FOOD SECURITY
understanding the role of animal health & well-being

An AVMA Global Summit
February 9-11, 2017
Grand Hyatt—Washington, DC
MEETING INFORMATION

Registration
Location: Constitution Foyer, Constitution Level 3B
Hours: February 9, 2017: 11:30 am-5:00 pm
February 10, 2017: 7:30 am-5:00 pm
February 11, 2017: 7:30 am-10 am

Presentations, Meals, and Networking Reception
• All presentations and interactive discussions will take place in Constitution AB, Constitution Level 3B.
• Meals will be served buffet style in the Constitution Foyer, with dining in Constitution AB.
• The Thursday evening Networking Reception will take place in Declaration AB, Declaration Level 1B.

Internet Access
• Complimentary Wi-Fi is provided in public areas of the hotel and in guest rooms.
• Internet access is not available in Constitution AB.

WELCOME

Welcome to the AVMA Global Food Security Summit

Two years ago, the AVMA Committee on International Veterinary Affairs (CIVA) held a strategic discussion on how the AVMA could contribute to solving the global food production challenges of the future. Some 800 million people in the world do not have enough food to lead a healthy, active life. That’s about one in nine people on earth. In the United States, approximately 42 million Americans live in food-insecure households, including more than 13 million children. The Committee wanted to promote the value of animal source foods as necessary nutrition for healthy people in all parts of the world, as well as explore the opportunities for members of the AVMA and Student AVMA to provide their expertise in a variety of venues and to the many organizations currently engaged in developing food security solutions that may not be fully aware of the skills and knowledge veterinarians bring to the table.

It is with great pride and anticipation that we are now able to welcome you to this AVMA Global Summit titled Food Security—Understanding the Role of Animal Health & Well-Being. A special thanks goes out to the members of the Summit Organizing Committee, AVMA staff members, and Dr. Ken Andrews, the Summit facilitator. Ken’s preparation and facilitation will ensure that this a productive meeting with actionable outcomes. We also extend thanks to Land O’Lakes Inc., Merck Animal Health, and Elanco for their financial support of the Summit. These partners are heavily committed to providing solutions to improve global food security.

And of course we extend our sincere gratitude and thanks to the amazing cadre of speakers who will be providing stimulating and informative presentations that will serve as jumping-off points for the interactive break-out discussions—all of which will help us develop the actionable outcomes of this Summit. Thanks to all of you, too, who traveled here to be involved in this important conference. Your active participation is essential to the Summit’s success.

In conclusion, then, I am extremely proud that the AVMA has supported this initiative first dreamed of by the CIVA two years ago. The AVMA recognizes the importance of food production veterinarians to the veterinary medical profession and animal agriculture, and the essential role veterinarians play in the production of a secure, sustainable, safe, and nutritious food supply for all people. Moreover, the AVMA supports the relationships that are built through Summits such as this one—relationships that will expand opportunities for our members to contribute in reducing the number of people suffering from hunger, malnutrition, and food insecurity in this country and around the world.

I hope you enjoy the Summit, from its presentations, to its audience-interactive discussions and its many networking opportunities. Welcome!

René A. Carlson, DVM
Chair of the Summit Organizing Committee
# Schedule

**Thursday Feb 9, 2017 - Session 1**

1:00 PM  
Welcome to the AVMA Global Food Security Summit  
Dr. Thomas Meyer, AVMA President  
Dr. René Carlson, Chair,  
Summit Organizing Committee  
& AVMA Director of International Affairs  
Dr. Ken Andrews, Summit Facilitator,  
High Impact Facilitation, Inc.

