

NAU-UC Davis Graduate Education Conference on One Health

University of California, Davis
January 23 – February 10, 2017

Sponsored by: Nanjing Agricultural University

Hosted by:
University of California, Davis
Western Institute for Food Safety and Security



Conference Description

The Western Institute for Food Safety and Security, (WIFSS), hosted the NAU-UC Davis Graduate Education Conference on One Health at the University of California, Davis, for Nanjing Agricultural University (NAU) undergraduate students, January 23 – February 10, 2017. Nineteen NAU graduate students also participated in the conference, January 22-24. The conference provided an opportunity for NAU students who have an interest in attending graduate programs at UC Davis. The conference focused on graduate education, and highlighted One Health, which is the integrative effort of multiple disciplines working locally, nationally, and globally to attain optimal health for people, animals, and the environment.

The School of Veterinary Medicine (SVM), College of Agricultural and Environmental Sciences (CAES) and WIFSS have formed an educational exchange program with NAU in support of the establishment of a One Health Center for Food Safety and Animal Health at NAU. Research and education programs at the Center will focus on understanding and dissemination of information for food safety, water quality and animal health. Corresponding educational programs will promote progress towards safer, better quality food systems and healthy animals in China.

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
- Jenny Chen, Conference Assistant, WIFSS
- Heather Johnson, Educational Specialist, WIFSS
- Amanda Arens, Program Manager, Outreach and Training, WIFSS
- David Goldenberg, Food Safety and Security Training Coordinator, WIFSS
- Nicole Nisson, Program and Financial Assistant, WIFSS

WEEK ONE

MONDAY – JANUARY 23

Combined Undergraduate and Graduate Students

9:00 – 9:30	1041 Valley	Welcome & Opportunities for Graduate Education at UC Davis	Bennie Osburn, Western Institute for Food Safety and Security
9:30 – 9:45		BREAK	
9:45 – 10:30	1041 Valley	Introduction to the History and Culture of California	Kelly Nimtz, Director Emeritus for Development, School of Veterinary Medicine
10:30 – 10:40		BREAK	
10:40 – 10:50	1041 Valley	Opening Survey for Undergraduate Students	Chris Brunner, Western Institute for Food Safety and Security
10:50 – 11:30	1041 Valley	Discover Davis	Gregory Wlasiuk, Western Institute for Food Safety and Security
11:30 – 1:00	1041 Valley	LUNCH	
1:00 – 1:45	1041 Valley	Designing a Sustainable Disease Control Program for an Agricultural Crop: A Case Study of Fusarium Yellows on Celery	Lynn Epstein, Department of Plant Pathology
1:45 – 2:00		BREAK	
2:00 – 2:45	1041 Valley	Do-It-Yourself Guide to Disrupt Microbial Communities in Large and Small Ecosystems	Jorge Rodrigues, Land, Air & Water Resources
2:45	1041 Valley	DAILY REVIEW	Chaperones

TUESDAY – JANUARY 24

Combined Undergraduate and Graduate Students

9:00 – 9:10	3001 PES	Welcome	Maeli Melotto, Department of Plant Sciences Lee Ann Richmond, Department of Plant Sciences
9:10 – 9:40	3001 PES	Human Pathogens on Plants	Jeanine Montano, Department of Plant Sciences
9:40 – 10:20	3001 PES	Post-Harvest Center and Fruit Pathology	Barbara Blanco-Ulate, Department of Plant Sciences
10:20 – 10:30		BREAK	
10:30 – 11:10	3001 PES	Molecular Approaches for Improvement of Postharvest Life of Ornamental Plants	Cai-Zhong Jiang, US Department of Agriculture and Department of Plant Sciences
11:10 – 11:30	3001 PES	An Overview of the Plant Pathology Graduate Program	Gitta Coaker, Department of Plant Sciences
11:30 – 12:00		BREAK	
12:00 – 1:30	3001 PES	LUNCH	Catered lunch
1:30 – 1:45		Walk to Asmundson Hall	
1:45 – 3:45		Facility Tours	Graduate students tour Student Farms and Greenhouses Undergraduate students tour campus
3:45 – 4:00		Walk to PES	
4:00 – 4:20	242 Asmundson	Presentation of Certificates to Graduate Students	Bennie Osburn, Western Institute for Food Safety & Security

