

# One Health for Food Safety Conference For Animal and Veterinary Scientists

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University of California, Davis  
November 30 – December 18, 2015

Sponsored by: Jiangsu Agro-animal Vocational College  
Co-Sponsored by: Nanjing Agricultural University

Hosted by:  
Western Institute for Food Safety and Security &  
School of Veterinary Medicine  
University of California, Davis



## Conference Description

The Western Institute for Food Safety and Security is hosting the “One Health for Food Safety for Animal and Veterinary Scientists” at the University of California, Davis campus for Jiangsu and Anhui provincial vocational college’s faculty who have an interest in the concept of One Health as it relates to food safety and innovative instructional programs developed as part of the NAU/UC Davis One Health Center joint program. The conference will take place between November 30 and December 18, 2015. The goal of the program is to increase the awareness of a comprehensive One Health approach to food safety through education, management, and application of technical services.

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) aimed at establishing a One Health Center for Food Safety at NAU. A novel food safety curriculum designed for the center will focus on understanding the role of animals, people and the environment in the food system. The educational programs will promote progress towards safer, better quality food systems in China. The vision of the One Health Center at NAU is to house a multidisciplinary faculty working on a wide array of projects related to food and water safety. The primary focus of the One Health Center for 2016 is to build capacity for coordinating education with vocational colleges to facilitate the concepts for food safety through One Health for Asia.

Special thanks to our speakers and 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
- John Angelos, Associate Professor of Veterinary Medicine, WIFSS
- Heather Johnson, Instructional Systems Designer, WIFSS
- Cheryl Scott, Special Consultant to WIFSS
- Chris Brunner, Conference Coordinator, 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 and faculty from China who are interested in coming to UCD to experience this great university.

# Week One – Welcome & Orientation

## MONDAY – NOVEMBER 30

1041 Gladys Valley Hall

9:00 – 9:30 am	Welcome from SVM	<i>Isaac Pessah, School of Veterinary Medicine</i>
9:30 – 10:00 am	WIFSS Overview	<i>Bennie Osburn, WIFSS</i>
10:15 – 10:45 am	Welcome from Food Science and Technology	<i>Michael McCarthy, Department of Food Science and Technology</i>
10:45 – 11:00 am	BREAK	
11:00 – 12:00 pm	Overview of Food Safety	<i>Bennie Osburn, WIFSS</i>
12:00 – 1:00 pm	LUNCH	
1:00 – 2:00 pm	Overview of One Health	<i>Cheryl Scott, WIFSS</i>
2:00 – 2:15 pm	BREAK	
2:15 – 4:00 pm	Group Discussions (1011, 1013, 2011 Valley)	<i>Cheryl Scott, John Angelos, Mike Payne, David Goldenberg</i>
4:00pm	ADJOURN	

## TUESDAY – DECEMBER 1

1138 Meyer Hall / 1041 Gladys Valley Hall

8:30 – 9:15 am	Opportunities for Undergraduates in the Department of Animal Science (1138 Meyer Hall)	<i>Anita Oberbauer, Department of Animal Science</i>
9:15 – 10:00 am	Overview of Research Programs at Department of Animal Science (1138 Meyer Hall)	<i>Huaijun Zhou, Department of Animal Science</i>
10:00 – 10:15 am	BREAK	
10:15 – 11:00 am	Tour of Labs	
11:00 – 11:45 am	Sustainable Intensification: How to Satisfy the Rising Demand for Animal Protein without Depleting Animal Populations (1138 Meyer Hall)	<i>Frank Mitloehner, Department of Animal Science</i>
11:45 – 12:00 pm	Return to 1041 Valley	
12:00 – 1:15 pm	LUNCH in 1041 Valley	
1:15 pm	Meet in Lobby of Valley	
1:15 – 1:30 pm	Walk to VMTH	
1:30 – 3:00 pm	Tour of VMTH	<i>Courtney Korff, Class of 2017 Kristin Bowers, Class of 2018 School of Veterinary Medicine</i>
3:00 – 3:15 pm	Walk Back to 1041 Valley	
3:15 – 4:00 pm	Proposed Curriculum for One Health in Food Safety/The FARAD Model to Help Prevent Residues in Human Food (1041 Valley Hall)	<i>John Angelos, WIFSS</i>
4:00 pm	ADJOURN	

