

Friday

8:00 AM	Opening Session	
8:20 AM	Keynote: Cases Selected from a Career in Avian Poultry Oscar Fletcher, NC State University	
	Enteric Health	Case Report
9:00 AM	Investigations of influencing factors on the gut health and microflora composition in layers Silke Rautenschlein, <i>Clinic for Poultry, University of Veterinary Medicine, Hannover</i>	Respiratory Disease and Bacterial Septicemia of Broilers Linked to Three Specific Breeder Flocks - Part 1 Jose Linares, <i>Ceva Animal Health</i>
9:15 AM	The Effects of Direct-Fed Microbial Supplementation, as an Alternative to Antibiotics, on Growth Performance, Intestinal Immunity, and Epithelial Barrier Integrity in Broiler Chickens Infected with Eimeria maxima Inkyung Park, <i>USDA-ARS</i>	Respiratory Disease and Bacterial Septicemia of Broilers Linked to Three Specific Breeder Flocks David French, <i>Sanderson Farms, Inc.</i>
9:30 AM	The effect of dietary supplementation of several Bacillus strains on growth performance and gut health in mixed coccidiosis infection in chickens Atul Chaudhari, <i>USDA-ARS</i>	Itch Alert! There Mite Be A Problem Robinette Gilbert, <i>Sanderson Farms, Inc.</i>
9:45 AM	Efficacy of Supplemented Bacillus subtilis DSM 17299 in Broiler Chickens Fed Standard and Energy, Protein and Amino Acid- Reduced Diets John Schleifer, <i>Chr-Hansen, Inc.</i>	I Need You to Call Me Now! Eric Heskett, <i>Case Farms</i>
10:00 AM	Break	
	Avian Influenza	Case Report
10:15 AM	Impact of Immune Pressure on Mutations of Highly Pathogenic Avian Influenza Virus in Vaccinated Poultry Darrell Kapczynski, <i>USDA-ARS-Southeast Poultry Research Laboratory, Athens, Ga</i>	Are those necks really crooked? Danny Magee, <i>CVM Poultry Research & Diag Lab</i>
10:30 AM	Broader protection from a recombinant live vectored vaccine than inactivated avian influenza vaccines in chickens against diverse H5 highly pathogenic avian influenza viruses Miria Criado, <i>USDA</i>	The Saga Continues: Broiler Variant Reovirus in Eastern North Carolina. Why Did it Happen? Erin Riley, <i>Sanderson Farms Inc.</i>

10:45 AM	Improvement of an NS1-truncated Live Attenuated Influenza Vaccine by Selection of Viral Subpopulations with Enhanced Interferon-inducing Capability Amir Ghorbani, <i>The Ohio State University</i>	Chicks Exhibiting Drunken Behavior Jean-Pierre Vaillancourt, <i>University of Montreal</i>
11:00 AM	Importance of Vaccine seed strain matching for the control of H9N2 avian influenza David Suarez, <i>Southeast Poultry Research Laboratory, Agricultural Research Service, U.S. Department of Agriculture</i>	Feed Refusal Leading to Spiking Mortality Syndrome in Broiler Chickens Marie Severyn, <i>Amick Farms</i>
11:15 AM	Development and evaluation of live attenuated vaccines against highly pathogenic H7N3 avian influenza virus Stivalis Cardenas Garcia, <i>The University of Georgia</i>	Analysis of Three Clinical Cases Related to Ionophore Toxicity in Broiler Chickens Martha Pulido Landinez, <i>Mississippi State University</i>
11:30 AM	Avian Influenza H6 Virus-like Particles Confers Potent Immunogenicity and Protective Efficacy in Chickens Hui-Wen Chen, <i>National Taiwan University</i>	Three Times a Charm? Three Different Clinical Presentations of Calcium Toxicity in Meat Type Chickens. Philip Stayer, <i>Sanderson Farms</i>
11:45 AM	Mutations in PB1, NP, HA and NA Genes Contribute to Altered Pathogenicity and Viral Shedding of H5N2 Highly Pathogenic Avian Influenza Virus in Chickens and Mallards Sungsu Youk, <i>U.S. National Poultry Research Center, ARS-USDA</i>	Egg Drop Syndrome (Adenovirus 127) in Layers Sherrill Yeakel, <i>Univ of Pennsylvania</i>
12:00 PM	Lunch Break	
	Avian Influenza	Case Report
1:15 PM	Overlapping genes of the avian influenza virus M segment: Role of M2/M42 in evolution of highly pathogenic avian influenza virus Karen Segovia, <i>ARS-USDA</i>	Implications of Campylobacter Hepaticus in Organic Laying Facilities Lisa Tenny, <i>Kansas State University</i>
1:30 PM	The Molecular Determinants of Antibody Recognition and Antigenic Variations of the HA of H9N2 Viruses Silvia Carnaccini, <i>UGA - PDRC</i>	Multiple Barns with High Mortality in a Large Multi-Age Layer Complex Mohamed El-Gazzar, <i>Iowa State University</i>
1:45 PM	Determining molecular markers of avian influenza virus adaptation in poultry by full genome sequencing of different lineage viruses Mary Pantin-Jackwood, <i>Southeast Poultry Research Lab, US National Poultry Research Center, US Dept. of Agriculture-Agriculture</i>	An Outbreak of very virulent Infectious Bursal Disease Associated with Severe Mortality in 9-week-old Pullets in California. H Shivaprasad, <i>University of California, Davis</i>