WEDNESDAY – JANUARY 25			
9:00 – 9:30	1041 Valley	WIFSS Overview	<i>Robert Atwill, Director, Western Institute for Food Safety and Security</i>
9:30 – 10:20	1041 Valley	Project-Based Learning for Food Safety; Discussion on Expectations of Group Presentations	<i>Heather Johnson, Western Institute for Food Safety and Security</i>
10:20 – 10:30		BREAK	
10:30 – 11:30	1041 Valley	DISCUSSION #1 - Introductions	<i>Group Leaders – Amanda Arens, David Goldenberg, Heather Johnson, WIFSS</i>
11:30 – 1:00	1041 Valley	LUNCH	
1:00 – 1:45	1041 Valley	Why Study Abroad at UC Davis?	<i>Jacob Hosier, Center for International Education, UC Davis Extension</i>
1:45 – 2:00		BREAK	
2:00 – 2:45	1041 Valley	One Health Overview	<i>Bennie Osburn, Western Institute for Food Safety and Security</i>
THURSDAY – JANUARY 26 Combined Undergraduate Students and UC Extension			
9:00 – 9:45	1020 Valley	California Dairy Industry A Brief View	<i>Ed DePeters, Department of Animal Sciences</i>
9:45 – 10:00		BREAK	
10:00 – 11:00	1020 Valley	Dairy Dynamic Management	<i>James Cullor, School of Veterinary Medicine</i>
11:00 – 11:15		BREAK	
11:15 – 12:00	1020 Valley	Immunity and Human Health	<i>Bethany Henrick, School of Medicine, and Food Science and Technology</i>
12:00 – 1:30		LUNCH	
1:30 – 2:15	1020 Valley	Graduate Education at UC Davis	<i>Xinbin Chen, School of Veterinary Medicine</i>
2:15 – 2:30		BREAK	
2:30 – 2:45	1020 Valley	Discussion of Trip to Tulare	<i>Bennie Osburn, Western Institute for Food Safety and Security</i>
2:45 – 3:20	1013 Valley 1011 Valley 1023 Valley	DISCUSSION #2 – One Health 101	<i>Group Leaders</i>
3:30 – 4:00	1020 Valley	Group Discussion	<i>Group Leaders</i>
4:00	1020 Valley	DAILY REVIEW	<i>Chaperones</i>
FRIDAY – JANUARY 27 – Chinese New Year Celebrations			
WEEK TWO			
MONDAY – JANUARY 30			
8:15	Parking Lot in Front of Valley Hall	Depart VP Lot 50	<i>Meet outside Valley</i>
10:30 – 12:00	1000 Davis St, Livingston	Overview and Tour of Foster Farms	<i>Bob O'Connor, CEO Foster Farms</i>
12:00 – 1:30	1000 Davis St, Livingston	LUNCH	<i>Foster Farms Conference Room</i>
1:30	1000 Davis St, Livingston	Board Bus	
3:30	1225 Hillman St, Tulare	Check Into Hotel	<i>Fairfield Inn & Suites</i>
6:00 – 8:00	Tulare	Group Dinner	<i>To Be Announced</i>