## WEDNESDAY – DECEMBER 2

1041 Gladys Valley Hall

8:30 – 9:30 am	Avian Influenza in the U.S., Overview and One Health Approaches for Prevention and Control	<i>Rodrigo Gallardo, School of Veterinary Medicine</i>
9:30 – 10:30 am	California Dairy Industry View	<i>Ed DePeters, Department Animal Science</i>
10:30 – 12:00 pm	BREAK	
12:00 – 12:45 pm	Overview of School of Veterinary Medicine	<i>Michael Lairmore, School of Veterinary Medicine</i>
12:45 – 1:45 pm	LUNCH	
1:45 – 2:30 pm	Antibiotic Use, Misuse and Monitoring in Dairy Production in the U.S. and California	<i>Michael Payne, WIFSS</i>
2:30 – 2:45 pm	BREAK	
2:45 – 3:45 pm	Soils and Food Safety: What's the Connection?	<i>Randy Southard, Department of Land, Air and Water</i>
3:45 – 4:00 pm	Review Session	<i>Bennie Osburn, WIFSS</i>
4:00 pm	ADJOURN	

## THURSDAY – DECEMBER 3

1041 Gladys Valley Hall

9:00 – 10:30 am	Dairy Dynamic Management	<i>James Cullor, School of Veterinary Medicine</i>
10:30 – 10:45 am	BREAK	
10:45 – 12:00 pm	Pathogen Challenge of Animal and Foodwaste	<i>Pramod Pandey, School of Veterinary Medicine</i>
12:00 – 1:30 pm	LUNCH in Valley	
1:30 – 4:00 pm	Group Discussions (2060, 2061, 2067 Valley)	<i>Bennie Osburn, David Goldenberg, John Angelos, Mike Payne</i>
4:00 pm	ADJOURN	

## FRIDAY – DECEMBER 4

CAHFS Maddy Room /1041 Gladys Valley Hall

9:30 – 10:00 am	Welcome and Overview of CAHFS (CAHFS Maddy Conference Room)	<i>Rich Breitmeyer, CAHFS</i>
10:00 – 10:30 am	Environmental Toxicology (CAHFS Maddy Conference Room)	<i>Bob Poppenga, CAHFS</i>
10:30 – 10:45 am	BREAK	
10:45 – 12:00 am	Tour of CAHFS Labs	<i>Bob Poppenga, CAHFS</i>
12:00 – 12:15	Return to Valley	
12:15 – 1:00 pm	LUNCH	
1:00 pm	Board Vans for Trip to Banfield Clinics	<i>Board vans outside Valley (Brunner / Osburn Drivers)</i>
2:00 pm	Arrive Banfield Clinics, Folsom & Roseville	<i>Roseville/Folsom</i>
2:00 – 3:00 pm	Tour Banfield Clinics in Folsom & Roseville	<i>Jennifer L. Bruns, DVM, MPVM Ken Pawlowski, DVM</i>
3:00 pm	Board Vans for Return to Davis	
4:00 pm	Arrive Valley - ADJOURN	

## Week Two – VMTRC Herd Health / Tulare

### MONDAY – DECEMBER 7

Livingston / Tulare

9:00 am	Depart Campus	<i>VP Parking Lot 50</i>
11:00 am	Arrive Foster Farms	<i>Livingston</i>
12:00 pm	LUNCH	
1:30 pm	Depart Foster Farms	
4:00 pm	Arrive Fairfield Inn and Suites	<i>Tulare</i>
6:00 pm	DINNER	

