

Session 1

Matthew Stone, Deputy Director General, World Organisation for Animal Health, OIE



Matthew Stone is a veterinary epidemiologist from New Zealand, and the Deputy Director General – International Standards and Science at the World Organisation for Animal Health (OIE) at their Paris headquarters. After five years in mixed veterinary practice, Matthew worked for the next 20 years with the government veterinary authority of New Zealand, the Ministry for Primary Industries, serving in numerous veterinary and management roles, including as the New Zealand Delegate to the OIE. In that capacity he served as the Secretary General for the OIE Asia Far East and Oceania region. Matthew has been President of the Epidemiology Branch of the New Zealand Veterinary Association; and a member of the Professional Standards Committee of the New Zealand Veterinary Council; the Stakeholder Council for the New Zealand Tb Free and National Animal Identification and Traceability programmes; and the Wellington SPCA Board. In OIE Matthew oversees the organisation's processes for setting international standards; the global strategies for FMD, PPR, Rabies and AMR; and represents OIE on the UN Inter-Agency Coordination Group for AMR.

Professor Dame Sally Davies, Co-convener, United Nations Interagency Coordination Group on AMR



Dame Sally was appointed Chief Medical Officer (CMO) for England and Chief Medical Advisor to the UK Government in March 2011, having held the post on an interim basis since June 2010. Dame Sally is an independent advisor to the UK Government on medical matters, with particular responsibilities regarding Public Health. From 2004-2016, Dame Sally was the Chief Scientific Adviser (CSA) for the Department of Health (DH), where she was actively involved in NHS R&D from its establishment and founded the National Institute for Health Research (NIHR). In 2013, Dame Sally became a Non-Executive Director of Genomics England Ltd, wholly owned and funded by DH, to sequence 100,000 whole genomes from NHS patients by 2017. Dame Sally is also a non-executive member of the UK Research and Innovation Board, which she sits on in a personal capacity due to her civil servant status.

Dame Sally was a member of the World Health Organization (WHO) Executive Board 2014-2016 and has led delegations to WHO summits and forums since 2004. She advises many governments and organisations on health and policy, holding positions on a number of Boards.

Dame Sally advocates globally on AMR. She has spoken on AMR at numerous events including, the World Health Assembly side events, the G8 Science Ministers' meeting in 2015, the Global Health Security Initiative in 2015, and the UN General Assembly side event in 2016. She was chair of the 2013 AMR forum at the World Innovation Summit for Health (WISH) and is chair of the WHO Strategic and Technical Advisory Group on AMR. Most recently, Dame Sally has been appointed a co-convener of the UN Inter-Agency Co-ordination Group on AMR, set up in response to the AMR declaration made at UNGA 2016.

Dame Sally received her DBE in 2009. She was elected Fellow of the Royal Society in 2014 and a member of the National Academy of Medicine, USA in 2015.

Juergen Voegele, Senior Director, Agriculture Global Practice, World Bank



Juergen Voegele, a German national, was appointed Senior Director of the Agriculture Global Practice on May 29, 2014. At the time of his appointment, he was serving as Director for Agriculture and Environmental Services (AES) in the Bank's Sustainable Development Network (SDN), a position he had held since 2008. Previously, he was Sector Manager for Agriculture in the Bank's Europe and Central Asia region, a role he assumed following an assignment in Beijing as Principal Agricultural Specialist and Rural Sector Coordinator.

Following his doctoral studies, which included a three-year assignment in Western Samoa, Juergen consulted and undertook research for a number of agencies and locations, including Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ, formerly GTZ) and the German Federal Ministry of Economic Cooperation and Development (BMZ) with assignments in the Caribbean, China, Myanmar, Niger, the Pacific Islands, and Togo among others.

Juergen joined the World Bank in 1991 as a Young Professional. Career highlights include his leadership of the acclaimed Loess Plateau watershed management project in China, and managing a multi-sectoral team that disbursed more than \$1 billion for 70 projects in response to the global Avian influenza crisis. Those latter efforts were replicated during the 2008 global food crisis. Beyond his operational work at the Bank, Juergen has played a key role in shaping the global agenda on agriculture and food security.

Juergen studied at the University of Hohenheim, Germany, from where he received a PhD in Agricultural Economics, a Master of Agricultural Engineering in Crop Production, Economics and Extension Forestry and a post-graduate degree in Phytomedicine.

www.worldbank.org/agriculture

Session 3

Elizabeth Long, Behavioral Designer, DTA Innovations



Elizabeth Long is a Behavioral Designer with more than 15 years experience working in global health and development. Her journey to becoming a behavioral designer began after working on implementing or evaluating programs that clearly were not designed around the realities of peoples' lives. Seeing multiple programs fail to deliver health or economic improvements because of either their top-down design or their lack of user input led her to the field of behavioral design, the intersection of behavioral economics and human-centered design.

She loves challenging myths about the fact that knowledge transfer interventions alone change behavior. Her activities instead focus on the contextual factors that influence behaviors and how using these contextual cues to design interventions lead to better outcomes. She also focuses on building understanding in systems by challenging the idea that if someone doesn't do a behavior it's because they're "not motivated" and needs to be provided more information. She works to strengthen capacity for teams to augment their existing behavior change activities with applied behavioral economics and human-centered design tools.

She has lived or worked on six continents and holds degrees from Johns Hopkins University, University of San Francisco, and University of California, Davis. Prior to setting up her own consulting firm and consulting for UNICEF, WHO, Abt Associates, GRID Impact, and INSIGHT Health, she worked for ideas42, Harvard University School of Public Health, USAID, and the Public Health Institute. Her mantra is: *Let's not push people into doing something just by 'nudging' them. Let's co-design products and systems that make it mentally effortless for people to improve their own lives.*

Catherine Bertrand-Ferrandis, Communications Manager and Veterinarian, World Organisation for Animal Health, OIE



Catherine is the Head of the Communication Unit, World Organisation for Animal Health (OIE), in Paris.