TUESDAY – JANUARY 31			
8:15	1225 Hillman St, Tulare	Board Bus	Fairfield Inn & Suites
8:30	18830 Road 112, Tulare	Arrive VMTRC	Veterinary Medicine Teaching & Research Center
8:30 – 9:30	VMTRC	Overview of VMTRC	Terry Lehenbauer, Veterinary Medicine Teaching & Research Center
9:30 – 12:00	Tulare	Tour of Dairy	TBD
12:00 – 1:15	VMTRC	LUNCH	Catered at VMTRC
1:15 – 1:45	VMTRC	Tour of Milk Quality Lab	Kathy Glenn, Veterinary Medicine Teaching & Research Center
1:45 – 2:00		BREAK	
2:00 – 2:30	CAHFS	Tour California Animal Health and Food Safety Laboratory	John Adaska, California Animal Health and Food Safety Laboratory
2:45	VMTRC	Board Bus	
3:00	Tulare	Arrive Hotel	Fairfield Inn & Suites
3:00 – 6:00		Free Time	
6:00 – 8:00	Tulare	DINNER	To Be Announced
WEDNESDAY – FEBRUARY 1			
9:15	1225 Hillman St, Tulare	Board Bus	Fairfield Inn & Suites
9:45 – 12:00	501 S. Alta Ave, Dinuba	Ruiz Foods	Gina Flores, Sr. Director, Quality Assurance
12:00 – 1:00	Ruiz Foods	LUNCH	
1:00		Board Bus Ruiz Foods	
4:00	Davis	Arrive Davis Campus	VP Lot 51
THURSDAY – FEBRUARY 2			
9:00 – 9:45	1041 Valley	Building Videos and Marketing One Health	Emily Kunz, Western Institute for Food Safety and Security Michael Luo, Nanjing Agricultural University
9:45 – 10:00		BREAK	
10:00 – 10:45	1041 Valley	Soils and Food Safety: What's the Connection?	Randy Southard, Department of Land, Air and Water Resources
10:45 – 11:00		BREAK	
11:00 – 11:45	1041 Valley	Health, Food Safety, and Development at the Human-Animal Interface: The HALI Project in Tanzania	David Wolking, One Health Institute
11:45 - 1:00	1041 Valley	LUNCH	
1:00 – 1:45	1041 Valley	Understanding and Manipulating Phenolic and Carotenoid Pathways for Crop Improvement	Li Tian, Department of Plant Sciences
1:45 - 2:00	1041 Valley	BREAK	
2:00 – 2:45		Resume Writing	Emily Kunz, Greg Wlasiuk, Western Institute for Food Safety & Security Sara Garcia, School of Veterinary Medicine
2:45 – 3:15	1013 Valley 2010 Valley 2011 Valley	DISCUSSION # 3 – Reflections of Field Trip	Group Leaders
3:15	1041 Valley	DAILY REVIEW	Chaperones

FRIDAY – FEBRUARY 3

9:00 – 10:30	1023 Valley	Graduate Programs Fair with Graduate Program Coordinators	Judy Erwin – Pharmacology & Toxicology and Agricultural & Environmental Chemistry Nicole Rabaud – Food Science & Technology Jessica Padilla – Departments of Entomology & Nematology; and Plant Pathology Joanna Chiu – Department of Entomology & Nematology
10:45 – 11:45	CAHFS	Overview of the California Animal Health and Food Safety Laboratory System, and tour of CAHFS Labs	Robert Poppenga, CAHFS Linda Aston, CAHFS
12:00 – 1:00	1041 Valley	LUNCH TIME DISCUSSION	Alice Wang, Veterinary Student Lydia Yu, Veterinary Student Kerry Ke, Graduate Student Yee Huang, Graduate Student Cindy Jin, Graduate Student
1:00	1041 Valley	DAILY REVIEW	Chaperones

WEEK THREE**MONDAY – FEBRUARY 6**

9:30 – 10:15	1041 Valley	Why and How we Test Irrigation Water	Melissa Partyka, Western Institute for Food Safety and Security
10:15 – 11:30	On Campus	Gathering Water Samples at Putah Creek	Ronald Bond, Western Institute for Food Safety and Security
11:30 – 1:00	1041 Valley	LUNCH	
1:00 – 2:00	4 th Floor VM3B	Atwill Lab –Testing Water Samples	Ronald Bond, Western Institute for Food Safety and Security
2:00 - 2:15		BREAK	
2:15 – 3:00	1010 Valley 1013 Valley 2010 Valley	DISCUSSION #4 - Preparing the Final Presentation	Group Leaders
3:15	1041 Valley	DAILY REVIEW	Chaperones