### TUESDAY – DECEMBER 8

Tulare

8:30 am	Board Bus	<i>Fairfield Inn &amp; Suites</i>
8:45 am	Arrive VMTRC	
9:00 – 9:30 am	Overview of Veterinary Medicine Teaching and Research Center (VMTRC)	<i>Terry Lehenbauer, VMTRC</i>
9:30 – 10:30 am	VMTRC Research - Epidemiology	<i>Sharif Aly, VMTRC</i>
10:30 – 11:30 am	VMTRC Research - Nutrition	<i>Kelly Mitchell, VMTRC</i>
11:30 – 12:30 pm	Milk Quality Lab Presentation; DNA Lab	<i>Kathy Glenn &amp; Karen Tonooka, VMTRC</i>
12:30 – 1:30 pm	LUNCH	<i>Catered Lunch</i>
1:30 – 2:30 pm	VMTRC Research – Nutrition	<i>Heidi Rossow, VMTRC</i>
2:30 – 3:00 pm	California Animal Health and Food Safety Laboratory (CAHFS)	<i>John Adaska, CAHFS</i>
3:00 – 4:00 pm	Poultry Pathology	<i>H. L. Shivaprasad, CAHFS</i>
4:00 pm	Board Bus for Return to Hotel	
6:00 pm	DINNER	



## WEDNESDAY – DECEMBER 9

### Tulare

8:15 am	Board Bus	<i>Fairfield Inn &amp; Suites</i>
8:30 am	Arrive VMTRC	
8:30 – 12:00 pm	Core Herd Visits (1 large dairy farm & 1 large calf ranch)	<i>John Champagne &amp; Deniece Williams, VMTRC</i>
12:00 – 1:30 pm	LUNCH Presentation	<i>Catered Lunch Susan Morse, Where Food Comes From, Inc</i>
1:30 – 2:15 pm	VMTRC Research - Epidemiology	<i>Sharif Aly, VMTRC</i>
2:15 – 3:00 pm	Research – UC Cooperative Extension	<i>Noelia Silva-del-Rio, UCCE</i>
3:00 – 3:15 pm	BREAK	
3:15 – 3:30 pm	Research – UC Cooperative Extension	<i>Arnau Espadamala, UCCE</i>
3:30 – 3:45 pm	Research – UC Cooperative Extension	<i>Sonia Rodriguez Jimenez, UCCE</i>
3:45 – 4:00 pm	Research – UC Cooperative Extension	<i>Marc Pineda Balsells, UCCE</i>
4:00 pm	Board Bus for Return to Hotel	
6:00 pm	DINNER	

## THURSDAY – DECEMBER 10

### Tulare / UC Davis

8:00 am	Board Bus	<i>Fairfield Inn &amp; Suites</i>
8:00 – 12:00 pm	Travel Back to Davis Campus	
12:00 pm	Approximate Arrival	<i>VP Lot 50</i>
12:30 pm	ADJOURN	

## FRIDAY – DECEMBER 11

### Goat Barn / CEH / 1105 VM3B

8:45 am	Board Vans VM3B Parking Lot	<i>Chris Brunner and Jessica Cadriel Drivers</i>
9:00 am	Arrive Goat Barn	
9:00 – 10:00 am	Visit Goat Barn	<i>Rachel Irene Conway, Department Animal Sciences</i>
10:00 – 11:00 am	Visit CEH	<i>Claudia Sonder, CEH</i>
11:00 – 11:15 am	Return to VM3B	
11:15 – 1:00 pm	LUNCH (1105 VM3B)	
1:00 – 2:00 pm	Tour of Atwill Lab (4 <sup>th</sup> Floor VM3B)	<i>Xunde Li, School of Veterinary Medicine</i>
2:00 – 4:00 pm	Discussion Groups (1001, 1105 VM3B, 2010 Valley)	<i>Bennie Osburn, Mike Payne, David Goldenberg</i>
4:00 pm	ADJOURN	

# Week Three – Wildlife and Regulatory - Certificate Ceremony

## MONDAY – DECEMBER 14

1105 VM3B

9:00 – 9:45 am	Pathogens in Wildlife	<i>Michele Jay-Russell, Western Center for Food Safety</i>
9:50 – 10:50 am	Health, Food Safety, and Development at the Human-Animal Interface	<i>David Wolking, One Health Institute</i>
10:50 – 11:05 am	BREAK	
11:05 – 12:00 pm	Blended Learning	<i>Heather Johnson, WIFSS</i>
12:00 – 12:15 pm	Overview of Week's Schedule	<i>Bennie Osburn, WIFSS</i>
12:15 pm	Board Vans VM3B Parking Lot	<i>Chris Brunner, Michelle Warner Drivers</i>
12:45 – 4:30 pm	Vacaville Outlets	
4:30 pm	Board Vans for Return to Campus	
5:00 pm	ADJOURN	

