



Pennsylvania
Department of Agriculture



ONE HEALTH UNLEASHED

Connecting People, Animals, Plants and
Ecosystems for a Healthier Future.

Registered attendees will be eligible for
five Registry of Approved Continuing
Education (RACE) credits.

June 25-27, 2025

Farm Show Complex and Expo Center
2300 N. Cameron Street
Harrisburg, PA 17110



University of
Pittsburgh® | School of
Public Health

Pennsylvania One Health Consortium 2025 Annual Meeting Agenda

Day 1, Wednesday June 25: Gathering Reception with Posters

5-7:30 pm: Poster Session, Networking

Day 2, Thursday June 26: Presentations and Dialogues on One Health Issues in Pennsylvania

8-8:05: Kick Off: James Holt, VMD, Visiting Associate Professor, School of Public Health, University of Pittsburgh

8:05-8:20: Opening Remarks: Russell Redding, MS, Secretary of Agriculture, Pennsylvania

8:20-9:05: Keynote Address, "The State of Animal Health with Focus on Implications on the Food Supply and Public Health": Alex Hamberg, VMD, PhD, State Veterinarian, Director of the Bureau of Animal Health and Diagnostic Services and Executive Director of the Animal Health and Diagnostic Commission

9:05-9:20: "One Health as a Disease Prevention Strategy": Maureen Lichtveld, MD, MPH, Dean, Jonas Salk Professor in Population Health and Professor of Environmental and Occupational Health, School of Public Health, University of Pittsburgh

Panel 1 - Animal Health and One Health

9:20-9:35: "The Criticality of Animal Science to One Health": (Speaker and Moderator) Andrew Hoffman, DVM, DVSc, DACVIM (Large Animals), Gilbert S. Khan Dean of the School of Veterinary Medicine, Penn Vet, University of Pennsylvania

9:35-10:05:

- o Speaker 1: 9 min. "Key Findings from Recent Food Animal Health Research in Pennsylvania": Erika Ganda, PhD, BVSc, Assistant Professor, Department of Animal Science, Pennsylvania State University
- o Speaker 2: 9 min. "Bad Bugs and Good Pugs: Antimicrobial Resistance in Companion Animals": Stephen Cole, VMD, DACVIM, Assistant Professor of Clinical Microbiology, School of Veterinary Medicine, University of Pennsylvania

- o Speaker 3: 9 min. "Integrating Fish and Wildlife Health Priorities into the 2025-2035 Pennsylvania Wildlife Action Plan": Julie Ellis, PhD, MSc, MS, Wildlife Ecologist, Associate Director of the Institute for Infectious and Zoonotic Diseases (IIZD) at Penn Vet

10:05-10:20: Discussion

- o Moderator to ask one overarching question to start the Q & A

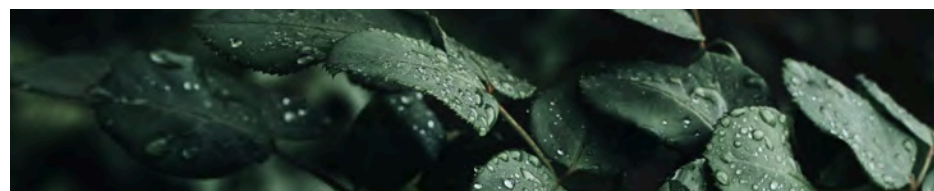
10:20-10:35: Break

Panel 2 - Plant and Ecosystem Health and One Health

10:35-10:50: "Integrating Systems Thinking in Sustainable Ecosystems": (Speaker and Moderator) Melissa Bilec, PhD, MS, Special Assistant to the Provost for Sustainability, George M. and Eva M. Bevier Professor of Civil and Environmental Engineering and Codirector, Mascaro Center for Sustainable Innovation and, University of Pittsburgh

10:50-11:30

- o Speaker 1: 9 min. "Resilient Soil-Plant-Microbiome Systems for Long-Term Human and Animal Health": Mary Ann Bruns, PhD, Professor Emerita of Soil Microbiology, Department of Ecosystem Science and Management, College of Agricultural Sciences, Pennsylvania State University
 - o Speaker 2: 9 min. "Enhancing Biosecurity by Identifying Invasive Species Threats, Pathways and Impacts": Deah Lieurance, PhD, Assistant Professor of Invasive Species Biology and Management, Department of Ecosystem Science and Management, Pennsylvania State University and Penn State Extension
 - o Speaker 3: 9 min. "A One Health Approach to Understanding Disease Risks in Wild and Domestic Canids in Pennsylvania": Justin Brown, DVM, PhD, Assistant Teaching Professor, Department of Veterinary and Biomedical Sciences, College of Agricultural Sciences, Pennsylvania State University
 - o Speaker 4: 9 min. "Ecological Communities Drive Ecosystem Restoration: Considering Functional Interactions and Holding Space for the Undiscovered": Robin Eng, MS, BS Ecology & Evolution, BA Philosophy, Wildlife Ecologist with the Pennsylvania Department of Conservation and Natural Resources, Bureau of Forestry
- 11:30-11:45:** Discussion
- o Moderator to ask one overarching question to start the Q & A.