2:00 PM	In vivo and in vitro differences between two H5N8 clade 2.3.4.4 highly pathogenic avian influenza viruses clade 2.3.4.4 Christina Leyson, <i>Southeast Poultry Research Laboratory</i>	Clinical investigation of false laying syndrome in commercial egg layers Corine Giroux, <i>Hickman's Family Farms</i>
2:15 PM	Alterations in H5 Highly Pathogenic and Low Pathogenic Recombinant Hemagglutinin Tissue Tropism associated with Increasing Age in Selected Anseriformes and Galliformes Bird Species Carmen Jerry, <i>University of Georgia, PDRC</i>	Case study - Investigation of Aspergillosis related mortality in commercial layer pullets - Diagnose rare things rarely Albert Payne, <i>1010 Consulting Group</i>
2:30 PM	Challenges in Environmental Sampling and the Use of the VetMAX Gold AI Detection Kit Len Chappell, <i>Georgia Poultry Laboratory Network</i>	Botulism in Turkeys, Is It More Common Than We Realize? Kabel Robbins, <i>Butterball, LLC</i>
2:45 PM	Persistence of LPAI in carcass composting and bedding litter treated with acidifier amendment Alejandra Figueroa, <i>University of California, Davis</i>	A Case Report of Rotavirus A Hepatitis in California Pigeons Simone Stoute, <i>University of California Davis</i>
3:00 PM	Break	
	Epidemiology	Vaccinology
3:15 PM	Application of Remote Sensing Technologies to the Epidemiology of Avian Influenza and Other Poultry Diseases Todd Kelman, <i>University of California, Davis</i>	New Field Experiences with Dual-Construct Vaccines Elise Myers, <i>Merck Animal Health</i>
3:30 PM	Understanding How Multiple Production Variables Affect Production Performance Using Statistical Freeware Dave Fernandez, <i>AgForte</i>	Recombinant HVT/IBD Vaccine As The Sole IBDV Primer In Broiler Breeders: Seroconversion And Progeny Protection Against Challenge With Variant E Enrique Montiel, <i>Boehringer Ingelheim</i>
3:45 PM	Epidemiological approaches to investigate the determinants of poultry diseases and productivity Robert Wills, <i>College of Veterinary Medicine, Mississippi State University</i>	Traditional live HVT and NDV -vectored vaccines protection against California 2018 virulent Newcastle Disease Virus in pullets Alexandra Reilley, <i>Merck Animal Health</i>

4:00 PM	Tactical Epidemiology: Analysis Becomes Action During the Virulent Newcastle Disease Response in California <i>Annette Jones, California Department of Food and Agriculture</i>	Compatibility of A Recombinant HVT-ND Vaccine with Bursaplex to Provide Protections against Velogenic NDV, Virulent Classic IBDV and Virulent MDV Challenges in SPF Birds <i>Sing Rong, Zoetis</i>
4:15 PM	A retrospective study of variables associated with the incidence of necrotic enteritis in No Antibiotics Ever broiler complexes in the USA <i>Andrew Bishop, University of Georgia CVM</i>	The Feasibility of the IBDV MB-1 Live Vaccine Strain for In Ovo and Day of Hatch Applications <i>Ehud Ashash, Phibro Animal Health Corporation</i>
4:30 PM	Epidemiological Investigation of Infectious Bronchitis in Backyard Flocks in Arkansas <i>Melissa Yates, Arkansas Livestock & Poultry Commission</i>	Development of a Genotype-Matched Vaccine Against Virulent Newcastle Disease Virus <i>Dana Goldenberg, USDA ARS</i>
4:45 PM	An Epidemiological Investigation of An Emerging IBD Variant in Broilers in BC, Canada <i>BABAK SANEI, Zoetis</i>	Comparison of Injection Sites for Se Bacterin Vaccine in Commercial Pullets and Layers <i>Katharine Schlist, Forsman Farms, Inc.</i>
5:00 PM	Opening Reception	