She practiced veterinary medicine for some years before coordinating a National Action Plan for the French Ministry of Agriculture. She then became a Journalist and Editor-in-chief of a monthly professional magazine, and Deputy Editor of a group of five journals, before entering her current position at the OIE.

Catherine is skilled in institutional and intercultural communication, risk communication, management and training, project management, science and general journalism, team coaching, and the production of editorial content, photos and videos.

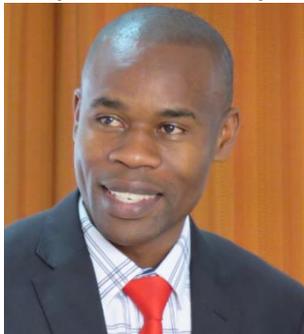
Taylor Gabourie, Communications Unit, World Organisation for Animal Health, OIE



Taylor Gabourie is an applied anthropologist specializing in ethnography and behaviour change in animal health, and is currently the World AMR Communications Officer within the Communication Unit at the World Organisation for Animal Health (OIE) in Paris. She is responsible for the development, implementation and evaluation of the global AMR communication campaign and relevant activities at OIE. Previously, she worked as a member of the One Health Institute at the University of California Davis implementing the Emerging Pandemic Threats PREDICT Project in project coordination and qualitative behavior change activities in areas of zoonosis and antimicrobial resistance. She holds a Bachelors of Science from the University of Wisconsin Oshkosh and a Masters of Anthropology from the University of

Nairobi.

Joseph Othieno, Kenya Tsetse and Trypanosomiasis Eradication Council



Dr. Othieno Joseph is a practicing veterinary doctor and a journalist with a weekly column on veterinary issues in the Standard Newspaper. Dr. Othieno has participated in the development of Communication Strategies targeting various issues within the public health and livestock sectors. He has developed Communication Strategies for Bird Flu, Neonatal and Maternal tetanus, Livestock marketing and health among others. Recently he gave technical backstopping towards the development of Anti-Microbial Resistance (AMR) Communication Strategy for the multi-sectoral AMR group in Kenya.

Dr. Othieno currently works with the Kenya Tsetse and Trypanosomiasis Eradication Council (KENTTEC), he is the OIE Communication focal point for Kenya. He holds a bachelors degree in Veterinary Medicine, a masters of Arts in Communication Studies and a doctoral degree in Agricultural Information and Communication Management all from the University of Nairobi. He will graduate with a masters degree in Public Policy and Management from the University of York later in the year.

Samuel Joseph Manglapus Castro, Department of Agriculture of the Philippines



Dr. Samuel Joseph M. Castro, is a Doctor of Veterinary Medicine (DVM) graduate of the University of the Philippines, Los Banos. He began working with the Department of Agriculture Bureau of Animal Industry (BAI, Philippines), under the successful AusAID-funded FAO-implemented National Foot and Mouth Disease Eradication Project in the Philippines. He then pursued a Master of Veterinary Public Health (MVPH) degree of the Freie Universität Berlin – Chiang Mai University Joint Post-graduate Programme. After completing the MVPH programme, he joined the FAO Coconut-Based Farming Systems (CBFS) Program in response to Typhoon Haiyan as Provincial Programme Officer and then National Programme Consultant for Livestock.

Dr. Castro was involved in animal health programmes in the Philippines and the region including a project of Chiang Mai University, Thailand, and Center for Animal Health and Food Safety (CAHFS), University of Minnesota on Culling Practices, Disposal Approaches and Compensation Policies for Poultry Disease Control in Lower Mekong Countries; the National Animal Schistosomiasis Control Project, BAI, Philippines; and an FAO project in the Philippines on Immediate Technical Assistance to Strengthen the Control of Highly Pathogenic Avian Influenza (HPAI) Regional Activities.

Dr. Castro is currently Veterinarian III under the National Veterinary Quarantine Services Division of the BAI, Philippines, and is the Assistant Coordinator for the BAI Food Safety Programme and BAI focal person for Antimicrobial Resistance.

Christianne Brusckhe, OIE Delegate, Nature and Food Quality, Ministry of Agriculture of the Netherlands



Christianne Brusckhe graduated in 1991 as veterinarian and started working in a mixed private practice in the north of the Netherlands. In 1993 she joined the Virology department of the Central Veterinary Institute in Lelystad where she did a PhD on pestivirology and was heading the laboratory for bovine virology from 1994 on. After the classical swine fever outbreak in the Netherlands she was seconded for a year to the Inspection Service for Livestock and Meat to support the updating of the Dutch contingency plans. A year later she returned to Lelystad as head of the unit Notifiable Diseases and 2 years later she became director of the Division of Infectious Diseases. In 2005 joined the Ministry of Agriculture and was seconded to the OIE where

she led the global Avian Influenza Programme. In 2008 she returned to The Hague as deputy Chief Veterinary Officer and since 2010 she is the Chief Veterinary Officer of The Netherlands. She is the primary adviser to the Minister of Agriculture on all veterinary and veterinary public health issues.

Session 4

Herbert Schneider, Agrivet International Consultants



Born in 1942, Herbert Schneider grew up on a farm in the Karibib district of Namibia, where he is part-time farming with cattle. He studied veterinary medicine at the University of Pretoria, South Africa (Onderstepoort), obtaining the degree *BVSc* degree in 1965. Post graduate qualifications are: *DVSM* (Dip. State Vet. Med) University of Edinburgh (Scotland) 1973; *Dr.med.vet*, University of Giessen (Germany) 1977; and Specialist veterinarian in Tropical Veterinary Medicine, State of Hessen (Germany) 1981 (*FTA-TVM*).

