at Hilmar Cheese Company, Hilmar	

THURSDAY – FEBRUARY 5 – Veterinary School Admissions and Applications

1041 Gladys Valley Hall

(Combined Undergraduate and Graduate Students)

9:00 – 9:50 am	Successful Veterinary Applications in UC Davis Admissions Process	Sean Owens, School of Veterinary Medicine
9:50 – 10:00 am	BREAK	
10:00 – 10:50 am	Graduate Education From a Professor's Perspective	Xinbin Chen, School of Veterinary Medicine,
10:50 – 11:10 am	BREAK	
11:10 – 12:00 pm	Opportunities for Graduate Education in International Agricultural Development	Jim Hill, Kate Scow, Theresa Costa, College of Agricultural and Environmental Sciences
12:00 – 1:00 pm	LUNCH	
1:00 – 1:15 pm	Graduate Students Board Bus (outside VM3B)	
1:15 – 5:30 pm	Graduate Students Tour Woodbridge by Robert Mondavi Winery, Acampo	
1:00 – 1:45 pm	Introduction to Graduate Program in Plant Biology (for undergraduate students)	Kentaro Inoue, Plant Sciences
1:45 – 2:00 pm	Undergraduate Students Board Vans	
2:00 – 5:00 pm	Undergraduate Students Tour of Old Sacramento and State Capitol	Chris Brunner, Jessica Cadriel, Heather Johnson, WIFSS

Week Three - Continued

FRIDAY – FEBRUARY 6 – Opportunities and Congratulations

1041 Gladys Valley Hall

9:00 – 9:50 am	Masters in Preventive Veterinary Medicine: Educating Future Leaders in Veterinary Population Health	Ashley Hill, School of Veterinary Medicine
9:50 – 10:00 am	BREAK	
10:00 – 11:00 am	Regulation of Plant Cell Division and Cell Growth by Microtubules	Bo Liu, College of Biological Sciences
11:00 – 11:15 am	BREAK	
11:15 – 12:00 pm	Does a One Health Approach Make Sense for China?	Patricia Conrad, School of Veterinary Medicine, UC GHI
12:00 – 12:30 pm	Certificate Presentation	Patricia Conrad, School of Veterinary Medicine, UC GHI
1:00 – 3:00 pm	Graduate Programs Faire and Pizza Party (Taking place in Room 1023 Valley)	Graduate Program Faire: <i>Immunology</i> , Jessica Drushell <i>Epidemiology</i> , Tami Ali <i>Comparative Pathology</i> , TBD <i>Food Science</i> , Nicole Rabaud <i>School of Veterinary Medicine</i> , Tina Maher



John Angelos

Dr. John Angelos is an Associate Professor in the Department of Medicine and Epidemiology at the School of Veterinary Medicine and WIFSS. His professional interests include internal medicine and infectious diseases of food producing animals and development of improved vaccination/vaccine delivery strategies to support sustainable food production practices. Dr. Angelos is a Diplomate of the American College of Veterinary Internal Medicine (Large Animal).



Mandy Arens

Dr. Mandy Arens is Program Manager at WIFSS and provides coordination and oversight for WIFSS Outreach projects and a team of scientific researchers and educational specialists. Additionally, she provides expertise and experience in program development, assessment and evaluation. Dr. Arens has a strong research background in translational medicine and her current position places her at the interface of humans, animals and the environment in a One Health approach to food safety.



Rob Atwill

Dr. Rob Atwill is Director of the Western Institute for Food Safety and Security, and Director of Veterinary Medicine Extension. He is a professor of epidemiology and medical ecology in the Department of Population Health and Reproduction, School of Veterinary Medicine, UC Davis. His academic program focuses on identifying strategies for minimizing microbial contamination of food and water.



Melissa Bain

Dr. Melissa Bain is an Associate Professor and Chief of Service of the Clinical Animal Behavior Service. She is board-certified by the American College of Veterinary Behaviorists and American College of Animal Welfare. Her responsibilities include student and resident education, clinical case management, and research, focusing on clinical domestic animal behavior problems and human-animal bond issues.



Daniela Barile

Dr. Daniela Barile is Assistant Professor and Chemist, in the Department of Food Science & Technology, UC Davis. Her areas of interest include the study of complex carbohydrates in foods by using advanced mass spectrometry. She discovered that dairy by-products are a potentially excellent source of these unique molecules previously only found in human milk.