TUESDAY – FEBRUARY 7

9:00 – 9:45	1041 Valley	Feed-based Technologies to Improve Weaned Pig Health and Production	Yanhong Liu, Department of Animal Science
9:45 – 10:00		BREAK	
10:00 – 10:45	1041 Valley	Studies of Antibiotic Resistance of Enteric Bacteria in Dairy Farms in California	Xunde Li, Western Institute for Food Safety and Security
10:45 – 11:00		BREAK	
11:00 – 11:45	1041 Valley	Overview of the Air Quality Program	Kent Pinkerton, School of Medicine and School of Veterinary Medicine
11:45 – 1:30	1041 Valley	LUNCH	
1:30 – 2:15	1041 Valley	Dairy Food Safety and Antibiotic Use	Michael Payne, Western Institute for Food Safety and Security
2:15 – 3:00	1041 Valley	Group Work on Presentations	Chaperones

WEDNESDAY – FEBRUARY 8			
9:00 – 9:45	1041 Valley	Saint Patrick's Day Revenge	David Goldenberg, Western Institute for Food Safety and Security
9:45 – 10:00		BREAK	
10:00 – 10:45	1041 Valley	Veterinary Toxicology	Birgit Puschner, School of Veterinary Medicine
10:45 – 11:00		BREAK	
11:00 – 12:00	VMTH	Tour of William R. Pritchard Veterinary Medical Teaching Hospital	Bennie Osburn, Western Institute for Food Safety and Security
12:00 – 1:30	1041 Valley	LUNCH	
1:30 – 2:30	1041 Valley	Work on Presentations	Chaperones
THURSDAY – FEBRUARY 9			
9:00 – 9:45	1041 Valley	Assessment of Zoonotic Risks in Aquaponic Lettuce Production: A Prototype for Experimental Greenhouse Trials	Elizabeth Antaki, Western Center for Food Safety
10:00 – 10:20	1041 Valley	Closing Survey	Peter Hui, Nanjing Agricultural University
10:30 – 12:00	CABA	Tour Center for Aquatic Biology and Aquaculture (CABA) Facility	Linda Deanovic, Center for Aquatic Biology and Aquaculture
12:00 – 1:00	1041 Valley	LUNCH	
1:00 – 2:00	VMTH	Tour of William R. Pritchard Veterinary Medical Teaching Hospital	Bennie Osburn, Western Institute for Food Safety and Security Lauren Gentle, School of Veterinary Medicine, Class of 2020
2:00 – 3:00	1041 Valley	Final Preparations for Presentations	Chaperones
FRIDAY – FEBRUARY 10			
9:00 – 9:30	1041 Valley	Closing Remarks	Bennie Osburn, Western Institute for Food Safety and Security
9:30 – 9:45		BREAK	
9:45 – 10:15	1041 Valley	Presentation – Q&A	Group One
10:15 – 10:45	1041 Valley	Presentation – Q&A	Group Two
10:45 – 11:00		BREAK	
11:00 – 11:30	1041 Valley	Presentation – Q&A	Group Three
12:00 – 1:30	1023 Valley	LUNCH	Pizza Catered
1:30 – 1:45	Outside Valley	GROUP PHOTO	Don Preisler, Photographer, School of Veterinary Medicine
1:45 – 2:30	1041 Valley	Presentation of Certificates	Bennie Osburn, Western Institute for Food Safety and Security
THANK YOU!			



John Adaska

Dr. John Adaska is chief of the California Animal Health and Food Safety Laboratory System's (CAHFS) Tulare Branch. Adaska has served veterinarians, dairy farmers, and animal health stakeholders for more than 20 years. The Tulare facility is one of four laboratories within CAHFS, headquartered at UC Davis and operated for the state by the School of Veterinary Medicine to protect animal health and performance, and safeguard public health and the food supply.



Elizabeth Antaki

Dr. Elizabeth Antaki received her PhD in Comparative Pathology, emphasizing in microbial interactions and how this affects the environmental shedding of the pathogen. She is currently studying the food safety aspects of leafy greens grown in recirculating aquaponic systems (RAS), particularly with regards to pathogen retention and produce contamination.



Amanda Arens

Dr. Amanda 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.



Robert Atwill

Dr. Robert 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.



Barbara Blanco-Ulate

Dr. Ulate-Blanco, is an assistant professor in the Department of Plant Sciences with the College of Agricultural and Environmental Sciences at UC Davis. Her research focus is on postharvest physiology, with an emphasis on fruit ripening, fruit softening, fruit quality, fruit-pathogen interactions, postharvest pathogens, systems biology, and biotechnology.