He joined the Division of Veterinary Services (South West Africa Administration) in 1965 and served as State Veterinarian in various livestock districts. In 1978 he was appointed to the position of Director of Veterinary Services and in 1984

Principal Secretary for Agriculture, Nature Conservation, Veterinary Services and Sea Fisheries. He retired from the Namibia government veterinary services in 1998 and established a consultancy for in the field of veterinary medicine, with special expertise in the field of the evaluation of the quality of veterinary services, veterinary legislation, food hygiene & safety and veterinary public health. In September 2002 he was elected President of the World Veterinary Association (WVA) for three years and during July 2005 he was elected Immediate Past President and Member of the Executive Committee of the WVA until 2008.

Recent activities include being chairman of the OIE (World Organization for Animal Health, Paris, France) which Chairman of the OIE ad hoc Expert Group on Antimicrobial Resistance (since 2010). Dr Schneider is actively involved in the Evaluation of the Quality of Veterinary Services around the world for the OIE as a Senior PVS (Performance of Veterinary Services) and PVSGAP evaluator, having been the Team Leader to a number of OIE member countries around the world, such as Australia, Brazil, Ghana, Kenya, Mozambique, Sri Lanka, Malaysia, Philippines, United Arab Emirates, Vietnam etc..

He is the author of numerous scientific publications and has given papers at various international veterinary congresses. He is the author of the handbook "Animal Health and Veterinary Medicine in Namibia" (1994).

Dr Schneider drafted the first governing legislation for Namibia's veterinary profession in 1984 and served the veterinary profession for many years as President of the Veterinary Association of Namibia and President of the Veterinary Council of Namibia

Dr Schneider has been Council Member of the Namibia Medicines Control Council for 11 years (4 years as Vice-Chair) and 11 years as Chair of the Veterinary Medicines Sub-Committee. At present he is Member of the Council of the Namibia Biosafety Council and member of the Namibia Qualifications Authority (NQA).

Elisabeth Erlacher-Vindel, Head of Science and New Technologies Department, World Organisation for Animal Health, OIE



Dr Elisabeth Erlacher-Vindel graduated from the Veterinary University, Vienna, Austria. She was first employed and obtained her Doctor's Degree in the Institute of Breeding and Genetics (Vienna, Austria) and later worked in Paris in the Institut Pasteur.

After having worked as a field veterinarian in different countries, she worked in the French professional dairy organisation, where she became Head of the Food Safety and Environment Unit and Deputy Director of the Scientific Department and also collaborated with the International Dairy Federation (IDF). She dealt with research and provided advice and expertise

in the field of animal health, food safety, veterinary drugs and environmental issues.

She joined the World Organisation for Animal Health (OIE) in 2008 as Deputy Head of the Scientific and Technical Department and became Head of the Science and New Technologies Department in 2016.

Dr Erlacher-Vindel is also OIEs focal point on tripartite (FAO/OIE/WHO) activities on antimicrobial resistance.

David Sherman, World Organisation for Animal Health, OIE



David M. Sherman, a veterinarian from the USA, received his veterinary degree from the Ohio State University and a MS degree from the University of Minnesota. 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 from 1980 to 1987 and at Tufts University School of Veterinary Medicine from 1987 to 1998. At Tufts, he was also Head of the Section of International Veterinary Medicine.

He is co-author of the textbook, *Goat Medicine*, a second edition of which was published in 2009. He is also the author of *Tending Animals in the Global Village: A Guide to International Veterinary Medicine*, published in 2002.

From 2001 to 2004, Dr. Sherman was the state veterinarian and Chief of the Bureau of Animal Health in Massachusetts. From 2004 to 2009, he worked in Kabul, Afghanistan managing a USAID-funded, nation-wide program to restore basic veterinary service delivery to livestock owners in that war-torn country.

Dr. Sherman has done veterinary consulting in over 40 countries for a variety of international agencies. His field activities include: transboundary animal disease control; animal health service delivery; veterinary and veterinary para-professional education; and goat health and production.

Dr. Sherman currently works full time for the World Organisation for Animal Health (OIE) in Paris where he is the Coordinator of the Veterinary Legislation Support Programme and provides OIE staff support to the OIE *ad hoc* group on veterinary paraprofessionals.

Zeev Noga, Deputy Executive Director, World Veterinary Association



Since September 2012, Zeev has been working for the World Veterinary Association representing the global veterinary profession. He is dealing with different veterinary issues, focusing on international collaboration with a view to strengthen the veterinary profession around the world and to promote animal health, animal welfare and public health globally.

Melba Reantaso, Food and Agriculture Organization of the United Nations



A Philippine national, US permanent resident (green card), Melba Reantaso has three decades of combined experience on aquaculture (small-scale aquaculture), biosecurity governance and aquatic animal health (AAH). She had worked for FAO since 1997 in various capacities and as a full-time staff based at HQ in Rome, Italy from 2004. Prior to joining FAO, she worked as Molluscan Pathologist at the Oxford Laboratory, Maryland Department of Natural Resources from 2002-2004, Regional Aquatic Animal Health Specialist at the Network of Aquaculture Centres in the Asia-Pacific (NACA), Bangkok,

Thailand, from 1999-2002; and retired as a Senior Aquaculturist from the Philippine Bureau of Fisheries and Aquatic Resources (1981-1999).