Saturday

8:00 AM	Welcome
8:10 AM	Epidemiological tools in investigating disease and productivity issues in poultry – an overview <i>Jean-Pierre Vaillancourt, University of Montreal</i>
8:45 AM	Development and Use of Biosecurity Risk Assessments in Commercial Poultry <i>David Shapiro, Perdue Farms</i>
9:20 AM	Application of epidemiological tools in investigating disease from a voluntary nationwide disease database <i>Andreia Arruda, The Ohio State University</i>
9:50 AM	Break
10:00 AM	Epidemiologic Tools Used in Investigating the 2015 HPAI Outbreak <i>Brian McCluskey, APHIS</i>
10:35 AM	A Production Veterinarian’s Experience Using Epidemiological Tools Investigating Turkey Cellulitis <i>Brian Wooming, Cargill Turkeys</i>
11:10 AM	Geospatial Analysis and Related Epidemiological Tools in Understanding Common Poultry Diseases <i>Louise Dufour-Zavala, Georgia Poultry Laboratory Network</i>
11:45 AM	Epidemiological Application to Molecular Techniques in Understanding the Introduction, Spread and Containment of Poultry Diseases <i>Mark Jackwood, UGA-PDRC</i>

Sunday

8:00 AM	Keynote: Andrick Payen Diaz De la Vega, Rabobank RaboResearch Food and Agribusiness Analyst	Keynote: Quantifying Antimicrobial Use in Poultry Production Randall Singer, University of Minnesota
	Wealth of Knowledge	Antimicrobial
8:30 AM	2019 Research Priorities of the American Association of Avian Pathologists Natalie Armour, <i>Mississippi State University, CVM, DPPM</i>	Organic acids and nature identical compounds improve the efficacy of conventional antibiotics against E. cecorum Benedetta Tugnoli, <i>Vetagro S.p.A.</i>
8:45 AM	USDA- National Poultry Improvement Plan Update Denise Heard, <i>USDA- National Poultry Improvement Plan</i>	Antimicrobial Effects of Lactic Acid and Bifidobacteria Probiotic Strains and an Enhanced Organic Acid Product Against Salmonella Chasity Pender, <i>Biomin America Inc.</i>
9:00 AM	Creating a New Cross Commodity Retail Labeled Animal Production Standard Based on the Principles of One Health G. Donald Ritter, <i>Mountaire Farms Inc.</i>	Evaluation of Dry Hydrogen Peroxide for Reducing Microbial Load in a Commercial Hatchery Brian Jordan, <i>The University of Georgia</i>
9:15 AM	Surviving the Hurricane of a Lifetime...Again Becky Tilley, <i>Butterball</i>	Use of Formaldehyde and Hydrogen Peroxide in a Commercial Broiler Hatchery Sue Hubbard, <i>Merck Animal Health</i>
	Wealth of Knowledge	Protozoa/Parasitology
9:30 AM	Hurricane Florence: North Carolina Department of Agriculture Response and Impact on NC Poultry Production Michael Martin, <i>North Carolina Department of Agriculture and Consumer Services</i>	Case Study: broiler integrator performance during transition to No Antibiotics Ever production Linnea Newman, <i>Merck Animal Health</i>
9:45 AM	An underestimated tool: 25-Hydroxyvitamin D3 for intestinal and bone health for broilers raised without antibiotics. Tina Yun-Ting Wang, <i>DSM</i>	Effect of litter condition (new litter vs. built-up litter) and two anticoccidial programs (bioshuttle vs. non-bioshuttle) on the oocyst concentration in feces of broiler breeder pullets. Eric Orozco, <i>Mississippi State University PRDL</i>
10:00 AM	Break	
10:15 AM	Wellness Talk	
10:45 AM	Business Meeting	
12:00 PM	Lunch Break	
	Wealth of Knowledge	Protozoa/Parasitology