Ronald Bond

Ronald Bond, a water quality technician with the Atwill Water and Foodborne Zoonotic Disease Laboratory, with the Western Institute for Food Safety and Security, (WIFSS), is interested in researching the correlation of indicator bacteria on freshwater systems and the ways these bacteria signify the presence of pathogenic bacteria. I have been interested in new methods of looking at agricultural water as a point source and the ways to reduce the risk of pathogen transport out of these systems.



Cai-Zhong Jiang

Dr. Cai-Zhong Jian is a research plant physiologist in the College of Biological Sciences in the US Department of Agriculture and Plant Sciences. His research focuses on understanding the molecular basis of plant senescence and abscission, and addressing how environmental factors such as water, temperature and diseases, effect on the performance of ornamental crops.



Cesar Cervantes

Mr. Cervantes earned his BS in Graphic Design from California State University, Sacramento. Having worked for several design studios throughout the Sacramento area, Cesar has experience in print, web, and video design as well as front-end web development. Cesar is most interested in discovering how human-centered design thinking can lead to creating innovative, effective, and sustainable solutions that will resonate with the audience and encourage positive change.



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.



Gitta Coaker

Dr. Gitta Coaker is an Associate Professor of Plant Pathology at the University of California, Davis. Dr. Coaker's research interests are in understanding the interaction between bacterial pathogens and plants at a biochemical level. Her research group studies how the plant innate immune system can actively recognize and respond to pathogenic microorganisms using tomato, citrus, and Arabidopsis as models.



James Cullor

Dr. Jim Cullor, a professor emeritus 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.



Lynn Epstein

Dr. Lynn Epstein is a professor in the Department of Plant Pathology, with UC Davis College of Agricultural and Environmental Sciences. The goal of the research in the Epstein lab is to support the agricultural community, particularly in sustainable and organic agriculture, with research that will lead to the development of sustainable disease-control strategies. They focus on celery diseases and on ascomycetous (or "imperfect") fungi, including *Fusarium oxysporum*, *Fusarium solani*, *Colletotrichum spp.*, *Verticillium dahliae* and *Neurospora crassa*.



Sara Garcia

Ms. Sara Garcia earned her BS in Genetics at UC Davis and worked in murine genetics following graduation. Sara is currently a Ph.D. Candidate the Graduate Group of Integrative Pathobiology at UC Davis and works in the Dairy Food Safety Laboratory. She has worked in both academia and industry and has expertise in food safety, microbiology and molecular genetics.



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.



Bethany Henrick

Dr. Bethany Henrick is Associate Director of the Foods For Health Institute at the University of California, Davis. In this role, Dr. Henrick is the key investigator in multiple international and interdisciplinary research projects that further our understanding of how food affects human health. Together with top researchers from around the world, the institute engages in cutting edge research investigating factors in human milk and food that are beneficial to overall health.



Jacob Hosier

Mr. Jacob Hosier is the academic director of the Center for International Education's University Programs unit at UC Davis Extension. Jake is an Aggie himself, receiving a B.A. in Religious Studies at UC Davis and an M.A. in Liberal Studies from the University of North Carolina. Jake's work at UC Davis Extension involves the development and implementation of study and research programs for international students. These programs include the Global Study Program, the GREAT Summer Research Program, and the UC Davis Summer Start program.



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.



Emily Kunz

Ms. Emily Kunz earned her BS in Visual Communications at Brigham Young University-Idaho, and her MFA in Integrated Design from the University of Baltimore. With expertise in print, web, and video, she has worked as an in-house graphic designer, a freelance designer, and an educator for a variety of companies, businesses, and educational institutions.



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.



Yanhong Liu

Dr. Yanhong Liu is assistant professor in the Department of Animal Science at the University of California, Davis. Her research evaluates dietary effects on pig health by investigating impacts of products now available to the industry and developing new approaches for the industry. The long term goal of the research taking place in her Comparative Animal Nutrition and Physiology Laboratory is to help the animal industry deploy feed-based health technologies to improve animal health and increase the production of safe and nutritious food worldwide.