## TUESDAY – DECEMBER 15

1105 VM3B

9:00 – 9:45 am	The Use of Biotechnology in Animal Agriculture	<i>Alison Van Eenennaam, Department of Animal Science</i>
10:00 – 12:00 pm	Research and Discovery – A Key Component of Animal Sciences and Professional Veterinary Education	<i>Xinbin Chen</i>
12:00 pm	ADJOURN	

## WEDNESDAY – DECEMBER 16

1041 Valley

9:30 – 10:15 am	A Brave New World: Mitigating Antibiotic Usage in Poultry Production	<i>Maurice Pitesky, School of Veterinary Medicine</i>
10:15 – 10:30 am	BREAK	
10:30 – 11:15 pm	The Notifiable Livestock and Poultry Diseases System in California	<i>Dennis Wilson, CDFA</i>
11:15-12:00 pm	California Equine Regulatory Disease Control	<i>Katie Flynn, CDFA</i>
12:00 – 1:00 pm	LUNCH in Valley	
1:00 – 2:00 pm	The Importance of a Teaching Hospital for Preparing Students for Clinical Practice	<i>David Wilson, School of Veterinary Medicine</i>
2:00 – 2:15 pm	BREAK	
2:15 – 4:00 pm	Group work on presentations (1011, 1013, 2011 Valley)	<i>David Goldenberg, John Angelos, Mike Payne</i>
4:00 pm	ADJOURN	

## THURSDAY – DECEMBER 17

1041 Valley

9:00 – 9:50 am	The Science Behind Animal Welfare: Approaches, Metrics and Interactions	<i>Carolyn Stull, School of Veterinary Medicine</i>
9:50 – 10:00 am	BREAK	
10:00 – 12:00 pm	Discussion Group (1013, 2011, 2060 Valley)	<i>David Goldenberg, John Angelos, Mike Payne</i>
12:00 – 1:00 pm	LUNCH	
1:00 – 4:00 pm	Prep Time for Presentations (1013, 2011, 2060 Valley)	
4:00 pm	ADJOURN	

## FRIDAY – DECEMBER 18

1041 Valley

9:00 – 9:30 am	Closing Remarks	<i>Bennie Osburn</i>
9:30 – 10:00 am	BREAK / Photo Shoot	<i>Don Preisler, Photography</i>
10:00 – 12:00 pm	Group Presentations	<i>Bennie Osburn, John Angelos, Mike Payne</i>
12:00 – 1:00 pm	LUNCH	<i>Catered Lunch</i>
1:00 – 2:00 pm	Certificate Presentation	<i>Pat Conrad, School of Veterinary Medicine</i>
2:00 pm	ADJOURN	





### John Angelos

Dr. John Angelos is a 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, development of improved vaccination/vaccine delivery strategies to support sustainable food production practices, and development of curricula related to One Health in Food Safety. Dr. Angelos is a Diplomate of the American College of Veterinary Internal Medicine (Large Animal).



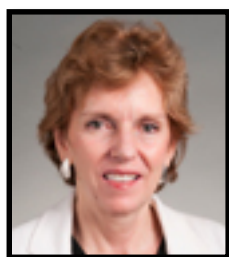
### Rich Breitmeyer

Dr. Richard Breitmeyer, formerly California state veterinarian, is director of the California Animal Health and Food Safety Laboratory system headquartered at the University of California, Davis. The laboratory system is a partnership between the California Department of Food and Agriculture and the UC Davis School of Veterinary Medicine, and provides veterinarians and livestock and poultry producers throughout the state with rapid, reliable diagnoses of animal diseases.