1:15 PM	Dinner with Henrietta: Nutritional Issues in the Small Flock Patricia Wakenell, <i>Purdue VM: Dept. Comparative Pathobiology</i>	Anticoccidial Sensitivity Tests (ASTs): The Do's and Dont's Hector Cervantes, <i>Phibro Animal Health</i>
1:30 PM	Extension 3.0 in Backyard Poultry Flocks in California Myrna Cadena, <i>UC Davis School of Veterinary Medicine</i>	Development of a Multi-Locus Sequence Typing (MLST) Scheme for Eimeria maxima Ruediger Hauck, <i>Auburn University</i>
1:45 PM	Providing Poultry Disease Education in Myanmar Richard Fulton, <i>Michigan State University</i>	Incorporating Recombinant Eimeria Proteins into Nanoparticles Improves Protective Efficacy Against Avian Coccidiosis Mark Jenkins, <i>ARS-USDA</i>
2:00 PM	Femoral Head Necrosis (FHN): Incidence and distribution in the U.S. broiler industry Jaime Ruiz, <i>Elanco Animal Health</i>	Using polymer microspheres or fluorescein to evaluate live coccidiosis delivery success following commercial coarse spray or gel-droplet administration. Ryan Snyder, <i>University of Guelph</i>
2:15 PM	Role of wooden breast in late mortality in conventional broiler chickens and its prevalence prior to processing Sesny Gall, <i>NCSU Veterinary College</i>	Characterization and Control by Vaccination of a Pathogenic Eimeria Species Infecting Commercial Chukar Partridge Jessica Rotolo, <i>The University of Guelph</i>
2:30 PM	What's in the Tracheal Microbiome of a Commercial Broiler Poultry Flock? Kelly Mulholland, <i>University of Delaware</i>	The use of a non-ionophore anticoccidial in a bio-shuttle program for breeder pullets Takumu Niino, <i>Zoetis</i>
2:45 PM	Enhanced statistical process control systems for monitoring and predicting live operations performance, plant performance, and pathogens Timothy Buisker, <i>Smart Data Science Solutions</i>	Fifteen Years of Worming Broiler Breeder Pullets/Males Kelli Jones, <i>Ceva</i>
3:00 PM	Break	
	Pathology	Immunology
3:15 PM	Broiler Bone Evaluation: What is Normal and Potential Causes of Lameness- Part 1 Suzanne Dougherty, <i>Amer Assn of Avian Pathologists</i>	Susceptibility and characterization of anti-viral innate immune responses in chicken B cells infected with infectious bursa diseases virus and supplemented with 1,25(OH)2D3 Juan Rodriguez-Lecompte, <i>Atlantic veterinary College, University of Prince Edward Island</i>

3:30 PM	Skeletal Development in a Broiler Chicken Dietary Study: Histopathology Correlates of Clinical Findings <i>Frederic Hoerr, Veterinary Diagnostic Pathology, LLC</i>	Comparative Efficacy of In ovo Administered Toll-like Receptor Ligands Against Respiratory Viral Infections in Chicken <i>Mohamed Sarjoon Mohamed Abdul-Cader, University of Calgary</i>
3:45 PM	Myopathic Lesions in Broiler Chicken Heritage Breeds and Red Junglefowl <i>Hannah Sather, North Carolina State University College of Veterinary Medicine</i>	Influence of feeding programs on the innate immune responses of broiler breeders against Salmonella and E coli <i>Enrique Montiel, Boehringer Ingelheim</i>
4:00 PM	I See Liver Spots! <i>Claude Hebron, Prestage Farms</i>	Innate Immune Responses to Infectious Bronchitis Virus in Tracheal Organ Cultures from MHC Congenic Chicken Lines <i>Ana Paula Da Silva, UC Davis</i>
	Food Safety	Immunology
4:15 PM	Salmonella Enteritidis Invasion of Internal Organs and Contamination of Eggs from Experimentally Infected Laying Hens of Four Commercial Genetic Lines <i>Richard Gast, U.S.National Poultry Research Center, USDA-ARS</i>	Recombinant Avian Interferons as Long Lasting Adjuvants in Live IBV Vaccines. <i>Jose Cano, Universidad Nacional Autonoma de Mexico</i>
4:30 PM	Effect of yeast derived feed additive on Salmonella and antibiotic resistance <i>Michelle Kromm, Jennie-O Turkey Store</i>	Evaluation Of Humoral And Cellular Immune Responses Of Broiler Breeders Following Vaccination With Inactivated FAdV Vaccine Adjuvanted With Emulsigen-D Or Cpg-ODN <i>Ashish Gupta, Western College of Veterinary Medicine, University of Saskatchewan</i>
4:45 PM	Mycobacterium avium subsp. avium in Range-reared and Free-range Eggs <i>Bill Pierson, Center for One Health Research / VA-MD College of Veterinary Medicine</i>	Correlating Breeder Flock Serology with Maternal Antibody Titers in Poults <i>Katie Stumvoll, Jennie-O Turkey Store</i>