Panel 3 – Human Health and One Health

11:45–noon: “One Health as a Precision Public Health Strategy”: (Speaker and Moderator) Maureen Lichtveld, MD, MPH, Dean, Jonas Salk Professor in Population Health and Professor of Environmental and Occupational Health, School of Public Health, University of Pittsburgh

Noon–12:30

o Speaker 1: 9 min. “Emerging Zoonotic Viruses and Impacts on Human Health”: Suresh Kuchipudi, PhD, MVSc, DipACVM, MBA, Professor and Chair, Department of Infectious Diseases and Microbiology, School of Public Health, University of Pittsburgh

o Speaker 2: 9 min. “Hot Zones: How Climate Change is Rewriting the Rules of Public Health”: Iulia Vann, MD, MPH, Director, Allegheny County Health Department

o Speaker 3: 9 min. “Introducing BRC–Analytics”: Ananias Escalante, PhD, MSc, Professor of Biology, Department of Biology and Institute for Genomics and Evolutionary Medicine, College of Science and Technology, Temple University

12:30–12:45: Discussion

o Moderator to ask one overarching question to start the Q & A

12:45–1:45: Lunch

Panel 4 – Education and Community Engagement

1:45–1:55: Education: “One Health for All at Delval.” (Speaker and Moderator) Reginald Hoyt, MA, Associate Professor and Cochair, Department of Animal Biotechnology and Conservation and Chair of the One Health Working Group, Delaware Valley University

1:55–2:10

o Speaker 1: 7 min. “Integrating One Health: A New Experience in Undergraduate Education at Penn State”: Justin Brown, DVM, PhD, Assistant Teaching Professor, Pennsylvania State University

o Speaker 2: 7 min. “One Health@Penn: Educational Innovations”: Jennifer Punt, VMD, PhD, Associate Dean of One Health, School of Veterinary Medicine, University of Pennsylvania

2:10–2:20: Community Engagement: “Gardens as Gateways: Making the Human Connection to One Health”: (Speaker and Moderator) Sarah States, PhD, Director of Research and Science Education, Phipps Conservatory and Botanic Gardens, Pittsburgh

2:20–2:35:

o Speaker 1: 7 min. “Role of USDA Wildlife Services and Public Engagement – Wildlife Damage Management, Wildlife Disease and Emergency Response”: Kyle Van Why, MS (Wildlife Ecology), BS (Wildlife Biology), Wildlife Disease Biologist, U.S. Department of Agriculture Animal and Plant Inspection Service

o Speaker 2: 7 min. “Penn State Extension: Getting the Word Out on One Health Discoveries and Solutions Across Pennsylvania”

Jennifer Fetter, MS, Director of the Center for Ag Conservation Assistance Training and Water Resources Program Leader at Penn State Extension

2:35–2:50: Discussion

o Moderators each ask one overarching question to start the Q & A

Economic Challenges in One Health

2:50–3:05: Christian Herr, BS, Executive Vice President, PennAg Industries Association

3:05–3:10: Q & A

3:10–3:25: Break

Strategic Roadmap Discussion

3:25–3:40: Moderated Panel Discussion to Identify Key Issues to Inform the PAOHC Strategic Action Roadmap (Day 3)

Recap and Closing Remarks

3:40–4:10: Lisa Graybeal, BS, Deputy Secretary for Animal Health and Food Safety, Pennsylvania Department of Agriculture

STRATEGIC ACTION ROADMAP

Day 3, Friday June 27 Consortium Members Only (Includes new members)

8:30–8:45: Breakout Session Guidelines. Maureen Lichtveld, MD, MPH, Dean, Jonas Salk Professor in Population Health and Professor of Environmental and Occupational Health, School of Public Health, University of Pittsburgh

8:45–9:45: Three breakout groups identify priority One Health needs and related opportunities for strategic partnerships and the PAOHC in Pennsylvania: Group 1—Research; Group 2—Education; and Group 3—Public/Stakeholder Engagement

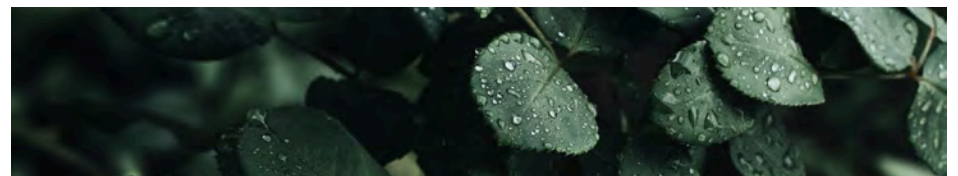
9:45–10:00: Break

10:00–11:00: Breakout Session representatives report on priority needs and related opportunities, followed by group discussion