Maeli Melotto

Dr. Maeli Melotto, is an assistant professor in the Department of Plant Sciences, specializing in plant-pathogen interactions. The Melotto lab is focused on understanding the close interaction between plants and human pathogens at the molecular level. The researchers seek to know how the plant immune system works to fight against pathogen infection and how pathogens employ virulence strategies to overcome plant defenses.



Jeanine Montano

Jeanine is a plant pathology PhD student in the Department of Plant Sciences with research focus on mechanisms of Salmonella colonization of lettuce leaves.



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.



Bennie Osburn

Dr. Bennie Osburn is Director of Outreach and Training at the Western Institute for Food Safety and Security. He is Dean Emertius 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.



Michael 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.



Melissa Partyka

Melissa Partyka is a doctoral candidate in the Graduate Group in Ecology with a BS in marine biology and an MS in coastal ecology. She is interested in the spatial dynamics and connectivity of marine microbial communities and waterborne pathogens in aquatic and marine environments. She is co-advised by Dr. Rob Atwill.



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.



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.



Birgit Puschner

Dr. Birgit Puschner, Professor, and Chair, of the Department of Molecular Biosciences, School of Veterinary Medicine, focuses her research on diagnostic veterinary toxicology; poisonous plants; algal toxins; and natural toxins.



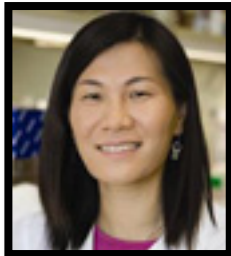
Jorge Rodrigues

Dr. Jorge Rodrigues, a professor in the Department of Land, Air and Water Resources Soil has research interests in microbiology, biological regulation of biogeochemical cycles, microbial diversity, land use change, tropical forest conservation and ecology.



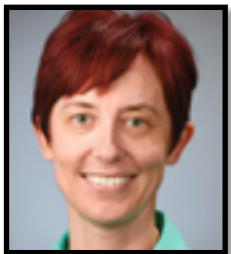
Randy Southard

Dr. Randy Southard is Professor of soil science and genesis/morphologist 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.



Li Tian

Dr. Li Tian, a professor in the Department of Plant Sciences, UC Davis College of Biological Sciences, has research interests in phytonutrient biochemistry and physiology; Biosynthesis, accumulation and function of carotenoids and polyphenols in plants; Targeted improvement of crop phytonutrient composition and content for enhanced nutritional and medicinal values.



Deniece Williams

Dr. Deniece Williams teaches the DVM professional curriculum and graduate clinical training programs at the VMTRC. She works with faculty, residents and students to facilitate team development and research in the areas of Dairy Production Medicine and Herd Health. She provides clinical veterinary herd health and reproductive services. Dr. Williams' research interests include neonatal calf disease, bovine respiratory disease (BRD), mastitis and epidemiology of infectious disease in dairy cattle.



Gregory Wlasiuk

Mr. Greg Wlasiuk earned his BA and MA in English from UC Davis. While at Davis he taught undergraduate literature and creative writing courses. After graduate school he learned graphic design, course design, and online learning practices during his two years at UC Davis Extension.



David Wolking

Mr. David Wolking is the Senior Manager for Global Programs at the UC Davis One Health Institute and Global 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.

Staff Support



Chris Brunner
Public Relations Officer, WIFSS



Jenny Chen
Public Relations Assistant, WIFSS



Nicole Nisson
Program and Financial Assistant,
WIFSS



Lee Ann Richmond
Facility Manager, Department of
Plant Sciences

Graduate Program Coordinators



Joanna Chiu
Associate Professor and Vice-Chair
Department of Entomology and
Nematology, and Chair,
Admissions Committees,
Entomology and BMCDB
Graduate Groups

Judy Erwin
Graduate Program Coordinator, Pharmacology &
Toxicology and Agricultural & Environmental Chemistry



Jessica Padilla
Graduate Program Coordinator,
Departments of Entomology &
Nematology, and Plant Pathology

Nicole Rabaud
Graduate Program Coordinator, Food Science &
Technology