Monday

8:00 AM	Keynote: Sex and the Single Salmonella: What We Don't Know Hurts Us Jean Guard, <i>USDA</i>	Keynote: Evaluation of the Impact of Mycoplasma synoviae Infection on the Efficacy of Infectious Laryngotracheitis CEO Vaccination in Broiler Chickens Naola Ferguson-Noel, University of Georgia
	Food Safety	Bacteriology
8:30 AM	Immunization with Live Salmonella Vaccine, Programs in Broiler Chickens and Resulting Impact in Plant Samples Robert Evans, <i>Elanco</i>	Field Trial of Live Mycoplasma synoviae (MS) Vaccine in Area of High MS Prevalence Myeongseob Kim, <i>Boehringer Ingelheim</i>
8:45 AM	Live Salmonella Typhimurium Vaccination Lowers the Load Of Various Salmonella Serogroups at Different Challenge Ages in Broilers Manuel Da Costa, <i>Zoetis</i>	Developing and Application of Real Time PCR Protocols to Differentiate Mycoplasma synoviae Vaccine Strains Mohammadreza Ehsan, <i>University of Georgia</i>
9:00 AM	Use of Salmonella Vaccines in Commercial Turkeys for Pre-Harvest Reduction in Salmonella Load at Processing Megan Lighty, <i>Jennie-O Turkey Store</i>	Clinical 6/85 Mycoplasma Gallisepticum Vaccine Infection in Pre-Production Turkey Breeders Judith LaBounty, <i>Rembrandt Foods</i>
9:15 AM	Most effective form of vaccination application using a live attenuated Salmonella typhimurium vaccine Jolene Tourville, <i>Jennie-O Turkey Store</i>	Development and validation of Mycoplasma iowae (MI) Core Genome Multilocus Sequence Typing (cgMLST) scheme Mostafa Ghanem, <i>The Ohio State University</i>
9:30 AM	Feed and drinking water delivered chitosan-subunit Salmonella nanovaccine for poultry Sankar Renu, <i>The Ohio State University</i>	Avian Pathogenic E. coli genotypes across the US broiler and turkey industries. Daniel Karunakaran, <i>Arm and Hammer Animal Nutrition</i>
9:45 AM	Evaluation of Long-Term Immunity and Protection against Salmonella spp by an Orally Administrated Subunit Vaccine Sherry Layton, <i>Vetanco/BV Science</i>	Characterization of omphalitis causing Extra-intestinal pathogenic Escherichia coli Martine Boulianne, <i>Université de Montréal</i>
10:00 AM	Break	
	Food Safety	Bacteriology
10:15 AM	Genotypic diversity among avian reovirus field isolates Holly Sellers, <i>The University of Georgia</i>	The Role of Enterococcus Faecalis in the Modulation of Avian Pathogenic E. coli Infections of Poultry Grayson Walker, <i>North Carolina State University CVM</i>

10:30 AM	Evaluation of the Pathogenicity of Recent Reovirus Field Isolates in Genotypes 2, 4 and 6 in Commercial Broilers Angela Stewart, <i>Poultry Diagnostic and Research Center - University of Georgia</i>	Attempts to Reproduce Focal Duodenal Necrosis by Experimental Infection of Chickens with Clostridium Perfringens Isolates and Duodenal Homogenates Monique Franca, <i>UGA</i>
10:45 AM	Cold Adaptation and Evaluation of an Avian Reovirus Genotype One Variant William Dawe, <i>University of Georgia</i>	16s Phylogenomic Analysis of Environmental and Tissue Microbiota for Correlating Management Strategies Related to Incidence of Clostridial Dermatitis in Turkeys Yuko Sato, <i>Iowa State University</i>
11:00 AM	Horizontal Transmission of Reovirus and Age-Associated Susceptibility to Development of Viral Arthritis/Tenosynovitis Milos Markis, <i>AviServe LLC</i>	Ornithobacterium rhinotracheale (ORT): Never ending story Hafez Mohamed Hafez, <i>Institute of Poultry Diseases Free University Berlin</i>
11:15 AM	My Experience with Laboratory Diagnosis of Reovirus Tenosynovitis Tahseen Abdul-Aziz, <i>Rollins Animal Disease Diagnostic Laboratory</i>	In vitro and in vivo evaluation of probiotic supplementation and its effect on performance and immune response in Campylobacter-challenged broilers Mohamad Mortada, <i>University of Georgia</i>
11:30 AM	History Lecture	
12:00 PM	Lunch Break	
	Virology	Diagnostics
1:15 PM	Immune Responses Induced in Chickens by a Genetically More Homogeneous Infectious Bronchitis Virus Vaccine Haroldo Toro, <i>Auburn University</i>	Evaluation of sample collection devices for recovering poultry respiratory viruses from the environment Erica Spackman, <i>SEPRL-USDA-ARS</i>
1:30 PM	Broiler Study Evaluating Arkansas IBV Protection Achieved By Various Heterologous IB Vaccine Combinations Kalen Cookson, <i>Zoetis</i>	Re-emerging Turkey Arthritis Reovirus - Diagnostic Strategies Sunil Mor, <i>University of Minnesota</i>
1:45 PM	False Layer Syndrome Caused by Infectious Bronchitis Virus, Genetic Characterization and Pathobiology Insights Rodrigo Gallardo, <i>University of California, Davis</i>	Avian Reoviruses: Molecular Characterization In California Sofia Egana, <i>University of California, Davis</i>
2:00 PM	Use of different NDV ELISA kits for the evaluation of the antibody response at different ages elicited by a recombinant Newcastle disease vaccine (HVT+ND) applied in ovo in both specific pathogen free (SPF) birds and commercial broilers. Claudia Osorio, <i>Boehringer-Ingelheim</i>	Molecular Characterisation of Chicken Arthritis Reoviruses Circulating in Israel, Germany and the United States Rahul Kumar, <i>University of Minnesota</i>