11:00–11:30: Discussion of strategies for transdisciplinary implementation of the roadmap

11:30–12:30: Setting out next steps, including action items

12:30: Meeting Adjourned



Pennsylvania One Health Consortium 2025 Annual Meeting Agenda

One Health Unleashed: Connecting People, Animals, Plants, and Ecosystems for a Healthier Future

June 26, 2025

Opening Session



James Holt, VMD, Visiting Associate Professor, School of Public Health, University of Pittsburgh

Dr. James (Jim) Holt's love for animals began at an early age, he has been an avid horse rider since he was 9 years old. While riding Hunters and Jumpers, the highlight of his riding career was when he rode in a Grand Prix at age 16. It was this love of horses that translated into a passion to become a veterinarian.

Dr. Holt completed his undergraduate in 1986, from the Gettysburg College and then attended the University of Pennsylvania School of Veterinary Medicine, graduating in 1991. Upon completion of his education, he was hired on to the Morgantown Veterinary Clinic, a mixed equine/bovine practice that serviced Northern Chester, Lancaster, and Berks Counties.

In 1993, Dr. Holt decided to open his own mixed practice called Brandywine Veterinary Services, which he still runs today. He is a current board member of the Pennsylvania Veterinary Medical Association and Chairman of the Legislative and Regulatory Affairs Committee and as a Commissioner on the Animal Health and Diagnostic Commission for the PA Department of Agriculture. Additionally Dr. Holt has served on the Animal Welfare and Public Policy Committee for the American Association of Equine Practitioners.

The PVMA awarded Dr. Holt with the Animal Welfare Advocacy Award in 2015 and the Joan Hendrix One Health Hall of Fame Award in 2020.

Currently Dr. Holt spends part of his time working as a large animal veterinarian and part of his time as a visiting associate professor for the University of Pittsburgh in the Department of Infectious Disease and Microbiology.



Russell Redding, MS, Secretary of Agriculture, Pennsylvania

Russell Redding was unanimously confirmed by the Pennsylvania Senate to serve as Pennsylvania's 27th Secretary of Agriculture on May 10, 2023. Governor Josh Shapiro nominated Redding to continue serving as secretary, after he served from 2015 – 2022 under Governor Tom Wolf. He is the former dean of the School of Agriculture and Environmental Sciences at Delaware Valley University.

Redding has extensive experience as a public servant, having spent more than 30 years serving Pennsylvania in Harrisburg and Washington D.C. He worked on Capitol Hill as Ag Policy Advisor to U.S. Senator Harris Wofford and served for nearly 25 years in the Pennsylvania Department of Agriculture, serving as secretary from 2009-2011 under Governor Ed Rendell, and from 2015-2022 under Governor Tom Wolf. He currently serves on the Agriculture subcommittee of the USDA's Equity Commission.

He earned his B.S. in Agriculture Education and M.S. in Agriculture and Extension Education from Penn State University. In addition, he is a graduate of the Agribusiness Executive program. A native of Pennsylvania, Redding has an innate understanding of food and agriculture, stemming from his youth on his family's dairy farm and his time as a dairy farm operator. He and his wife Nina have two adult sons and own and operate a farm in Gettysburg.



Alex Hamberg VMD, PhD, State Veterinarian, Director of the Bureau of Animal Health and Diagnostic Services, and Executive Director of the Animal Health and Diagnostic Commission

A longtime resident of Pennsylvania, Dr. Hamberg completed his undergraduate studies at Muhlenberg College in Allentown. After a graduating from Penn Vet in 2003, he spent a short time in private practice before entering an anatomic pathology residency and PhD combined program at the Ohio State University. His PhD work focused on virulence determinants in Porcine circovirus type 2. Dr. Hamberg spent several years as a pathologist for the Ohio Animal Disease Diagnostic Laboratory focusing on diagnostic pathology of food and fiber species before returning to Pennsylvania as lecturer at the University of Pennsylvania School of Veterinary Medicine. In 2014, he joined the Pennsylvania Veterinary Laboratory as a diagnostician, eventually advancing to Assistant State Veterinarian. In December 2022, Dr. Hamberg joined the health care associated infections team at the Pennsylvania Department of Health.

Dr. Hamberg left the laboratories to become the Assistant State Veterinarian for Pennsylvania in 2019 and became the State Veterinarian in 2023. During that time, he has participated in the revision and updating of poultry health initiatives, including those that affect the live bird markets and live bird market supply flocks in Pennsylvania. He

works regularly with neighboring states on a variety of livestock and poultry health issues. Dr. Hamberg was also part of the Pennsylvania response to Highly Pathogenic Avian Influenza.