Charlotte Biltekoff

Dr. Charlotte Biltekoff is Associate Professor of American Studies and Food Science and Technology at UC Davis, where she builds bridges between scientific and cultural approaches to questions about food and health. She is author of *Eating Right in America: The Cultural Politics of Food and Health* (Duke University Press, 2013), an exploration of the social and cultural dimensions of dietary advice and the changing meaning of “eating right” over the course of the last century.



Xinbin Chen

Dr. Xinbin Chen is Professor at UC Davis Schools of Medicine and Veterinary Medicine. He is leader of the Comparative Oncology Program at the two schools. The comparative oncology program has the goal of drawing on key strengths of UC Davis in animal research pertaining to the disease mechanisms that are implicated in the genesis and progression of cancer. Dr. Chen’s research focuses on the function of the p53 family in tumor suppression, development, and aging.



Patricia Conrad

Dr. Pat Conrad is the Associate Dean for Global Programs for the School of Veterinary Medicine at UC Davis and Co-Director of the UC Global Health Institute, One Health Center of Expertise: Water, Animals, Food and Society. Her publications emphasize the value of collaborative research and education that considers the interconnectedness of humans, animals and environmental change worldwide.



Theresa Costa

Ms. Theresa Costa is the Student Affairs Officer for the International Agricultural Development master’s program and bachelor’s degree and is the primary contact for prospective students to these programs. She has worked in higher education student advising for 12 years.



Gina Davis

Dr. Gina Davis is Associate Clinical Professor in the Department of Medicine and Epidemiology at the School of Veterinary Medicine, and runs the Outpatient Medicine service, in the Veterinary Medical Teaching Hospital. Dr. Davis is a Diplomate of the American Board of Veterinary Practitioners in Canine and Feline Practice. Her interests include pediatrics and vaccinology, dermatology, internal medicine, oncology and clinical pathology.



Jeff Gibeling

Dr. Jeff Gibeling is Vice Provost of Graduate Education, and Dean of Graduate Studies, at UC Davis. He oversees more than 90 graduate degree programs, of which more than one-half are organized as interdisciplinary graduate groups. He is deeply committed to increasing the diversity of the graduate population at UC Davis. He has also devoted significant attention to the needs of postdoctoral scholars and established an award for Excellence in Postdoctoral Research.



David Goldenberg

Mr. David Goldenberg is Acting Program Manager, Preparedness Training at WIFSS. His main focus is on the development of field training exercises and job aids for produce investigations. He is also an instructor for WIFSS' Agroterrorism Preparedness Training for Frontline Responders - a six course food safety/security curriculum sponsored by the US Department of Homeland Security (DHS) and offered through the Rural Domestic Preparedness Consortium (RDPC)



Tracey Goldstein

Dr. Tracey Goldstein is Associate Director at the University of California Davis, One Health Institute, where she developed and oversees the One Health Institute Laboratory and the Marine Ecosystem Health Diagnostic and Surveillance Laboratory. She is also the Pathogen Detection and Lab Capacity Co-Lead for the viral emergence early warning project PREDICT, developed with the US Agency for International Development's Emerging Pandemic Threats (EPT) Program.



Linda Harris

Dr. Linda Harris, Specialist in Cooperative Extension, Department of Food Science and Technology, oversees a research program on the microbial food safety of fresh fruits and vegetables and tree nuts. She is actively involved with the International Association of Food Protection (IAFP) and will serve as President of the association beginning in August 2016.



Ashley Hill

Dr. Ashley Hill is the Chair of the MPVM Program at UC Davis, where she is also Associate Professor of Clinical Diagnostic Epidemiology at the California Animal Health and Food Safety Laboratory, and Section Head for Immunology. Her research interests are varied and currently include diagnostic testing for livestock diseases and the epidemiology of musculoskeletal injuries in Thoroughbred racehorses.



Jim Hill

Dr. Jim Hill is Associate Dean for International Programs, College of Agricultural and Environmental Sciences, UC Davis. For most of his career he has worked with the California rice industry as well as internationally on increasing rice productivity through improved cultural and pest management practices. He has conducted research and education programs to solve issues of environmental stewardship related to water quality and straw management in rice production.



Kentaro Inoue

Dr. Kentaro Inoue is Professor in the Department of Plant Sciences, and Chair of Plant Biology Graduate Group at UC Davis. His research interests are in cellular functions, including energy conversions systems and organelle biogenesis.