1:15 PM  
Plenary Presentation - Global Food Security and the Role that Animal Source Foods Play  
Dr. Evan Fraser, Canada Research Chair in Global Food Security, University of Guelph

2:35 PM  
Networking Break

2:55 PM  
Interactive Table-Top Discussions: Responding to Challenge Questions  
Dr. Ken Andrews & all Summit participants

4:15 PM  
Report of Interactive Discussions  
Dr. Ken Andrews & table facilitators

5:00 PM  
Conclusion of Session 1

5:30 - 7:00 PM  
Networking Reception  
Hors d'oeuvres & cash bar for all Summit participants (guests welcome with ticket)  
Declaration AB, Declaration Level 1B

**Friday Feb 10, 2017 - Session 2**

7:30 AM  
Continental Breakfast

8:00 AM  
Welcome Back!  
Dr. Ken Andrews, Summit Facilitator

8:10 AM  
Stimulus Presentation—How do Animal Source Foods Contribute to a Nutritious Food Supply for Humans Worldwide?  
Dr. Lora Iannotti, Washington University - St. Louis

8:40 AM  
Stimulus Presentation—How can Veterinarians Improve Animal Management, Health and Well-Being to help Mitigate the Environmental Challenges of Livestock Production?  
Dr. Delia Grace, International Livestock Research Institute (ILRI)

9:10 AM  
Stimulus Presentation—How can Veterinarians Improve the Economic Outcomes of Livestock Production?  
Dr. Jonathon Rushton, University of Liverpool

9:40 AM  
Networking Break

10:05 AM  
Interactive Table-Top Discussions: Responding to Challenge Questions  
Dr. Ken Andrews & all Summit participants

11:15 AM  
Report of Interactive Discussions  
Dr. Ken Andrews & table facilitators

12:00 PM  
Conclusion of Session 2 & Networking Lunch

**Friday Feb 10, 2017 - Session 3**

1:00 PM  
Welcome Back!  
Dr. Ken Andrews, Summit Facilitator

1:10 PM  
Panel Presentation & Discussion: Policy, Field Work, Research & Funding – Competencies for Success  
Mr. Pierre Ferrari, Heifer International  
Dr. Tom Graham, Veterinarians Without Borders US  
LTC (Dr.) Paul Hollier, Center for Global Health Engagement (CGHE), Defense Health Agency Veterinary Services  
Dr. David Sherman, World Organisation for Animal Health (OIE)  
Dr. Samuel Thevasagayam, Bill and Melinda Gates Foundation

2:30 PM  
Networking break

2:50 PM  
Interactive Table-Top Discussions: Responding to Challenge Questions  
Dr. Ken Andrews & all Summit participants

4:15 PM  
Report of Interactive Discussions  
Dr. Ken Andrews & table facilitators

5:00 PM  
Conclusion of Session 3

6:00 - 8:30 PM  
Networking Dinner  
Buffet style & cash bar for all Summit participants (guests welcome with ticket)  
Declaration AB, with dining in Declaration Level 1B

**Saturday Feb 11, 2017 - Session 4**

7:30 AM  
Continental Breakfast

8:00 AM  
Welcome Back!  
Dr. Ken Andrews, Summit Facilitator

8:10 AM  
Success Stories  
Dr. Michael Lairmore, University of California-Davis

8:40 AM  
Success Stories  
Dr. David Sherman, World Organisation for Animal Health (OIE)

9:10 AM  
Success Stories  
Dr. Jennie Lane, Land O'Lakes, Inc.

9:40 AM  
Networking Break

10:10 AM  
Interactive Table-Top Discussions: Responding to Challenge Questions  
Dr. Ken Andrews & all Summit participants

11:10 AM  
Report of Interactive Discussions  
Dr. Ken Andrews & table facilitators

11:45 AM  
Next Steps & Wrap Up  
Dr. Beth Sabin, AVMA Associate Director, International and Diversity Initiatives  
Dr. René Carlson, Chair,  
Summit Organizing Committee & AVMA Director of International Affairs

12:00 PM  
Summit Adjournment and Box Lunches
**SPEAKERS**

Mr. Pierre Ferrari

Mr. Pierre Ferrari is President and CEO of Heifer International, having joined the organization in 2010 with more than 40 years of business experience. Pierre is leading Heifer to scale its programs and accelerate rural market growth to help 4 million families achieve living incomes by 2020. Heifer is using its proven community development approach and livestock expertise to help farmers create market demand to help lift them out of poverty. Mr. Ferrari worked for many years at Coca-Cola USA, before deciding in 1995 to focus his energies and business acumen on social issues. He is using his skills and aptitude to invest in and partner with people living in poverty to help them achieve self-sufficiency, independence and health—goals that directly align with Heifer’s empowerment-oriented mission. Ferrari is a current board member of the Small Enterprise Assistance Fund and Global Impact. He is also a former chair and current board member of Ben and Jerry’s Homemade Ice Cream.