At FAO, Melba is responsible for aquatic biosecurity and AAH including work on antimicrobial resistance (AMR) in aquaculture. She led a number of international aquatic disease investigation task forces. She conducts expert workshops, training courses, other capacity building activities and develops & implements FAO- and donor-funded projects on various aspects of biosecurity/AAH including development of national strategies on AAH with a global coverage. Recently completed projects were for the governments of Suriname, Indonesia, Oman at national level and countries of the Gulf and Western Balkan regions at regional level. Recently completed projects include the following: (1) two FAO inter-regional Technical Cooperation Projects, (2) two FAO TCP facilities, namely: (i) a National Strategy on AAH for Malaysia and (ii) TCP/PL/3601/C1 that strengthened biosecurity capacity of Palau, (3) a project funded by the Africa Solidarity Trust Fund (EUS active surveillance, risk analysis and national strategy development for 8 countries in southern Africa region), (4) a project funded by multi-donor on antimicrobial resistance - Strengthening capacities, policies and national action plans on prudent and responsible use of antimicrobials in fisheries. She also initiated discussions on the potential for applying Progressive Management Pathway (PMP), used for livestock diseases, for improving aquaculture biosecurity. Ongoing work include two projects on Tilapia Lake Virus (TiLV), AMR in aquaculture risk assessment and a couple of other projects related to biosecurity in several countries in Africa.

She represents FAO to the meetings of the OIE Aquatic Animal Health Standards Commission and one of the Working Groups of the UN Interagency Coordination Group on Antimicrobial Resistance (IACG), i.e. IACG working group 4 on Innovation, R&D and Access. A published professional, she served as Chief Editor of the FAO Aquaculture Newsletter since 2006-2016, editor of the newsletter of the Fish Health Section of the Asian Fisheries Society (FHS/AFS) and 3-time editor of the Proceedings of the Diseases in Asian Aquaculture (DAA V, DAA VI and DAA VII). She was Secretary (1999-2002) and Chairperson (2002-2005) of the Executive Committee of the FHS/AFS and regularly invited as keynote conference speaker. Melba graduated from the University of the Philippines at Los Banos with a BSc in Zoology, has M.Sc. in Biology (De La Salle University) in the Philippines, Ph.D. Fisheries Science (Fish Pathology) (University of Tokyo) and post-doc (Nippon Veterinary and Life Science University) qualifications on AAH, the latter two both in Japan, as a Japanese Monbusho government scholar and as a fellow of the Japanese Society for the Promotion of Science (JSPS), respectively.

Session 5

Jordi Torren Edo, Head of Service of Veterinary Risk and Surveillance, Veterinary Medicines Department of the European Medicines Agency (EMA), UK



Graduated from the Veterinary Faculty of the Autonomous University of Barcelona, Masters in Regulatory Affairs and Pharmacology. After working a Regulatory Affairs Manager in Barcelona, joined the European Medicines Agency (London) in 2000.

At the Agency he is the Head of the veterinary pharmacovigilance and antimicrobial resistance service. He coordinates activities related to the use of antimicrobials in veterinary medicine and development of antimicrobial resistance. Coordinator of the European surveillance of veterinary antimicrobial consumption (ESVAC). During the last years the European Medicines Agency has produced the following reports; AMEG (Antimicrobial Ad Hoc Expert Group),

JACRA (joint report on the integrated analysis of the consumption of antimicrobial agents and occurrence of antimicrobial resistance in bacteria from humans and food-producing animals) and the RONAF (measures to reduce the need to use antimicrobial agents in animal husbandry in the European Union), as well as reflection papers on different classes of antimicrobials. He assists the Committee for Medicinal Products for Veterinary Use (CVMP) in antimicrobial policies at European and international level, including Codex Alimentarius. Expert on antimicrobial consumption in animals for the OIE and WHO (AGISAR).

Delfy Góchez, World Organisation for Animal Health, OIE



Delfy Góchez is a veterinarian from El Salvador who works as a Chargée de mission at the Science and New Technologies Department at the World Organisation for Animal Health (OIE), Paris Headquarters. Her principal works is the validation and analysis of the responses to the OIE Global Database on Antimicrobial Agents Intended for Use in Animals.

Previously, Delfy was the coordinator for the registration, imports, exports and pharmacovigilance for veterinary products for the Ministry of Livestock in El Salvador, a OIE National Focal Point for Veterinary Products, and a member

of Mirror Codex Committee on Residues of Veterinary Drugs in Foods in El Salvador.

Carmem Pessoa, World Health Organization



Dr Carmem L. PESSOA-SILVA, MD, PhD, is Brazilian, joined the World Health Organization (WHO) in 2005.

From January 2005 to November 2011 Dr Pessoa-Silva was the Team Lead for the WHO programme “Infection Prevention and Control in Health Care”.

In the context of renewed efforts to combat antimicrobial drug resistance, WHO established the Global Antimicrobial Resistance Surveillance System (GLASS) and appointed Dr Pessoa-Silva to lead the new programme.

Prior to WHO, Dr Pessoa-Silva gathered 20 years of professional experience as an infectious diseases physician in Brazil where she is an Associate Professor of

Medicine at the Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.

Major WHO publications coordinated by Dr Pessoa-Silva include:

- Global antimicrobial resistance surveillance system (GLASS) report - Early implementation 2016-2017 (2018)
- Worldwide country situation analysis: response to antimicrobial resistance (2015)
- Global antimicrobial resistance surveillance system manual for early implementation (2015)
- Antimicrobial resistance: global report on surveillance 2014 (2014)
- WHO Guidelines: Infection prevention and control of epidemic- and pandemic-prone acute respiratory infections in health care (2014)
- WHO guidelines “Natural ventilation for infection control in health-care settings” (2009)
- Core components for infection prevention and control programmes (2008)

She is also the author of several scientific papers, including (selected sample):

- [WHO Global Antimicrobial Resistance Surveillance System early implementation 2016-17.](#) *Lancet Infect Dis.* 2018
- Infection prevention and control of the Ebola outbreak in Liberia, 2014–2015: key challenges and successes. *BMC Medicine*, 2016.
- Moving forward in tackling antimicrobial resistance: WHO actions. *Sex Transm Infect*, 2013.
- The WHO policy package to combat antimicrobial resistance. *Bull World Health Organ* 2011.
- Reduction of health care associated infection risk in neonates by successful hand hygiene promotion. *Pediatrics*, 2007.