Maureen Lichtveld, MD, MPH, Professor of Environmental and Occupational Health, Jonas Salk Chair in Population Health, and Dean of the School of Public Health, University of Pittsburgh

Dr. Maureen Lichtveld, a member and Vice Chair of Council of the National Academy of Medicine (NAM), is Dean of the School of Public Health, the Jonas Salk Chair in Population Health, and Professor of Environmental and Occupational Health at the University of Pittsburgh with over 35 years of expertise in environmental health. As Dean, Dr. Lichtveld oversees seven academic departments, 1,200 students, 165 faculty and 320 staff. Her research focuses on environmentally induced disease, community-engaged environmental epidemiology studies, health disparities, climate and health, environmental health policy, disaster preparedness, public health systems and community resilience. Her expertise in climate and health is locally, nationally, and globally recognized. She is actively involved in Caribbean-wide climate and health research and research training examining the impact of climate change and associated contamination of seafood as a food safety and security issue, and climate adaptation associated with the impact of coastal erosion on forced migration of indigenous nations, including pregnant women with minimal access to health services. She provides technical expertise to several NAM and NASEM committees, including the NAM Grand Challenge in Climate and Health, HMD Boards, Roundtables, and Committees. She is a member of the National Research Council. Dean Lichtveld is the past-Chair of the Consortium of Universities for Global Health. She has co-authored the textbook on Environmental Policy and Public Health. Honors include Johns Hopkins University Society of Scholars, CDC Environmental Health Scientist of the Year, and Woman of the Year of the City of New Orleans for contributions to science.

Panel 1 - Animal Health and One Health



Andrew Hoffman, DVM, DVSc, Gilbert S. Khan Dean of the School of Veterinary Medicine of the University of Pennsylvania

Dr. Andrew Hoffman is a large animal veterinarian who started his career in rural New England private practice. He is the Gilbert S. Kahn Dean of Veterinary Medicine at the University of Pennsylvania since 2018. Prior to his appointment as Dean, he was faculty at Tufts

University for 24 years, where he assumed numerous leadership roles: Director of Equine Sports Medicine; Director of the Lung Function Testing Laboratory; Director of the Stem Cell Laboratory; and Director of the Regenerative Medicine Laboratory. His over 20 years of continuous NIH funding focused on therapies for emphysema and asthma, including AeriSeal™ for human emphysema currently in U.S. clinical trials, and AeroHippus™, which is the inhaler for treatment of equine asthma. Hoffman also developed a spectrum of non-invasive diagnostic lung function tests in animals ranging from mice to bottlenose dolphins to elephants. At the University of Pennsylvania (Penn) he founded the first Extracellular Vesicle core in the U.S. As Dean, Hoffman has focused on interdisciplinary and interprofessional scholarship for the veterinary profession including new dual degrees for VMD students, and founding the Institute of Infectious and Zoonotic Diseases, Center for Stewardship Agriculture and Food Security, and Wildlife Futures Program. He is a member of the National Academy of Practice, and serves on several advisory groups related to climate change and One Health, including founding Chair of the Climate Change Task Force of the American Association of Veterinary Medical Colleges, the National Academy of Medicine Action Collaborative (Education committee), the National Academy of Science Engineering and Medicine Environmental Health working subgroup, the Methane and Health working group of the Environmental Defense Fund, and Advisory Council for the Environmental Innovations Initiative among other things.



Erika Ganda, PhD, BVSc, Assistant Professor, Department of Animal Science, Penn State University

Dr. Erika Ganda is an Assistant Professor of Animal Science at Penn State University. A veterinarian and microbial ecologist by training, her research focuses on the ecology and evolution of pathogens, resistance elements, and microbiomes across animal production systems. Her work integrates epidemiology, molecular biology, and computational analysis to improve animal health, food safety, and antimicrobial stewardship. She leads

federally funded projects on antimicrobial resistance, *Salmonella* Dublin, and microbiome-driven interventions, with collaborators across academia, public health agencies, and the dairy industry. Dr. Ganda has published widely on microbial genomics, pathogen surveillance, and One Health approaches and is active in mentoring students and international trainees in microbial ecology and data science.



Stephen Cole, VMD, DACVM, Assistant Professor of Clinical Microbiology, School of Veterinary Medicine, University of Pennsylvania

Dr. Stephen Cole, MS, VMD, is an Assistant Professor of Microbiology and Director of the Clinical Infectious Disease Laboratory at PennVet. He obtained his MS in microbiology from the College of William and Mary in 2011 and his VMD from the University of Pennsylvania School of Veterinary Medicine in 2015. He became boarded in bacteriology and immunology in 2018 and virology in 2020 by the American College of Veterinary Microbiologists. He is the recipient of the ASM Peggy Cotter Early Career Award, numerous teaching awards and was named a One Health Scholar by the AAVMC. Dr. Cole's research focuses how to understand and mitigate the spread of antibiotic resistant bacteria between companion animals and people.