Dr. Evan Fraser

Dr. Evan Fraser started thinking about agriculture and food systems while spending summers working on his grandfather’s fruit farm in Niagara. This experience led him to conclude that it is easier to write and talk about farming than to try to make a living on it, so he passed on inheriting the family farm and opted for graduate school instead. He completed degrees in forestry, anthropology and agriculture at the University of British Columbia and University of Toronto. He is the author of over 75 scientific papers or book chapters that address farming and climate change and has written for news organizations such as the Guardian, Globe and Mail, and Ottawa Citizen. Evan has also written two non-fiction books about food and food security as well as a graphic novel that depicts a global food crisis hitting North America in the 2020s. His web video series on “feeding nine billion” has been watched over 280,000 times. Currently, Dr. Fraser is Director of the Food Institute and a professor of Geography at the University of Guelph, where he holds the Canada Research Chair in Global Food Security. He is an associate of the Guelph Food Institute, a Fellow of the Pierre Elliot Trudeau Foundation, a Fellow of the Royal Canadian Geography Society, and a Member of the Royal Society of Canada’s college of new scholars.

Dr. Delia Grace

Dr. Delia Grace is an epidemiologist and veterinarian with more than 20 years’ experience in developing countries. She graduated and worked at several leading universities including University College Dublin, Edinburgh University, the Free University of Berlin, and Cornell University. She currently leads research on zoonoses and foodborne disease at the International Livestock Research Institute based in Nairobi, Kenya. Her research interests include food safety, emerging diseases, gender studies, and animal welfare. Her career has spanned the private sector, field-level community development and aid management, as well as research. She has lived and worked in Asia, west and east Africa and authored or co-authored more than 100 peer-reviewed publications as well as training courses, briefs, films, articles and blog posts. Dr. Grace’s research program focuses on the design and promotion of risk-based approaches to food safety in livestock products in sub-Saharan Africa and South Asia. She is also a key player on ILRI’s Ecohealth/One Health approach to the control of zoonotic emerging infectious diseases and agriculture-associated antimicrobial resistance.

Dr. Thomas Graham

Dr. Thomas Graham is President and Chief Executive Officer for Veterinarians Without Borders. He has worked in private sector cattle medicine, surgery, and herd health for the past 30 years, implementing population health programs and emergency medicine on dairy and beef herds with particular emphasis in reproduction management, mastitis control, nutrition, and calf rearing. He has designed and/or implemented vaccine, medical product, and nutritional intervention trials in beef and dairy cattle. Dr Graham’s research interests have focused on examination of nutritional factors underlying abnormal growth and fetal development and examination of relationships between biomarkers of inflammation and zinc status in humans and cattle on aberrations of infant and fetal growth or mortality. Dr. Graham has been committed to veterinary education and training throughout his career and is working with VWB to promote education capacity building in the United States and internationally. He has sat on several committees reviewing program development for veterinary curricula, standards for the national board examination, as well as service committees.
LTC (Dr.) Paul Hollier

LTC (Dr.) Paul Hollier earned his Doctor of Veterinary Medicine degree from the Louisiana State University School of Veterinary Medicine and his Master of Public Health from the Johns Hopkins Bloomberg School of Public Health. He is board-certified by the American College of Veterinary Preventive Medicine. LTC Hollier currently serves as the Chief of Global Veterinary Engagement at the US Defense Health Agency—Veterinary Services. His responsibilities there encompass the strategic integration of Department of Defense veterinary services into Global Health Engagement. LTC Hollier has extensive experience with veterinary support to stability operations and developing and teaching courses at the Uniformed Services University of the Health Sciences and Center for Global Health Engagement.