Karl Jandrey

Dr. Karl Jandrey is a board-certified specialist in small animal emergency and critical care. He is the Director of the Center for Continuing Professional Education for the School of Veterinary Medicine. He studies the underlying mechanisms of thromboembolism in cats with hypertrophic cardiomyopathy. Dr. Jandrey teaches veterinary students in the Emergency Room or the Intensive Care Unit of the Veterinary Medical Teaching Hospital.



Michele Jay-Russell

Dr. Michele Jay-Russell is Program Manager of the Western Center for Food Safety, and Liaison to WIFSS. Her research interests are in food safety and veterinary public health with an emphasis on the molecular epidemiology of enteric zoonotic foodborne pathogens. For example, her recent work is focusing on understanding the role of wildlife and domestic animals in the environmental dissemination of *Campylobacter* and *E. coli* O157 on dairy and produce farms.



Heather Johnson

Ms. Heather Johnson is Acting Instructional Systems Designer and Educational Specialist at WIFSS. She oversees the instructional design component of WIFSS training and educational projects in accordance with certification standards that meet local, state and federal agency requirements. She designs blended-learning educational materials specifically using principles of adult education.



Michael Lairmore

Dr. Michael Lairmore is Dean of the School of Veterinary Medicine and oversees all teaching, research and service activities, personnel, facilities and funding resources. Dean Lairmore's goals include building mission-focused programs that will continue to provide outstanding education for society-ready veterinarians and produce innovative research findings to address important problems ranging from clinical veterinary medicine to public health.



Xunde Li

Dr. Xunde Li is a research microbiologist who works on food and waterborne pathogens in the Atwill Water and Foodborne Zoonotic Disease Laboratory at WIFSS. His research focuses on survival and transmission of zoonotic pathogens, molecular epidemiology of protozoal pathogens and dynamics of antibiotic resistant bacteria in animal production systems.



Linxia Liang

Dr. Linxia Liang is Director of Asian International Programs, UC Davis Global Affairs. She is the winner of many awards including the Ford Foundation International Scholarship and the Great Britain-China Education Trust. She is the author of *A Study on Traditional Chinese legal Culture and its Modernization* by China University of Political Science and Law Press and *Delivering Justice in Qing China (1644-1911)* by Oxford University Press.



Bo Liu

Dr. Bo Liu is a Professor in the Department of Plant Biology, UC Davis College of Biological Sciences. His research interests include the study of cell biology of the cytoskeleton and intracellular motility in plant and fungal cells. In the Liu Lab the team works on how plant and fungal cells organize their cytoplasmic contents by use of microscopic and imaging tools to watch how cells divide and enlarge themselves.



Frank Mitloehner

Dr. Frank Mitloehner is Professor and Air Quality Specialist in Cooperative Extension. He is an expert for agricultural air quality, animal-environmental interactions, and agricultural engineering. Dr. Mitloehner was elected chairman of a global United Nations FAO project to benchmark the environmental footprint of livestock production. He serves as a workgroup member on the President's Council of Advisors on Science and Technology (PCAST).



Richard Michelmore

Dr. Richard Michelmore is the founding Director of the Genome Center at the University of California at Davis. He is currently a Distinguished Professor in the Departments of Plant Sciences, Molecular & Cellular Biology, and Medical Microbiology & Immunology. His interests span basic research into the molecular basis of specificity in plant-pathogen interactions to translational plant genetics and crop improvement.



James Murray

Dr. James Murray is currently a Professor in the Departments of Animal Science and Population Health and Reproduction, and Chair of the Animal Biology Graduate Group at the University of California at Davis. His research has focused on the expression of human lysozyme in the milk, first of mice, and then dairy goats, with the objective of developing dairy animals that provide milk with enhanced antimicrobial properties for use in preventing or treating diarrhea in children.



Kelly Nimitz

Mr. Kelly Nimitz is retired from the School of Veterinary Medicine. His responsibilities included fund raising for new veterinary buildings, student scholarships, and faculty endowments. He directed the school's first capital campaign and established the Development Office. Prior to his retirement in 2010, Kelly and his Development Office colleagues assisted with the construction of five new buildings including funds needed to construct a \$20 million Center for Companion Animal Health.



Nitin Nitin

Dr. Nitin Nitin is Associate Professor and Engineer in the Department of Food Science and Technology, College of Agricultural and Environmental Sciences, UC Davis. Dr. Nitin is interested in using a combination of interdisciplinary approaches encompassing biomolecular engineering, mathematical modeling, material science and molecular imaging.