Julie Ellis, MS, PhD, MSc, Wildlife Ecologist, Associate Director of the Institute for Infectious and Zoonotic Diseases (IIZD) at Penn Vet

Julie Ellis is a wildlife ecologist who has over 20 years of experience leading wildlife health projects and programs in the Northeast U.S. Ellis co-founded the Wildlife Futures Program, a partnership between the School of Veterinary Medicine University of Pennsylvania (Penn Vet) and the Pennsylvania Game Commission aimed at strengthening the resilience of the Commonwealth's 480 species of birds and mammals through wildlife health surveillance, research, and outreach to inform and wildlife management in Pennsylvania and beyond. She holds a B.S. and MSc in Systematics and Ecology from the University of Kansas and a Ph.D. in Ecology and Evolutionary Biology from Brown University.

Panel 2 - Plant and Ecosystem Health and One Health



Melissa Bilec, MS, PhD, Special Assistant to the Provost for Sustainability Co-Director, Mascaro Center for Sustainable Innovation George M. and Eva M. Bevier Professor, University of Pittsburgh

Dr. Melissa Bilec is a prominent voice in sustainable engineering and climate solutions. She is the George M. and Eva M. Bevier Professor in Civil and Environmental Engineering and co-directs the Mascaro Center for Sustainable Innovation, a center advancing sustainable research and education at the University of Pittsburgh. She serves as the Special Assistant to the Provost for Sustainability.

Dr. Bilec's research is dedicated to developing sustainable solutions for buildings and healthcare. She is an expert in life cycle assessment and utilizes this systems-level approach while integrating building energy modeling and indoor air quality assessments. Her work aims to mitigate climate change and address global waste challenges by advancing circular economy principles in the built environment and healthcare.

At the University of Pittsburgh, Dr. Bilec has led greenhouse gas inventories since 2008 and serves on the Chancellor's Sustainability Council to guide the University's climate strategy. She has published over 150 peer-reviewed articles and secured over \$20 million in funding. Her educational contributions include creating Pitt's M.S. in Sustainable Engineering degree, co-developing a university-wide undergraduate certificate in sustainability, and establishing the PhD Circular Economy Program. Her earlier work focused on community-based infrastructure projects, including transforming a century-old hot metal bridge into a pedestrian bridge.

Dr. Bilec led Civil and Environmental Engineering's inaugural Inclusion, Diversity, Equity, and Access Committee and serves as the co-faculty advisor for the Pitt Society for Women Engineers. She has received multiple awards for her commitment to sustainability, diversity, and education.



Mary Ann Bruns, PhD, Professor Emerita of Soil Microbiology, Department of Ecosystem Science and Management, College of Agricultural Sciences, Pennsylvania State University

Mary Ann Bruns is Emerita Professor of Soil Microbiology in the Department of Ecosystem Science and Management at The Pennsylvania State University. Bruns taught and conducted research in environmental

microbiology for the last 30 years. She holds a courtesy appointment on the Executive Committee of Penn State's One Health Microbiome Center. Her educational credentials include a BA in Microbiology (Univ of Nebraska), MS in Food Science & Technology (Univ of Nebraska), and PhD in Crop and Soil Sciences (Michigan State University), with graduate training in the NSF-funded Center for Microbial Ecology. Her research focuses on how land use and management affect soil and root microbiomes and soil functionality for ecosystem service delivery. Bruns served as Chair of the Soil Biology and Biochemistry Division of Soil Science Society of America and twice as President of the Allegheny Branch of American Society for Microbiology. Her background includes service as a Peace Corps Volunteer in Cameroon, quality assurance microbiologist in the food industry, and research analyst in the U.S. Office of Technology Assessment. Most recently Bruns served on the ASM Climate Change Task Force.



Deah Lieurance, PhD, Assistant Professor of Invasive Species Biology and Management, Department of Ecosystem Science and Management, Pennsylvania State University and Penn State Extension

I am an Assistant Professor of Invasive Species Biology and Management at Penn State University. I have over 13 years of experience working on invasive species prevention and risk assessment. I led the first horizon scan using a structured framework in the United States for potential invaders for Florida and am currently leading scans for the US Virgin Islands, Puerto Rico, and a national scan for plants in trade, as well as a project to rank secondary spread pathways as a part of the National Early Detection and Rapid Response Framework. My dissertation research addressed many aspects of mechanisms contributing to the success of non-native *Lonicera* species, and included plant-herbivore interactions, chemical ecology, enemy release, tolerance and resistance to herbivory. I also have experience in the areas of ecosystem ecology, plant allometry, ecophysiology, and the testing and development of biocontrols for prominent invasive plant species in Florida.



**Justin Brown, DVM, PhD, Assistant Teaching Professor,
Department of Veterinary and Biomedical Sciences, College of
Agricultural Sciences, Pennsylvania State University**

Justin Brown is a wildlife veterinarian and an Assistant Teaching Professor in the Department of Veterinary and Biomedical Sciences (VBSC) at Penn State University. He received his DVM from Virginia-Maryland College of Veterinary Medicine in 2004 and his PhD in Pathology from the University of Georgia in 2008. From 2008-2013, he was a wildlife disease diagnostician and researcher at the Southeastern Cooperative Wildlife Disease Study. Justin then served as the veterinarian for the Pennsylvania Game Commission from 2013-2018. He has been a faculty member at Penn State since 2019, where he teaches several courses in the VBSC major and conducts applied research on wildlife diseases. He is passionate about teaching, advising, and supporting student growth, both inside and outside of the classroom. His research interests include understanding the impacts of diseases on wildlife populations and the potential for wildlife involvement in diseases of agricultural or public health importance.