Dr. Lora Iannotti

Dr. Lora Iannotti has expertise in the areas of young child nutrition and nutrient deficiencies related to poverty and infectious diseases. Her research focuses on epidemiological and interventional studies in resource-poor populations. She is currently Associate Professor at the Brown School of Social Work, Washington University—St. Louis, and chair of the Global Health Specialization within the MPH program. Dr. Iannotti is also actively engaged in building the global health curriculum for the Brown School and Washington University more broadly through the Institute for Public Health. She is presently working in Haiti, Ecuador, and East Africa, where she collaborates with local partners to test innovative, transdisciplinary solutions, using animal source foods, for preventing childhood malnutrition. Dr. Iannotti received her doctorate from the Johns Hopkins University Bloomberg School of Public Health, and a Master of Arts degree in Foreign Affairs from the University of Virginia. Prior to pursuing her PhD, she worked for over ten years with UN agencies and non-governmental organizations on nutrition and food security programming and policy.

Dr. Michael Lairmore

Dr. Michael Lairmore is Dean of the School of Veterinary Medicine at the University of California-Davis. Dean Lairmore is committed to finding new ways for the faculty, residents, students and staff of the UC Davis School of Veterinary Medicine to contribute to the health of animals and people while being good stewards of the environment and the economy. 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. Dean Lairmore earned his Doctor of Veterinary Medicine degree from the University of Missouri before working as a dairy and small animal veterinarian. Following private practice, he completed a residency and PhD program in experimental pathology at Colorado State University. He is board certified in veterinary anatomic pathology as well as veterinary virology and immunology. He is a member of numerous prestigious national boards and committees and is one of the few veterinarians elected as a Member of the National Academy of Medicine. He is also a Fellow in the American Academy of Microbiology and the American Association for the Advancement of Sciences, and has received numerous teaching and research awards throughout his career. Dean Lairmore’s research has provided significant breakthroughs in the biology of human retroviruses and the understanding of viral-associated carcinogenesis. He has authored or co-authored 190 scientific publications.

Dr. Jennie Lane

Dr. Jennie Lane is a Leland Hunger Fellow placed with Land O’Lakes International Development as an Animal Health and Livelihoods Technical Advisor. She recently relocated to Washington, DC after working for a year in Malawi with a USAID funded Livestock for Resilience program. Jennie’s current research focuses on better understanding the pathways and impact livestock programs have on food security and household nutrition and the role of financial services in livestock development programming. A native of upstate New York, Jennie graduated from Michigan State University College of Veterinary Medicine in 2007 and spent six years practicing equine and small animal medicine in Pennsylvania and Delaware. Her work with working equines as a veterinarian in developing countries around the world, including the Dominican Republic, India, Peru, Mexico, Nicaragua, Montserrat, and Costa Rica, inspired her interest in better understanding the relationships between livestock health, livelihoods, and human health and nutrition. In May 2014, she received a Master of Public Health (MPH) degree with a global health concentration from the University of California, Berkeley. Jennie is particularly interested in sustainable and collaborative interventions to improve livelihoods of the world’s poorest small holder farmers, and has a special love for working equines.
**SPEAKERS CONT.**

**Dr. Jonathan Rushton**

Dr. Jonathan Rushton is an agricultural economist who specializes in the economics of animal health and livestock production and food systems—interests that grew from living and working on the family dairy farm. He is currently involved in global research on One Health and food systems, and has 25 years of international experience in livestock production and the control of animal diseases in South America, Africa, and Asia. His principal research interests include disease impact assessment, the use of food systems analysis to understand One Health problems, and the economic analysis of health interventions. Jonathon was the professor in animal health economics at the Royal Veterinary College, held the Norbrook endowed chair on veterinary business management, and was a founding member of the Leverhulme Centre for Integrative Research on Agriculture and Health. In October 2016 he joined the Institute of Infection and Global Health at the University of Liverpool to take the NB professorship in the Economics of Animal Health and Food Systems. He will be a part of the NB project (www.nbresearch.org.uk) and continue to research safe and sustainable food systems. He is also adjunct Professor in the School of Behavioural, Cognitive & Social Sciences of the University of New England, Australia.