- Behavioural considerations for hand hygiene practices: the basic building blocks. *J Hosp Infection*, 2007.
- Control of community-associated methicillin-resistant *Staphylococcus aureus* in neonatology. *J Hosp Infect*, 2006.
- Epidemiology of endemic extended-Spectrum beta-lactamase producing *Klebsiella pneumoniae* at an intensive care unit in Rio de Janeiro. *Microb Drug Resist*, 2006.
- Extended-spectrum beta-lactamase-producing *Klebsiella pneumoniae* in a Neonatal Intensive Care Unit: Outbreak Description and Risk Factors for Infection and Colonization. *J Hosp Infection*, 2003.

Sarah Cahill, Senior Food Standards Officer, Joint FAO/WHO Food Standards Programme



With a background in microbiology, Sarah Cahill worked in the dairy and beverage sectors before going on to receive her Ph.D. in food microbiology from University College Dublin, Ireland in 1999. She subsequently joined the Food and Agriculture Organization of the United Nations in Rome, Italy where she played a key role in the establishment of the Joint FAO/WHO Expert Meetings on Microbiological Risk Assessment (JEMRA) in the early 2000's. Until April 2018 led the FAO JEMRA Secretariat, responsible for overseeing the provision of scientific advice on microbiological hazards in a wide range of foods, from fresh produce to meat and fish. She was an active participant in the Codex standard setting processes, facilitating the consideration of scientific advice in international standard setting. In addition, she has worked on the provision of scientific advice to other UN agencies (WFP, UNICEF) on the safety of specific foods destined for food insecure and vulnerable populations. She also worked on increasing the accessibility of risk assessment and scientific advice to the FAO and Codex Membership through the development of tools and approaches to support evidence-based decision-making in the wider management of food safety issues as well as capacity development activities in member countries. In recent years she has used her experience in microbiological food safety issues to support the FAO work on antimicrobial resistance (AMR) in the food and agriculture sector. As the food safety focal point on AMR she was involved in the development of FAOs action plan on AMR and served as the technical lead for a global capacity development project to engage the food and agriculture sector in countries in sub-Saharan Africa and Asia in efforts to address AMR. She also worked on the development of scientific advice on AMR to support the work of the recently established Codex Task Force on AMR. Since May 2018 she is working with the Secretariat of the Codex Alimentarius as a Senior Food Standards Officer, where she continues to follow issues related to AMR as well awareness raising on the development and role of Codex standards and improved engagement in their development and subsequent uptake.

She is a regular contributor to international food safety conferences and an active member of the International Association of Food Protection.

Awa Aidara-Kane, Coordinator of Foodborne and Zoonotic Diseases Unit, Department of Food Safety and Zoonoses, World Health Organization



Dr Awa Aidara-Kane holds a PhD in Microbiology from University of Technology of Compiègne, France. She has been associate Professor of Bacteriology and Virology in Senegal and Head of the Laboratory of Research in Bacteriology and Food Hygiene and Environment at Pasteur Institute in Senegal.

Dr Awa Aidara-Kane joined WHO in 2002 and is Coordinator of Foodborne and Zoonotic Diseases Unit, in the Department of Food Safety and Zoonoses at the World Health Organization in Geneva,

Switzerland.. She is leading WHO activities on integrated surveillance of foodborne diseases and containment of Antimicrobial Resistance (AMR) at the human-animal interface. She has established and is coordinating the WHO Advisory Group on Integrated Surveillance of Antimicrobial Resistance (AGISAR) . Awa Aidara-Kane is WHO focal point for FAO/OIE/WHO Tripartite collaboration on Antimicrobial Resistance from the food chain and is leading WHO “One Health” work stream for the implementation of the Global Action Plan on Antimicrobial Resistance.

She has successfully coordinated many WHO guidance documents, guidelines , expert meetings, technical workshops and country projects in the area of foodborne diseases surveillance and antimicrobial resistance.

Leads WHO work on Antimicrobial Resistance at the Human-Animal interface since 2002.

http://www.who.int/foodsafety/areas_work/antimicrobial-resistance/en/

Coordinator of the WHO Advisory Group on Integrated Surveillance of Antimicrobial Resistance (WHO-AGISAR). http://www.who.int/foodsafety/areas_work/antimicrobial-resistance/agisar/en/

WHO Technical focal point for the FAO/OIE/WHO Tripartite collaboration on AMR from the food chain “One Health” Approach. http://www.who.int/foodsafety/areas_work/antimicrobial-resistance/tripartite/en/

Session 6

Carolee Carson, Risk Assessor/Veterinary Epidemiologist, Canadian Integrated Program for Antimicrobial Resistance Surveillance, Centre for Food-borne, Environmental Zoonotic Infectious Diseases, Public Health Agency of Canada



Dr. Carolee Carson received her Doctor of Veterinary Medicine in 1998 and her PhD in veterinary epidemiology in 2010 from the University of Guelph. Her PhD dissertation was on beef cattle antimicrobial use and associations with antimicrobial resistance in *Escherichia coli*; using epidemiological and stochastic mathematical modelling. Carolee began work for the Government of Canada in 2001 and she works there to this day. Her primary work involves antimicrobial resistance risk assessment, antimicrobial use reporting, and linking science to policy for data arising

from the Canadian Integrated Program for Antimicrobial Resistance Surveillance. Internationally with respect to antimicrobial resistance, Carolee has participated on the Codex Intergovernmental Task Force on Antimicrobial Resistance, the Transatlantic Task Force on Antimicrobial Resistance, and as a technical expert for both the World Health Organization and the World Organisation for Animal Health.