**Robin Eng, MS, Pennsylvania Department of Conservation and
Natural Resources**

Robin grew up in the suburbs of Pittsburgh, Pennsylvania, and has always held a strong passion, curiosity, and respect for nature. She has worked in forests in Pennsylvania, California, and South Carolina, and has held positions in several sectors and specialized fields of ecology and conservation; from carnivore biology in national forests, to urban horticulture, to fundraising for environmental policy. Through her meandering career path, Robin has been exposed to many different perspectives, has marveled at unexpected connections, and has seen that progress is rarely accomplished in isolation. She now lives in central PA works for the PA DCNR as a Wildlife Ecologist supporting the management of the commonwealth's 2.2-million-acre State Forest System.

Panel 3 - Human Health and One Health



Maureen Lichtveld, MD, MPH, Professor of Environmental and Occupational Health, Jonas Salk Chair in Population Health, and Dean of the School of Public Health, University of Pittsburgh

Dr. Maureen Lichtveld, a member and Vice Chair of Council of the National Academy of Medicine (NAM), is Dean of the School of Public Health, the Jonas Salk Chair in Population Health, and Professor of Environmental and Occupational Health at the University of Pittsburgh with over 35 years of expertise in environmental health. As Dean, Dr. Lichtveld oversees seven academic departments, 1,200 students, 165 faculty and 320 staff. Her research focuses on environmentally induced disease, community-engaged environmental epidemiology studies, health disparities, climate and health, environmental health policy, disaster preparedness, public health systems and community resilience. Her expertise in climate and health is locally, nationally, and globally recognized. She is actively involved in Caribbean-wide climate and health research and research training examining the impact of climate change and associated contamination of seafood as a food safety and security issue, and climate adaptation associated with the impact of coastal erosion on forced migration of indigenous nations, including pregnant women with minimal access to health services. She provides technical expertise to several NAM and NASEM committees, including the NAM Grand Challenge in Climate and Health, HMD Boards, Roundtables, and Committees. She is a member of the National Research Council. Dean Lichtveld is the past-Chair of the Consortium of Universities for Global Health. She has co-authored the textbook on Environmental Policy and Public Health. Honors include Johns Hopkins University Society of Scholars, CDC Environmental Health Scientist of the Year, and Woman of the Year of the City of New Orleans for contributions to science.



Suresh Kuchipudi, PhD, MVSc, DipACVM, MBA, Professor and Department Chair, Faculty in Infectious Diseases and Microbiology, School of Public Health, University of Pittsburgh

Dr. Suresh Kuchipudi is the Professor and Chair of the Department of Infectious Diseases and Microbiology at the University of Pittsburgh School of Public Health, USA. Prior to joining the University of Pittsburgh, Dr. Kuchipudi held various academic and clinical positions. He served as the Dorothy Foehr Huck and J.

Lloyd Huck Chair Professor in Emerging Infectious Diseases at the Penn State Huck Institutes of the Life Sciences and director of Penn State Veterinary Diagnostic Laboratory. He was previously faculty at the University of Nottingham in the UK. Dr. Kuchipudi is a veterinary clinician with a Ph.D. in virology from the University of Glasgow, UK, an MBA from Penn State Smeal College of Business, and a diplomate in virology and immunology from the American College of Veterinary Microbiologists (ACVM). His primary research focuses on emerging and zoonotic viruses; his multidisciplinary research aims to understand virus spillover and adaptation, developing innovative diagnostics, vaccines, and therapeutics. He promotes a transdisciplinary approach through 'One Health' initiatives, fostering multisector partnerships and building impactful international collaborations.



Iulia Vann, MD, MPH, Public Health Director for Allegheny County

Dr. Iulia Vann is a distinguished public health leader dedicated to advancing health equity, innovative policy development, and systemic change. As the Public Health Director for Allegheny County, she leads the strategic implementation of various comprehensive community health initiatives addressing physical health, behavioral health, and environmental health. With an extensive background in public health administration, Dr. Vann oversees multimillion-dollar budgets and large-scale public health operations, ensuring that data-driven, equity-focused policies drive community health improvements. Her expertise spans social justice, health disparities, and federal, state, and local health policy. She has played a pivotal role in addressing emerging health threats, such as stepping into the Public Health Incident Commander role during the COVID-19 response while serving as the Guilford County Public Health Director in North Carolina. She held other leadership positions in the local government public health in this state. Dr. Vann holds a Master of Public Health from East Carolina University and a Doctor of Medicine from the University of Medicine and Pharmacy Carol Davila in Bucharest, Romania. She is a champion of community engagement, workforce development, and collaborative public health interventions, ensuring that all residents - particularly the most vulnerable - have the opportunity to lead healthy lives.