2:15 PM	Host adaptation affects the transmission of virulent Newcastle disease viruses in chickens Helena Lage Ferreira, <i>US National Poultry Research Center, SEPRL</i>	Random amplification coupled with MinION sequencing provides a diagnostic test that rapidly detects co-infecting agents responsible for common avian diseases Tonya Taylor, <i>USDA-SEPRL</i>
2:30 PM	Molecular-epidemiological and evolution study of the Newcastle disease virus causing outbreaks in California in 2018 Kiril Dimitrov, <i>USDA/ARS/USNPRC/SEPRL</i>	Infectious Bronchitis in Immunologically Naive Breeding Chickens and Their Progeny Corissa Steimling, <i>The Pennsylvania State University Animal Diagnostic Laboratory</i>
2:45 PM	Evaluation of Protection against AL-2 like Infectious Bursal Diseases Virus using a Dual Recombinant HVT-ND-IBDV Vaccine Along and in Combination with a Live 89/03 and Two Plaque Intermediate Standard Strains of IBDV vaccine Andres Montoya, <i>Merck Animal Health</i>	Infectious Laryngotracheitis Prevalence in California Backyard Chicken Flocks and Strain Differentiation by ICP4 Sequencing, 2007-2017. Julia Blakey, <i>California Animal Health and Food Safety Lab- UC Davis</i>
3:00 PM	Break	
	Virology	Management
3:15 PM	Study of pathogenesis of Infectious Bursal Disease Virus (IBDV): Comparison between a South American Variant and a Classic Strain Ariel Vagnozzi, <i>INTA</i>	Evaluation of Enrichments for Meat-type Chickens Katherine Barger, <i>Cobb Vantress Inc</i>
3:30 PM	Cell-mediated Immune Responses in the Eye Associated Lymphoid Tissues of Chickens after Vaccination or Infection with Infectious Laryngotracheitis Virus (ILTV) Maricarmen Garcia, <i>The University of Georgia, Athens GA</i>	Effects of sanitation water treatments during broiler growth-out Ricardo Munoz, <i>Neogen</i>
3:45 PM	Interpretation of Real-time PCR Data from Clinical Specimens Suspected for Vaccinal Laryngotracheitis Virus Infection. Arun Kulkarni, <i>Georgia Poultry Laboratory</i>	What are you doing to day-old poults Ben Wileman, <i>Select Genetics</i>
4:00 PM	Efficacy of Innovax-ILT (recombinant HVT-LT) vaccine when administered alone or in combination with a chicken embryo origin (CEO) vaccine Daniel Maekawa Maeda, <i>University of Georgia</i>	Implementation and Evaluation of a Biosecurity Audit Tool Within a Large Turkey Company Molly Parker, <i>Butterball, LLC</i>

4:15 PM	The Role of Vaccination on Transmission of Marek's Disease Virus in Poultry John Dunn, <i>USDA-ARS-ADOL</i>	Impact of downtime on performance and livability in commercial turkey flocks Elise Gerken, <i>Jennie-O Turkey Store</i>
4:30 PM	Are Birds Expressing Cas9 and Guide RNAs against Marek's Disease Virus (MDV) Resistant to MDV Challenge? Karel Schat, <i>Cornell University</i>	Pullet Vaccination Evaluations: The Good, the Bad, and the Ugly Timothy Cummings, <i>Zoetis</i>
4:45 PM	Next Generation Sequencing (NGS) of Haemorrhagic Enteritis Virus (HEV) obtained from spleens of turkeys raised in Western Canada Victor Palomino-Tapia, <i>University of Calgary</i>	Comparison Of The Circadian Rythm Of Broiler Brreders And Commercial Layers During Lay On Different Biochemical Parameters With An Emphasis On Shell Formation Daniel Venne, <i>Couvoir Scott Ltée</i>

Posters

Antimicrobial

Reducing Microbial Load on Hatching Eggs Using a Dry Hydrogen Peroxide Gas System

Julia McElreath, *University of Georgia*

Efficacy of sodium formate (Amasil NA), monobutyryn, other glycerides, and glycerol (SiloHealth 104), and bacitracin methylene disalicylate (BMD) on intestinal and processed parts bacteria count when fed to broiler chickens challenged with mild coccidia

Michael Coelho, *BASF Corp*

Are You Ready for an FDA Inspection? Ensuring a Valid VCPR for Poultry Prescriptions and Protocols