Caroline Emond, International Dairy Federation



Caroline was appointed Director General of the International Dairy Federation in February 2018. She is from Quebec, Canada. She is a lawyer, has been a diplomate and has 25 years’ experience in senior executive and public affairs roles in private, public and the not-for-profit sectors. Having worked nine years in the Canadian dairy industry and abroad, she has a deep understanding of the dairy sector worldwide from various angles (producers, processors, research, policy and regulation, promotion) and experience with international organizations such as WTO, FAO, ISO and Codex.

Olivier Espeisse, International Egg Commission



Olivier Espeisse, DVM, MBA, has graduated from Maisons-Alfort Veterinary School in 1981 and from Bowling Green State University in 1989. After a decade in dairy practice, he has worked in many international positions for the industry, and has in particular been representing several trade associations in Codex Alimentarius, OIE or with FAO on the topic of antimicrobial resistance. He has been a long-standing industry representative at the OIE Ad Hoc Group on Antimicrobial Resistance. Dr Espeisse is representing the International Egg Commission at this meeting. Dr Espeisse is Public Affairs Director for Ceva Animal Health.

Peter Bradnock, International Poultry Council



Peter Bradnock is a policy affairs advisor to the International Poultry Council based in the UK. He was the Chief Executive of the British Poultry Council for 20 years prior to his retirement in 2013.

Before joining the UK poultry sector, Peter was a civil servant in the New Zealand Department of Trade and Industry working on international trade policy, in particular, trade access to the European Union. He held New Zealand diplomatic postings in Brussels, Rome and London before joining the British Poultry Council in 1991.

Eduardo M. Leaño, Network of Aquaculture Centres in Asia-Pacific (NACA)



Dr. Eduardo Leaño is currently the Coordinator of Aquatic Animal Health Programme of NACA and is responsible for providing specialist advice on aquatic animal health management, assessment of aquatic animal health status, institutional development, and disease surveillance and reporting. He also serves as Secretary to the Asia Regional Advisory Group on Aquatic Animal Health (AG). His specialization is on aquatic animal health and marine and freshwater mycology. Before joining NACA in April 2010, he has worked as Researcher/Scientist at the Fish Health Section of SEAFDEC Aquaculture

Department, Philippines (1989-2001), and as Research Fellow at Taiwan Fisheries Research Institute (2002-2003) and National Taiwan Ocean University (2004-2010) in Keelung, Taiwan. He obtained his PhD degree (Applied Microbiology) at the City University of Hong Kong (1999), his MSc (Fisheries) at the University of the Philippines in the Visayas (1993) and his BSc (Inland Fisheries) at Central Luzon State University (1989). He has co-edited four books in aquaculture, and published >50 articles in international/national journals, proceedings and aquaculture magazines.

Session 7

Jean-Pierre Orand, Director, French agency for veterinary medicinal products (Anses-ANMV), (French agency for food, environmental and occupational health safety)



Jean-Pierre Orand has been working as Director of the French Agency for Veterinary Medicinal Products (Anses-ANMV) since 2010. Anses-ANMV is an OIE (World Organization for Animal Health) collaborating centre for veterinary medicinal products. He has several responsibilities in the HMA Network as a member of the HMA management group, co-chair of the task force on availability of vaccines and is a member of the EMA/HMA Telematics Management Board. Dr Orand holds a degree in veterinary medicine.

He worked in food safety, veterinary medicinal products, international trade and foreign affairs for the French ministry of agriculture for 19 years. He has negotiated several

cooperation protocols, set up twinnings with 3rd countries and was the official delegate for France at the World Trade Organization for the SPS agreement.

Norbert Mencke, HealthforAnimals



Norbert Mencke DVM, graduate from Veterinary School Hannover, Germany (Stiftung Tierärztliche Hochschule Hannover). Doctoral thesis conducted at the Institute for Parasitology, Tierärztliche Hochschule Hannover in conjunction with the Department of Agriculture Adelaide, Australia on species differentiation of Sarcocystis. He holds a veterinary specialization degree in parasitology (Fachtierarzt für Parasitologie) and is a Diplomat of the European Veterinary Parasitology College (EVPC).

Current position: Head of Policies & Stakeholder Affairs at Bayer Animal Health. Hold previously various positions in the animal health industry, like Veterinary

Scientific Affairs, Research and Development at Bayer. His research work focused around the discovery of insecticidal/ acaricidal as well as anthelmintic compounds, leading to the discovery of the anthelmintic class of cyclodepsipeptides, with emodepside as the only active of this class, and marketed. Furthermore, he worked on the combination of actives to support life-cycle management and founded the CVBD (Companion Vector-Borne Diseases) World Forum, an annual scientific meeting since 2006.

Professional activities: Lecturing parasitology at the Veterinary School Hannover (Institute for Parasitology). Memberships: German Society for Parasitology (DGP) and Germany Veterinary Society, Parasitology (DVG-Para), the Australian Society for Parasitology (ASP), the American Association of Veterinary Parasitologists (AAVP), and the American Heartworm Society (AHS). Invited to speak at numerous national and international scientific meetings and published more than 80 papers in peer-reviewed veterinary journals.

Satoko Kagawa, Technical Officer, Compliance and Facilitation Directorate, World Customs Organization



Ms. Satoko Kagawa is a Technical Officer in the World Customs Organization (WCO), established in 1952 as the Customs Co-operation Council (CCC), whose mission is to enhance the effectiveness and efficiency of Customs administrations. The WCO represents 182 Customs administrations across the globe that collectively process approximately 98% of world trade. She is responsible for matters relating to trade facilitation and Customs procedures within the WCO, with a special focus on the comprehensive review of the Revised Kyoto Convention and the use and exchange of electronic data for efficient Customs procedures and effective Customs

controls.

In her previous post as a Deputy Director in Japan's Ministry of Finance, Ms. Kagawa worked on modernization of Customs procedures by utilizing Customs declaration data as well as Big Data analysis and by introducing modern inspection techniques.