Ananias Escalante, MSc, PhD, Professor of Biology, Department of Biology and Institute for Genomics and Evolutionary Medicine, College of Science and Technology, Temple University

Professor Ananias A. Escalante graduated as a biologist at Universidad Simón Bolívar in Venezuela, where he also got his MSc in Ecology. He earned his Ph.D. in Biology at the University of California, Irvine, in 1995. Dr. Escalante then joined the Centers for

Disease Control and Prevention in Atlanta (CDC) as a postdoctoral fellow and was affiliated as a guest researcher in the CDC until 2005, when he joined Arizona State University as an Associate Professor. Since 2015, Dr. Escalante has been part of Temple University in Philadelphia as core faculty of the Institute for Genomics and Evolutionary Medicine (iGEM). His research has centered on translating concepts from population genetics into epidemiology, particularly understanding the dispersion of mutations associated with drug resistance in *Plasmodium falciparum* and how molecular evolution and population genetics can enrich disease surveillance, focusing on malaria control and elimination. He has worked on deepening our understanding of malarial parasites' diversity using evolutionary genetics; those investigations include phylogenetic and comparative genomic studies in *Plasmodium* species found in nonhuman primates as they relate to the origins of human malaria parasites.

Panel 4 – Education



Reginald Hoyt, MA, Associate Professor and Cochair, Department of Animal Biotechnology and Conservation, and Chair of the One Health Working Group, Delaware Valley University

During his twenty-five year zoo career, Reg, most recently, was the Senior Vice President for Conservation and Science at the Philadelphia Zoo. Reg worked extensively in Liberia, West Africa on the biologic and socio-economic impacts of the wildlife harvest and bushmeat trade, wrote the “Elephant Conservation Action Plan for Liberia”, and continues to support conservation in Liberia through Forest Partners International, a non-profit he co-founded.

For the last nineteen years, Reg has been a faculty member of the Delaware Valley University, in the Department of Animal Biotechnology and Conservation, and has served as its Co-Chair since 2007. He is an active member of the Pennsylvania Biological Survey, focusing on mammals.

Reg founded and has been Chair of the Delaware Valley University One Health Working Group since 2015. This committee, consisting of faculty, staff, and students, promotes a systems approach to education across all disciplines and the need for trans-disciplinary approaches to address the many challenges faced locally to internationally. He organizes six seminars per semester that are open to the public, to demonstrate the One Health approach.



Justin Brown, DVM, PhD, Assistant Teaching Professor, Department of Veterinary and Biomedical Sciences, College of Agricultural Sciences, Pennsylvania State University

Justin Brown is a wildlife veterinarian and an Assistant Teaching Professor in the Department of Veterinary and Biomedical Sciences (VBSC) at Penn State University. He received his DVM from Virginia-Maryland College of Veterinary Medicine in 2004 and his PhD in Pathology from the University of Georgia in 2008. From 2008-2013, he was a wildlife disease diagnostician and researcher at the Southeastern Cooperative Wildlife Disease Study. Justin then served as the veterinarian for the Pennsylvania Game Commission from 2013-2018. He has been a faculty member at Penn State since 2019, where he teaches several courses in the VBSC major and conducts applied research on wildlife diseases. He is passionate about teaching, advising, and supporting student

growth, both inside and outside of the classroom. His research interests include understanding the impacts of diseases on wildlife populations and the potential for wildlife involvement in diseases of agricultural or public health importance.



Jennifer Punt, VMD, PhD, Associate Dean of One Health, School of Veterinary Medicine, University of Pennsylvania

Jenni Punt, VMD, PhD, is an immunologist who has spent most of her career integrating research and teaching. A Biology Professor at Haverford College for eighteen years, she collaborated with undergraduates to understand the molecular and cellular basis for cell fate decisions during T cell and hematopoietic stem cell development. An Associate Dean for Student Research at Columbia University's School of Physicians and Surgeons from 2013-2015, she was the founding director of an MD/MSc dual degree program focused on interdisciplinary medical scholarship - and continued to investigate the regulation of cell fate with students in the laboratory. Tempted back to University of Pennsylvania's School of Veterinary Medicine in 2017, she is now the Associate Dean of One Health and Professor of Immunology in the Pathobiology Department. With the help of an innovative team of faculty from Penn Med and Penn Vet, she is working to develop interprofessional educational programs that provide our new generation of leaders with skills needed to address complex challenges that impact human, animal, and environmental health. She continues to teach at all levels and collaborate with students in the laboratory, where they are currently working to understand the relationship between immune cell activity and animal welfare.