Bennie Osburn

Dr. Bennie Osburn is Director of Outreach and Training at the Western Institute for Food Safety and Security. He is Dean Emeritus of the School of Veterinary Medicine, UC, Davis. Dr. Osburn's research has focused on infectious diseases of livestock, zoonotic diseases, including foodborne pathogens, and the ecology of infectious agents. He is interested in applying a One Health approach to food safety.



Sean Owens

Dr. Sean Owens is an Associate Professor of diagnostic clinical pathology in the Department of Pathology, Microbiology and Immunology at the UC Davis School of Veterinary Medicine, and the Associate Dean for Admissions and Student Programs at the School. Primary areas of research focus are blood banking and transfusion medicine, and blood typing and cross-matching compatibility issues in companion animals with a primary focus on horses.



Mike Payne

Dr. Michael Payne is a researcher and outreach coordinator at WIFSS. Dr. Payne has worked as a veterinarian in extension, academics and private practice. He is director of the California Dairy Quality Assurance Program, an industry, academic regulatory partnership which promotes the health and welfare of livestock, consumers and the environment through outreach, education and research.



Kent Pinkerton

Dr. Kent Pinkerton is Professor of Pediatrics; Professor of Anatomy, Physiology and Cell Biology in the Schools of Medicine and Veterinary Medicine at the University of California, Davis; and Director for the Center for Health and the Environment under the John Muir Institute for the Environment located at UC Davis. Dr. Pinkerton is a leading expert in air pollution health and tobacco smoke research, emphasizing lung development and fetal basis of adult-onset respiratory diseases.



Randy Southard

Dr. Randy Southard is Professor of soil science in the California Agricultural Experiment Station, and chair of the Department of Land, Air and Water Resources, at the University of California, Davis. His research focuses on soil mineralogy in relation to soil fertility (primarily phosphorous and potassium), processes of soil formation, and soils as sources of dust in relation to air quality and human health.



Kate Scow

Dr. Kate Scow is Professor of Soil Science and Microbial Ecology in the Department of Land, Air and Water Resources at UC Davis. She is Director of the Russell Ranch Sustainable Agriculture Facility, home of the Century Experiment, and is Chair of the International Agriculture Development Graduate Group. Her research is focused on the role of soils and soil biodiversity in sustainable agriculture and small holder vegetable production in Uganda.



Swee Teh

Dr. Swee Teh is Director of the Aquatic Health Program. His research has focused on the development of the aquatic ecotoxicology program and endocrine disruptor screening and testing program at UC Davis. He has a long standing interest in improving and preserving the health of all aquatic species at the human-water-animal interface and maintaining educational, research, and service programs of the highest quality to protect and improve the health of aquatic ecosystems.



Cassandra Tucker

Dr. Cassandra Tucker is an Associate Professor in the Department of Animal Science. Dr. Tucker is an expert in cattle welfare. She has extensive experience using behavioral and physiological endpoints to assess cattle welfare and results from her work are relevant for producers, allied industry and policy makers.



Dirk Van Vuren

Dr. Dirk Van Vuren has been a professor of wildlife biology at UC Davis, since 1990. His research interests include the ecology, behavior, and conservation of mammals, with a focus on resolving human-wildlife conflicts. He teaches courses in Wildlife Ecology and in Ecology of Human-Wildlife Conflicts.



Carl Winter

Dr. Carl Winter is Extension Food Toxicologist and Vice Chair of the Department of Food Science and Technology at UC Davis. His research and outreach work focus on chemical contaminants in food, risk assessment, and risk communication. He is recognized as an innovative communicator of food safety information through his creative use of music as an educational tool.



David Wolking

Mr. David Wolking is the Global Operations Officer for the UC Davis One Health Institute and Operations Manager for the USAID Emerging Pandemic Threats PREDICT project. He has over a decade of experience managing and collaborating with multi-national teams in Latin America, East Africa and South Asia at the interface of health, livelihood improvement, natural resource management, and sustainable agriculture.



Mike Ziccardi

Dr. Mike Ziccardi is Director of the Oiled Wildlife Care Network, Co-Director of UC Davis' Karen C. Drayer Wildlife Health Center, and Health Science Clinical Professor at UC Davis' School of Veterinary Medicine. He has been an oil spill response veterinarian and coordinator since 1996, responding to more than 50 spills in the U.S. and abroad, including as the Marine Mammal and Sea Turtle Group Leader for the Deepwater Horizon oil spill in 2010.