She holds a Master of Business Administration (MBA) degree from the University of Virginia - Darden School of Business.

Patrick Vudriko, Makerere University



Dr. Patrick is veterinary doctor with a masters' degree in pharmacology and a PhD in veterinary sciences from Gifu University in Japan. His thesis focused on strategies for control of tick acaricide resistance (TAR), and he pioneered evidence-based tick control in Uganda. He is a lecturer of Veterinary pharmacology and toxicology with over 11 years of teaching, research and community outreach in the College of Veterinary Medicine, Animal Resources and Biosecurity (COVAB), Makerere University. Dr. Patrick is also the founder of Research Center for Tropical Diseases and Vector Control (RTC), one of the most active research facility in COVAB with seven research themes and over 15 scientists. His research interests include elucidation of molecular basis of pesticide/drug resistance in arthropod vectors (ticks), parasites and bacteria, search for novel diagnostic antigens/markers and strategies for effective control of tropical animal diseases and vectors. His ongoing research includes developing strategies for effective control of tick acaricide resistance and investigating TAR-anthelmintic-antibiotic resistance complex in dairy farms in Uganda. Patrick has a wide experience in university-led community engagements for social development through evidence-based research and interventions. At national level, he has served as a board member for Pharmacy in the Ministry of Health for 3 years and he also collaborates with the drug regulatory authority on veterinary medicines regulatory affairs. He has also coordinated joint one health international summer school programs between USA based universities and COVAB. He is a founding chair of the Africa Obihiro Research Network (AORNet), whose mission is research for development of Africa by Africans. Patrick is a member of the Uganda Veterinary Association, Uganda Pharmacological Society and Japanese Society of Tropical Medicine.

Sasi Jaroenpoj, Animal Feed and Veterinary Products Control Division Department of Livestock Development



Sasi Jaroenpoj is an Expert Veterinary Officer, Division of Animal Feed and Veterinary Products Control (AFVC), Department of Livestock Development (DLD). He earned a Doctor of Veterinary Medicine from Chulalongkorn University. He also acting as OIE focal point for Veterinary Products.

He has over 25 years experience in the field of Veterinary Medicinal Products including national residual monitoring program and food safety policy. According to global agenda on AMR, His department has planned and coordinated with Ministry of Public Health for the antibiotic policy, AMR and AMU containment program in Livestock Sector following the National Strategic Plan for AMR of the Department of Livestock Development and Ministry of Agriculture and Cooperatives, Thailand

Khadija Id Sidi Yahia, National Office of Sanitary Safety of Veterinary Drugs



Born in France (Chatelleraut) on October 1959. Veterinary doctor, laureate of the Agronomic and Veterinary Institute Hassan II in Rabat (04/01/1984) in Morocco.

Recruited by the Ministry of Agriculture in February 1984 with professional experience focused mainly in the areas of the veterinary drug (analysis, instruction, registration, inspection) and laboratory (analyst, laboratory management, quality audits, coordination).

From 1 January 2010, head of the Division of Pharmacy and Veterinary Inputs, in charge of the control of veterinary pharmacy and other products of veterinary medicine and surgery and the coordination of actions related to pharmacy veterinary.

Since 2010, veterinary medicinal products focal point for OIE and antimicrobial resistance for FAO.

Since 04/01/2017, Director of Inputs and Laboratories at the National Office of Sanitary Safety of Veterinary Drugs in charge of the veterinary drug, pesticides and other agricultural inputs and the coordination of laboratories.

Federico Alberto Luna, Directorate of Veterinary Products, National Agrifood Health and Quality Service (SENASA)



Dr Federico Luna holds office as Director in the Veterinary Products Directorate since 2017. Previously, he acted as Technical Supervisor at the same area, under the National Directorate of Agricultural Chemicals, Veterinary Products and Food.

Dr Luna has been participating in the development and implementation of the antimicrobial resistance monitoring surveillance system currently in place.

Graduated as veterinarian in 2006 at the Faculty of Veterinary Sciences of the University of Buenos Aires, he

also obtained a degree as Food Safety Specialist at the Faculty of Veterinary Sciences of the National University of La Plata in 2012.

He has been also appointed as OIE National Focal Points for Veterinary Medicines since 2010.

Session 8

Donald A. Prater, Assistant Commissioner for Food Safety Integration, U.S. Food and Drug Administration, Office of Foods and Veterinary Medicine



Dr. Donald A. Prater is the Assistant Commissioner for Food Safety Integration in the Office of Foods and Veterinary Medicine (FVM). He is the principal spokesperson on behalf of the FVM Program for imports discussions with external stakeholders, including foreign governments, as well as being responsible for import-related strategic resource planning activities across FDA's Center for Food Safety and Applied Nutrition (CFSAN) and Center for Veterinary Medicine (CVM), and in coordination with FDA's Office of Global Regulatory Operations and Policy (GO).

Previously, Dr. Prater was Director of FDA's Europe Office in Brussels, Belgium and the Department of Health and Human Services (HHS) Country Representative to the European Union. Dr. Prater received a Doctor of Veterinary Medicine from the Virginia-Maryland Regional College of Veterinary Medicine (Government and Corporate track) in 1996. Following a three-year residency in anatomic pathology, he joined FDA's Center for Veterinary Medicine in 1999 as a Veterinary Medical Officer. He served in several roles including Leader of the Aquaculture Drugs Team, CVM Pathologist, and Director of the Division of Scientific Support.

Adnane Remmal, Sidi Mohamed Ben Abdellah University, Fez



Adnane Remmal, Professor of Biology at the Sidi Mohamed Ben Abdellah University of Fez, winner of the "Innovation Prize for Africa 2015" prize awarded by the "African Innovation Foundation" (Zurich, Switzerland), and the "European Inventor Award 2017" awarded by the European Patent Office (Munich, Germany). Adnane Remmal devoted 30 years of his life (1987-2017) to the development of useful solutions for treating patients with resistant germs infections and other solutions to prevent the development of resistance from the environment and the environment.

food chain.