**Dr. David Sherman**

Dr. David Sherman received his veterinary degree from the Ohio State University in 1977 and MS degree from the University of Minnesota in 1979. He is a diplomate of the American College of Veterinary Internal Medicine, board certified in large animal medicine. Dr. Sherman taught large animal medicine at the University of Minnesota and Tufts University School of Veterinary Medicine. At Tufts, he was also Head of the Section of International Veterinary Medicine and co-creator and Director of the Center for Conservation Medicine. Dr. Sherman is co-author with Dr. Mary Smith of the textbook Goat Medicine and author of Tending Animals in the Global Village: A Guide to International Veterinary Medicine. From 2004-2009, Dr. Sherman worked in Kabul, Afghanistan managing a USAID-funded, nation-wide program to restore basic veterinary service delivery to livestock owners. He has done veterinary consulting in over 40 countries for a variety of international agencies including the OIE, World Bank and FAO. He currently works for the World Organisation for Animal Health (OIE) in Paris, where he is the Coordinator of OIE’s Veterinary Legislation Support Programme. Dr. Sherman is pleased to be involved in the Global Eradication Programme for peste des petit ruminants (PPR), which was launched by the OIE and FAO in 2016 with the goal to eliminate PPR from the planet by 2030; specifically, he serves as the OIE Focal Point to the OIE/FAO PPR Global Secretariat in Rome.

**Dr. Samuel Thevasagayam**

Dr. Samuel Thevasagayam leads the Livestock Initiative within Agriculture Development at the Bill and Melinda Gates Foundation. He oversees implementation of the foundation’s strategy in animal health, livestock genetics and livestock production and markets. Prior to joining the foundation in 2012, Sam spent significant time in the pharmaceutical industry, where he held various roles in clinical development, regulatory affairs, business development and external research alliances. Previously, Sam was the foundation director of R&D for Global Alliances for Livestock Veterinary Medicine, a not-for-profit animal health organization. He spent his early career teaching and practicing companion animal internal medicine before spending five years in veterinary virology research at the Institute for Animal Health—Pirbright Institute. Sam holds a degree in Veterinary Medicine and Surgery from the University of Peradeniya, Sri Lanka; a PhD in veterinary virology for his research on foot-and-mouth disease virus at the Pirbright Institute, UK; and an MBA from the University of Oxford, Said Business School.

**AVMA Global Food Security Summit Organizing Committee**

Dr. René Carlson, Chair – AVMA Director of International Affairs & Chair of the Committee on International Veterinary Affairs

Dr. Ken Andrews, Facilitator – High Impact Facilitation, Inc

Dr. Garry Adams - Senior Professor, Department of Veterinary Pathobiology, Veterinary Medicine and Biomedical Sciences, Texas A&M University; immediate past member of the AVMA Committee on International Veterinary Affairs

Dr. Theresa Bernardo - IDEXX Chair in Emerging Technologies and Bond Centered Animal Healthcare at University of Guelph; member of the AVMA Committee on International Veterinary Affairs

Dr. Brian Greenberg - Independent Consultant; formerly Director of Sustainable Development at InterAction

Dr. John Mahoney - Director, Veterinary Services, Purina Animal Nutrition LLC; member of the AVMA Animal Agriculture Liaison Committee

Dr. Shannon Mesenhowski - Program Officer, Value Chain Specialist on the Livestock/Agriculture Development Team, Bill and Melinda Gates Foundation; member of the AVMA Committee on International Veterinary Affairs

Dr. Chet Rawson - AVMA Board of Directors, District VI; immediate past member of the AVMA Committee on International Veterinary Affairs

Dr. Joyce Turk - Independent Consultant; retired Senior Livestock Advisor for USAID

Dr. Terry Wollen - Livestock Advisor; retired from Heifer International and the Office of US Foreign Disaster Assistance/USAID

**AVMA STAFF**

Dr. Beth Sakin, Associate Director, International and Diversity Initiatives

Ms. Lori Kantner, Administrative Assistant

Ms. Erika Schnure, Meeting Planning and Exhibits Specialist

**YOUR FEEDBACK MATTERS!**

PLEASE COMPLETE THE GLOBAL FOOD SECURITY SUMMIT (GFSS) ATTENDEE SURVEY
THANK YOU
FOR ATTENDING