Chris Brunner
Conference Coordinator
Marketing and Public Relations
Coordinator, WIFSS



Jenny Chen
Conference Staff Support
BFTV Cluster, UCD



Nicole Nisson
Conference Staff Support
Program and Financial Assistant, WIFSS

Graduate Student Panel



Wendy Chen
Undergraduate
Department of Animal Science
Recommended by: Dr. Huaijun Zhou



Chengming Jiang
Department of Engineering & Computer
Science
Major Professor: Dr. Zhaojun Bai



Yuqian Jiang
School of Veterinary Medicine, Dept.,
Surgical & Radiological Sciences
Major: Pharmacology & Toxicology
Major Professor: Dr. Xinbin Chen



Furong Liu
Department of Plant Pathology
Major Professor: Dr. Pamela Ronald



Jia Yin Liu
Undergraduate
Department of Animal Science
Recommended by: Dr. Huaijun Zhou



Mutian Niu
Animal Biology Graduate Group,
Department of Animal Science
Major Professor: Dr. Ermias Kebreab



Zhengyao (Zeya) Xue
Food Science and Technology
Recommended by: Dr. Carl Winter

TUESDAY – JANUARY 20

UC Davis Campus

Located in Davis on the largest University of California campus, UC Davis is known for its commitment to sustainability, standout academics and unmatched school spirit.

THURSDAY – JANUARY 22

Farm at Putah Creek

Amy Williams, Center for Land-Based Learning

The Farm on Putah Creek is the headquarters for the Center for Land-Based Learning, located on 40 acres of prime farmland on Putah Creek in Winters, California.

FRIDAY – JANUARY 23

William R. Pritchard Veterinary Medical Teaching Hospital

Dr. W. David Wilson, Director

The VMTH delivers state-of-the-art clinical care while providing training opportunities and clinical experiences for DVM students and post graduate veterinarian residents.

One Health Institute

Dr. Jonna Mazet, Executive Director

The One Health Institute is active all over the world, working at the interface of animals, people and the environment to solve complex problems that impact health and conservation.

Atwill Water and Foodborne Zoonotic Disease Laboratory

Dr. Rob Atwill, Director

The Atwill Water & Foodborne Zoonotic Disease Laboratory at the University of California, Davis is dedicated to researching how water and foodborne illness are transported from agrarian and wildlife sources to impact society.

MONDAY – JANUARY 26

UC Davis Meat Lab

Dr. Anita Oberbauer, Chair, Department of Animal Science

The UC Davis Meat Lab is a federally inspected meat processing plant located on the UC Davis campus in the Harold Cole Facility for the Study of Biology of Large Animals.

TUESDAY – JANUARY 27

Robert Mondavi Institute for Wine and Food Science

UC Davis College of Agricultural and Environmental Sciences

The Robert Mondavi Institute, (RMI), for Wine and Food Science works to enhance the quality of life through wine, brewing, and food sciences.

WEDNESDAY – JANUARY 28

San Francisco

THURSDAY – JANUARY 29

California Raptor Center

Dr. Michelle Hawkins, Director

The California Raptor Center, part of the UC Davis One Health Institute, is an educational and research facility dedicated to the rehabilitation of injured and orphaned birds of prey (raptors).

Center for Equine Health

Dr. Claudia Sonder, Director

The Center for Equine Health (CEH), is part of the School of Veterinary Medicine, and is dedicated to advancing the health, well-being, performance and veterinary care of horses through research, education and public service.

Dairy Goat Research Facility, UC Davis Animal Science Department

Ms. Jan Carlson, Facility Supervisor

More than 90 students a year come to the Goat Barn for weekly management classes or volunteer to gain goat management experience.

FRIDAY – JANUARY 30

The Student Farm

Mr. Mark Van Horn, Director

The Student Farm, part of the Agricultural Sustainability Institute at UC Davis, focuses on sustainable agriculture principles and practices, with an emphasis on in-field, experiential learning, and the encouragement of student initiative, creativity and exploration.

WEDNESDAY – FEBRUARY 4

Hilmar Cheese Company

The Hilmar Cheese Company in Hilmar, CA, makes cheese and whey products that contribute nutrition, enjoyment and value to people's lives. Hilmar ingredients serve customers in more than 50 countries from its two manufacturing facilities.

Ahlem Farms

Ahlem Farms Partnership is a 6,000-cow registered Jersey dairy situated in the heart of cheese country -- Hilmar, CA.

THURSDAY – FEBRUARY 5

Woodbridge by Robert Mondavi Winery (Graduate Students)

Old Sacramento/State Capitol (Undergraduate Students)

Program online at: http://www.wifss.ucdavis.edu/?page_id=8239