Panel 4 – Community Engagement



Sarah States, PhD, Director of Research and Science Education, Phipps Conservatory and Botanic Gardens

Dr. Sarah States is the director of research and science education at Phipps Conservatory and Botanical Gardens in Pittsburgh, Pennsylvania, USA. Dr. States leads Phipps' Research Institute for Biophilia and Science Engagement, where she develops innovative local, national and international research partnerships at the intersection of human and environmental health. She brings her multidisciplinary experience to basic and applied research related to urban ecology, green building design, sustainability, and human health in the built environment in Phipps' three Living Building Challenge™ buildings. Dr. States oversees the development and implementation of pre-K-12 informal education programs that focus on connecting youth to nature. She also leads youth and adult climate communication programs for local and national audiences. She received her Ph.D. in ecology and evolutionary biology from Cornell University and completed postdoctoral research at the Yale School of Public Health and Columbia University.



Kyle Van Why, MS (Wildlife Ecology), BS (Wildlife Biology), Wildlife Disease Biologist at USDA-APHIS-Wildlife Services

Kyle Van Why is originally from the Pocono Mountains and traveled to southwestern PA to pursue a degree in wildlife management. After graduating as an undergraduate he led the nomadic wildlife technician lifestyle and worked in the Midwest and Southeast on a variety of wildlife projects with various state agencies and universities for a number of years. Kyle was given the opportunity to work on restoration of the endangered Louisiana black bear for his Master's spending 3 years in the swamps of Louisiana.

Kyle started his career with USDA Wildlife Services in 2003 in Mississippi and in 2007 he returned to Pennsylvania accepting the position he currently holds as the Wildlife Disease Biologist. His current work focuses on wildlife disease issues (management, surveillance, control, research, and education) which include working with State and Federal agencies and numerous institutions. Kyle has been involved with a diversity of projects including SARS in wildlife, avian influenza, CWD, wild canid parasites and acts in a first responder role for USDA being deployed within state and nationally multiple times. He serves on a

number of multi-agency working groups. He is a Certified Wildlife Biologist with The Wildlife Society, has received multiple APHIS level awards related to disease response events, was the 2016 USDA WS Wildlife Disease Biologist of the Year, and 2023 PA Trapper Assoc Conservationist of the Year. Kyle currently resides in Perry County, PA with his wife and 3 kids.



Jennifer Fetter, MS - Director, Center for Ag Conservation Assistance Training & Water Resources Program Leader at Penn State Extension

Over 20 years of experience translating scientific research into informal educational programs and tools to help Pennsylvanians understand water resources and the issues they face.

Leadership of over 25 educators (faculty and staff) working together to provide water resources programming, including direction of the new Center for Ag Conservation Assistance Training.

Economic Challenges in One Health



Christian Herr, BS, Executive Vice President, PennAg Industries Association

Christian R. Herr is the Executive Vice President of PennAg Industries Association. In his position, he and his staff of eight represent the interests of more than 500 agribusiness and production agriculture operations. PennAg is a full-time, full-service membership association that represents businesses of all sizes and types and advocates and lobbies for its members in government, public and media affairs. Around for more than 140 years, PennAg is the premier agribusiness association in Pennsylvania.

PennAg has become a national leader in advocating for farm animal welfare and progressive changes in production and processing practices.

Before joining PennAg, Chris served 18 years with the Pennsylvania Department of Agriculture, eight of those as Deputy Secretary for Regulatory Programs. He served in the administrations of six different governors.

Chris grew up on a family farm in Lancaster County Pennsylvania. The Herr Family currently operates farms in Pennsylvania, Ohio and Delaware.

Chris is a 1985 graduate of Penn State University and has a degree in Agriculture Education.

Strategic Roadmap Discussion

Recap and Closing Remarks



Lisa Graybeal, Deputy Secretary for Animal Health and Food Safety, Pennsylvania Department of Agriculture

Secretary Redding appointed Lisa Graybeal as Deputy Secretary in March 2023. In her position, Graybeal oversees the Bureaus of Animal Health, Food Safety, the Farm Show, and Workforce.

Lisa grew up on her family's dairy farm located in southern Lancaster County. She earned her bachelor's degree in journalism from Northeastern University in Boston, MA, and

worked as a newspaper reporter for several publications for a decade before returning to the family farm. She worked there for 20 years serving in multiple capacities, including herd manager and overseeing employees, before coming to the Department of Agriculture in Harrisburg. She and her brother, Byron, are the third generation on their dairy. They recently merged with another family and are currently milking 2,500 cows at two locations.

Among her duties while on the farm, Lisa also served on the board of directors and was past chairman of the Lancaster County Agriculture Council, chairman of Penn State Extension's Lancaster Council, an associate director on the Lancaster County Conservation District board, vice chairman of the board of Animal Production Science and Technology of the Lancaster County Career and Technology Center, and Judge of Elections for Fulton Township.

For her leadership, Deputy Secretary Graybeal has been honored with the 2020 George C. Delp Award by the Lancaster Chamber of Commerce and Industry.



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