### 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. His research focuses on the function of the p53 family in tumor suppression, development, and aging.



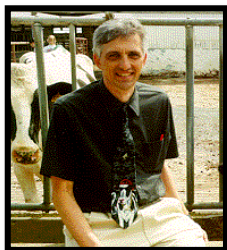
### Patricia Conrad

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.



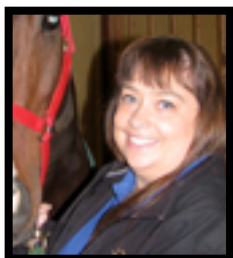
### Jim Cullor

Dr. Jim Cullor, a professor in the Department of Population, Health and Reproduction at the School of Veterinary Medicine, works extensively throughout China talking to dairymen about how to maintain animal, public, and ecosystem health, and food safety. His research focus is mastitis, neonatal diseases, vaccines, novel antimicrobial compound development and testing, and studying novel methods for controlling pathogens in milk.



### Ed DePeters

Dr. DePeters is a professor in the Department of Animal Science at the University of California, Davis. His research, which has been widely applied in the dairy industry, has focused on how the composition of milk, particularly the fatty-acid content, can be modified by changes in the cow's diet, and how agricultural by-products such as almond hulls and cottonseed can be converted into nutritious feeds. His research has resulted in more than 120 scientific publications.



### Katie Flynn

Dr. Katie Flynn is the Equine Staff Veterinarian for the California Department of Food and Agriculture Animal Health Branch. Dr. Flynn oversees California's Horseshow Drug Testing Program and provides oversight for the Equine Regulatory Disease Investigations. Additionally, her area of interest is equine event biosecurity and in 2012 published the Equine Event Biosecurity Toolkit for equine event managers.



### Rodrigo Gallardo

Dr. Rodrigo Gallardo is an assistant professor in the Poultry Medicine Program in the Department of Population Health and Reproduction in the School of Veterinary Medicine. His research interests are in the area of the avian virology, specifically RNA viruses and their capabilities of mutation, recombination and variation making them very difficult to control in productive settings



### David Goldenberg

Mr. Goldenberg is an instructor in food safety with the Western Institute for Food Safety and Security. He contributes to food safety projects for the US Food and Drug Administration (FDA) Integrated Food Safety System (IFSS). He is involved in the produce investigations course and is working on integrating video and table top exercises to enhance adult learning principles.



### 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. His 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.



### **Terry Lehenbauer**

Dr. Lehenbauer is an associate professor and Director of the Veterinary Medicine Teaching and Research Center, in the School of Veterinary Medicine. He is Director of the Center for Food Animal Health and provides oversight for the school's research programs related to food animal health and well-being, food safety, and healthy environments for both food animals and people. His area of expertise is dairy cattle herd health and production medicine with an emphasis on infectious disease epidemiology, risk management and animal health economics.



### **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.



### **Michael McCarthy**

Dr. McCarthy is the department chair, and a professor and engineer, in the Department of Food Science and Technology at the University of California, Davis. His research interests include the application of process analytical technology to food manufacturing processes, real-time measurements of product quality, measurements and modeling of transport phenomena in food process, and the development and evaluation of novel magnetic resonance based process sensors.



### **Frank Mitloehner**

Dr. Frank Mitloehner is a professor and air quality specialist in cooperative extension in the Department of Animal Science, at the University of California, Davis. 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).



### **Anita Oberbauer**

Dr. Anita Oberbauer is a Professor of Animal Science at the University of California, Davis and the Chair of the Department of Animal Science. Dr. Oberbauer studies growth and development focusing on skeletal growth and body composition as well as the genetic basis for animal health disorders.



### **Dr. 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.



### **Pramod Pandey**

Dr. Pandey is a UC cooperative extension specialist in the Department of Population Health and Reproduction in the School of Veterinary Medicine. His research interests include evaluating pathogenic microorganisms in rendering products, and assessing impacts of feedstock of dairy cows on animal waste pathogens.