Steven Clark, *Devenish Nutrition, LLC*

Prevalence and Antimicrobial Resistance of Fecal Commensal E. coli and Salmonella Isolates Obtained from Ontario Small Poultry Flocks

Csaba Varga, *Ontario Ministry of Agriculture Food and Rural Affairs*

Antimicrobial Resistance Patterns in Campylobacter Species Isolated From Poultry Production Facilities in Alberta

Karen Liljebjelke, *University of Calgary*

Avian Influenza

Risk assessment of avian influenza virus dissemination in duck farms in France

Kateri Bertran, *ENVT, University of Toulouse*

Prevention and Control of Avian Influenza Through Biosecurity, Surveillance, Early Detection, and Rapid Response: It Is Easier Said Than Done

Nathaniel Tablante, *University of Maryland College Park*

Outbreaks of Low Pathogenic Avian Influenza H7N3 in Turkeys in California.

H Shivaprasad, *University of California, Davis*

Vaccine Protection of Commercial Broilers Vaccinated with an Avian Influenza Vector Vaccine rHVT-H5 and an Inactivated H5N2 Vaccine and Challenged with the Mexican H5N2 Highly Pathogenic Avian Influenza Virus (HPAIV)

Luiz Sesti, *Ceva Animal Health*

Chimeric Virus-Like Particle Vaccine Elicits Strong Antibody Response against Different Clades of H5 Highly Pathogenic Avian Influenza Viruses

Dong-Hun Lee, *Department of Pathobiology & Veterinary Science, University of Connecticut*

Genetic Characterization and Transmissibility of the First H9N2 Avian Influenza Virus in Indigenous Chickens from Kenyan Live Bird Markets

Henry Kariithi, *USDA-ARS*

Pathogenicity and Transmission of Clade 2.3.4.4 H5Nx Highly Pathogenic Avian Influenza Viruses in Chickens.

Junghoon Kwon, *U.S. National Poultry Research Center*

Development and Comparison of Two Primary Chicken Tracheal Cell Culture Systems for the Study of Avian Influenza Virus Infection

Emily Aston, *University of California-Davis*

Extended laboratory exercise on surge capacity of highly pathogenic avian influenza (HPAI) virus testing

Stephanie Forrester, *Georgia Poultry Laboratory Network*

Bacteriology

Characterization of the duodenal microbiota in egg layers with Focal Duodenal Necrosis using next generation sequencing

Monique Franca, *UGA*

Molecular Characterization of Avian Pathogenic E. coli (APEC) from Turkey Cellulitis.

Catherine Logue, *University of Georgia*

Complete Genome Sequence of Mycoplasma iowae (MI) type strain 695

Mostafa Ghanem, *The Ohio State University*

Outbreaks of infectious endocarditis in mule duck: epidemiological study and potential etiological role of Streptococcus pluranimalium

Jean-Luc Guerin, *ENVT, University of Toulouse*

Pathogenicity of Avibacterium paragallinarum Isolates with Different Nicotinamide Adenine Dinucleotide Requirements of South Korea

Ok-Mi Jeong, *Animal and Plant Quarantine Agency*

Effect of a Feed Incorporated Phytobiotic on Intestinal Lesions in Poultry Challenged with Clostridium perfringens

Sherry Layton, *Vetanco BV Science*

Mycobacterial Infection in a Pet Zebra Finch

Kristen Hill-Thimmesch, *Purdue University*

Identification of Gallibacterium anatis in egg production eggs for plate using the PCR Test in The Altos Area de Jalisco, México

Alejandro Hori, *Boehringer Ingelheim Animal Health*

Case Reports

Chicks Exhibiting Drunken Behavior

Jean-Pierre Vaillancourt, *University of Montreal*

Mycotoxins Toxicity in Laying Hens

Andres Rodriguez-Avila, *BioARA SA*

Chronic Mycosis in a Backyard Hen

Laura Morman, *Purdue University Indiana Animal Disease Diagnostic Lab*

Diagnostics

A summary of epidemic pattern of increased infectious bronchitis virus isolations in broiler and layer chickens in Pennsylvania

Huaguang Lu, *The Pennsylvania State University*

Identification and lineage typing of infectious bronchitis virus in clinical samples by real-time MinION Nanopore sequencing

Salman Latif Butt, *University of Georgia, Athens*

Development of an Informative Molecular Diagnostic Assay for Detection and Typing of Infectious Bronchitis Virus

Fernando Jimenez, *Pennsylvania State University Animal Diagnostic Laboratory*

Next Generation Sequencing for IBV Whole Genome: Importance and Reliability

Fernando Jimenez, *Pennsylvania State University Animal Diagnostic Laboratory*

POULTRY VACCINES : INNOVATIVE SEROLOGICAL ASSAYS FOR DIAGNOSIS AND VACCINATION MONITORING FOR H5, H7 AND H9 AVIAN INFLUENZA A