### **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.



### **Issac Pessah**

Dr. Pessah is a professor and researcher in the Department of Molecular Biosciences in the School of Veterinary Medicine, and the Associate Dean for Research and Graduate Education Programs in the Dean's Office. Dr. Pessah's research focuses on a genetic condition which occurs in animals and people known as malignant hyperthermia and is triggered by certain drugs. His research on neurological development is influenced by interactions of toxins on both genetic and environmental factors leading to conditions such as autism.



### **Maurice Pitesky**

Dr. Pitesky is a UC cooperative extension specialist in the Department of Population Health and Reproduction in the School of Veterinary Medicine. His research focus is on the application of classic and spatial epidemiology in disease surveillance, food safety management, and other processes associate with poultry health, and the interface of science and policy with respect to food safety and public health.



### **Robert Poppenga**

Dr. Bob Poppenga is a veterinary toxicologist and Head of the Toxicology Section of the California Animal Health and Food Safety Laboratory System. He supervises 12 analytical chemists using state of the art analytical platforms and providing toxicology diagnostic serves to California animal owners, producers and state agencies. He has a particular interest in the effects of environmental contaminants on wildlife and chemical food safety.



### **Cheryl Scott**

Dr. Scott worked as a One Health veterinarian with the Western Institute for Food Safety and Security. She practices medicine always mindful of the human, animal, ecosystem connectedness. She currently focuses her clinical and educational endeavors on one health, wildlife research, food safety and security, rural health, and emergency and disaster medicine.





### **Claudia Sonder**

Dr. Sonder is Director of the Center for Equine Health. She graduated from the UC Davis School of Veterinary Medicine and was an equine practitioner in Napa, CA, for a number of years before returning to UC Davis in her new role. Dr. Sonder provides leadership and management of the Center and serves as a liaison between the School and the equine industry, including participating with government and nongovernment organizations and individuals in providing scientific and educational resources to solve industry problems.



### **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.



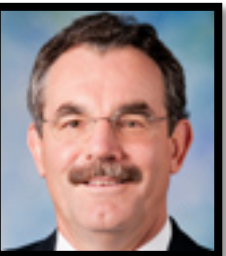
### **Carolyn Stull**

Dr. Carolyn Stull is a cooperative extension specialist in animal welfare in the Department of Population Health and Reproduction at the School of Veterinary Medicine. Her animal welfare program focuses on the well-being of agricultural animals. Her research projects have included such topics as road transportation management stress and the impact of severe weather events on dairy cattle.



### **Alison Van Eenennaam**

Dr. Alison Van Eenennaam is an animal biotechnology and genomics extension specialist in the Department of Animal Science at the University of California, Davis. Dr. Van Eenennaam is a leading expert on the use of biotechnologies in livestock production systems, and routinely speaks about the use of various biotechnologies including genetically modified organisms (GMOs) in animal agriculture.



### **David Wilson**

Dr. W. David Wilson, is an academic administrator and professor in the Department of Medicine and Epidemiology in the School of Veterinary Medicine. He served as Director of the Veterinary Medical Teaching Hospital. His research interests are in equine infectious diseases; clinical pharmacology; antimicrobial therapy; and vaccination and preventive medicine.



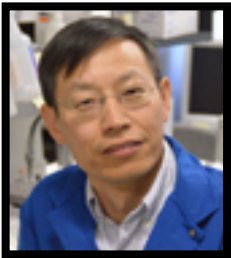
## Dennis Wilson

Dr. Dennis Wilson is a veterinarian specialist for the California Department of Food and Agriculture's Animal Branch. Dr. Wilson is the branch's liaison with California's universities. Additionally he participates in many of the Branch's functions from responding to emergencies to determining which diseases should be considered reportable for the State.



## David Wolking

Mr. David Wolking is the Senior Manager of Global Programs 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.



## Huaijun Zhou

Dr. Huaijun Zhou is Associate Professor, Chancellor's Fellow in Department of Animal Science, at University of California, Davis; and Director of USAID Feed the Future Innovation Lab for Genomics to Improve Poultry, and Director of Animal Systems Biology Analysis and Modeling Center. Dr. Zhou is a leading expert in functional genomics, avian immunology and bioinformatics.





**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