Laure PAPAIX, *IDvet*

Validation of Two New Real-Time Avian Influenza PCR Kits

Gwenllyan Slacum, *BioChek USA Corp.*

Optimization Of The Protocol For Detection of Turkey Arthritis Reovirus by RT-PCR

Robert Porter, *Univ of Minnesota*

Use of an Infectious Laryngotracheitis Virus gB Protein Elisa kit to Assess the Serological Response to Vaccination

Fernando Lozano, *CEVA ANIMAL HEALTH*

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Stephen Spatz, *US National Poultry Research Center, Agricultural Research Service, United States Department of Ag*

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Iryna Goraichuk, *USDA-ARS-USNPRS-SEPRL*

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Linda Michel, *The Ohio State University*

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Erfan Chowdhury, *Alabama Veterinary Diagnostic Laboratory System*

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Randi Clark, *Poultry Diagnostic and Research Center*

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Why a Quality Management System is Valuable in a Poultry Laboratory

Brenda Glidewell, *GA Poultry Lab*

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Charles Hofacre, *Southern Poultry Research Group, Inc.*

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Carolyn Miller, *Consultant*

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Doug Waltman, *Georgia Poultry Laboratory Network*

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Woohyun Kim, *USDA-ARS*

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Xanat Alicia Roa Garcia, *Boehringer Ingelheim Animal Health Mexico*

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Bruno Garcia, *San Marcos University*

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Marek's Disease Virus

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Jewell Bremer, *North Carolina State University CVM*

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Rachel Reese, *North Carolina State University CVM*

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Isabel Gimeno, *North Carolina State University*

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Aneg Lucia Cortes, *North Carolina State University, CVM*

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Blanca Lupiani, *Texas A&M University*

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James Collins, *University of Georgia, Dept. of Infectious Diseases*

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Alfredo Panebra, *USDA*

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Nelly Cribillero, *San Marcos University*

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A Cervical Mass in an Adult Backyard Hen

Kristen Hill-Thimmesch, *Purdue University*

Description of round cell neoplasia in psittacine birds to characterize diagnostic features

Daniel Gibson, *The University of Guelph*

Neoplasia in Small Poultry Flocks in Ontario

Leonardo Susta, *University of Guelph*

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Floyd Wilson, *MVRDL*

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Frederic Hoerr, *Veterinary Diagnostic Pathology, LLC*

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Ramon Zegpi, *Auburn University*

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Francisco Perozo, *Merial*

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Claudia Carranza, *USP / Ceva Animal Health*

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Bruno Garcia, *San Marcos University*

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Brian Ladman, *University of Delaware*

Wealth of Knowledge

Non-biological factors impacting efficacy of Direct Fed Microbials in commercial poultry production

James Barton, *Dr.*

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Tina Yun-Ting Wang, *DSM*

Toward Understanding the Respiratory Microbiota of Poultry

Chang-Won Lee, *Food Animal Health Research Program, The Ohio State University*

Field Experiences in Preventing Bacterial Bone Disease in Broiler Chickens

Marie Severyn, *Amick Farms*

Big Data in Poultry Production: Harnessing Information Regardless of Scale

Albert Payne, *Simple Ag Solutions*

Using Telemedicine for Training and for Collaborative Initiatives in the Field

Jean-Pierre Vaillancourt, *University of Montreal*

Incorporating the New NPIP SubPart J into the State's Plan.

Douglas Anderson, *GPLN*

A Coordinated Plan for Assisting NPIP Official State Agencies and NPIP Participants with NPIP Requirements and Biosecurity Programs

Don Reynolds, *University of Nebraska*

INDUSTRY STRATEGIES FOR INCLUSION BODY HEPATITIS CONTROL IN PERU.

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Poultry Health Management Schools: Continuing Education For the Poultry Health Professional

Robert Porter, *Univ of Minnesota*

The effects of downtime on key chicken production parameters

Timothy Buisker, *Smart Data Science Solutions*

Characterization of the Demographics and Prevalence of Poultry Pathogens in Ontario, Canada Small Poultry Flocks

Marina Brash, *Animal Health Laboratory*

Causes of Morbidity and Mortality in Small Flocks in Ontario

Leonardo Susta, *University of Guelph*

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Christopher Gaudette, *North Carolina State University CVM*

Mycotoxin Prevalence in the 2018 Latin American Corn Crop

Eduardo Vicuna, *BIOMIN*

Megabacteriosis, *Macrorhabdus ornithogaster* and *Mycobacterium genavense* in a Zoo Budgerigar, *Melopsittacus undulatus*, Flock

Richard Fulton, *Michigan State University*

A Historical Snapshot of Turkey Production in the USA

Joan Schrader, *Poultry Veterinarian & Consultant*

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