Cyril Gay, Senior National Program Leader, Animal Production and Protection, Agricultural Research Service, United States Department of Agriculture



Dr. Gay obtained a B.Sc. in Chemistry and a Doctor of Veterinary Medicine from Auburn University, and a Ph.D. in Microbiology from The George Washington University. Dr. Gay has worked in the animal health research field for the last 25 years holding several positions of increasing responsibility in the federal government and the pharmaceutical industry. As Chief, Biotechnology Section, Center for Veterinary Biologics (CVB), United States Department of Agriculture (USDA), Dr. Gay developed the procedures for licensing molecular vaccines that led to the first license for a live recombinant vectored vaccine. In the pharmaceutical industry (SmithKline Beecham Animal Health and Pfizer Animal Health) Dr. Gay led several cross-functional teams that successfully developed and licensed veterinary vaccines for companion animals and livestock. As Director, Global Product Development, Pfizer Inc., Dr. Gay developed strategic and tactical plans that interfaced R&D, clinical development, manufacturing, marketing, and product life-cycle management. Dr. Gay joined Agricultural Research Service (ARS), USDA, in 2002. Dr. Gay currently holds the position of Senior National Program Leader and provides program direction and national coordination for the Department's intramural animal health research program, with focus on eight research laboratories located in Ames, Iowa, East Lansing, Michigan, Clay Center, Nebraska, Athens, Georgia, Orient Point, New York, Beltsville, Maryland, Pullman, Washington, and Manhattan, Kansas. Dr. Gay provides technical support within the interagency in the implementation of the President's National Strategy for Countering Biological Threats, including the National Bio and Agro Defense Facility (NBAF), and the President's National Strategy for Combatting Antimicrobial Resistant Bacteria (CARB). Dr. Gay was the 2010 recipient of the USDA Secretary's Honors Award for interagency response to the pandemic H1N1 influenza outbreak; the ARS Special Administrator's Award for outstanding and rapid research support for pandemic H1N1; the USDA Secretary's Honor Award for Emergency Response to the 2013 Chinese H7N9 avian influenza outbreak, and received a U.S Presidential Rank Award in 2017.

G rard Moulin, French Agency for Food, Environmental and Occupational Health and Safety (Anses), National Agency for Veterinary Medicinal Products



G rard MOULIN is a microbiologist by training. He is Research Director in the French Agency for Food, Environmental and Occupational Health & Safety (Anses) and Deputy Director of the National Agency for Veterinary Medicinal Products (Anses-ANMV - Foug res - France).

His main areas of expertise are antimicrobial resistance, pharmacokinetics and residues of antimicrobials, Veterinary pharmaceutical legislation, benefit/risk analysis.

He is involved in the Veterinary and Human French action plans on antimicrobial resistance.

He is responsible of the French survey of veterinary antimicrobial sales and part of different working groups on antimicrobial resistance.

At the European Level, he was Chairman of the Committee of Veterinary medicinal products (European Medicine Agency) between 2003 and 2010, and chairman of the JIACRA (Joint inter-agencies consumption and resistance analysis EU expert working group) between 2014-2015. He is currently chairman of the AMEG (Antimicrobial expert group) at the European Medicine Agency. He is also the French representative for the ESVAC network (European Surveillance of Antimicrobial Consumption).

At the international level, he participated as expert to tripartite WHO/OIE/FAO consultations on antimicrobial resistance and to the Codex task force on antimicrobial resistance (co-chair of a working group on risk management).

He is involved on a regular basis in OIE activities on antimicrobial resistance and in the OIE data collection of antimicrobials.

He is a member of the WHO-AGISAR (Advisory Group on Integrated Surveillance of Antimicrobial Resistance). He has also be appointed as a member of the UN Interagency coordination group on antimicrobial resistance (IACG).

He also participates to different initiatives related to capacity building and training.

Jonathan Rushton, University of Liverpool



Jonathan Rushton is an agricultural economist who specialises in the economics of animal health and food systems. His principal research interests are the: Global Burden of Animal Diseases (GBADs) where he leads a global program; economics of antimicrobial use and resistance in livestock; and assessment of the multidimensionality of food quality and public health. He embraces One Health approaches in the search for solutions to society's health problems.

Jonathan is based at the Institute of Infection and Global Health, University of Liverpool and is part of the N8 Agrifood programme

(<http://www.n8research.org.uk>). He is also adjunct Professor in the School of Behavioural, Cognitive & Social Sciences of the University of New England, Australia.

Michael Ryan, Organisation for Economic Co-operation and Development



Dr. Ryan is a Senior Policy Analyst in the Trade and Agriculture Directorate, OECD. Currently, he leads the work on antimicrobial use and antimicrobial resistance in food producing animals. Prior to this, he was Head of the OECD Codes and Schemes. As head of the Codes & Schemes he led the work on developing and implementing quality and safety standards on agricultural inputs and products. Dr. Ryan also worked as an agricultural policy analyst and contributed over many years to the monitoring and evaluation of policies in member and non-member countries. In addition, he headed a team that had

responsibility for the preparation and release of several agricultural policy reviews.

Session 9

Franck Berthe, World Bank



Franck Berthe is a Senior Livestock Specialist at the World Bank Agriculture Global Practice. A One Health practitioner, Franck works across the agriculture, environment and public health sectors on health issues at the human animal environment interfaces, including animal health and welfare, food security, nutrition, food safety, zoonoses, antimicrobial resistance and pandemics preparedness. He

is also the coordinator of the Livestock Global Alliance – bringing together FAO, IFAD, ILRI, OIE and WB, to connect knowledge and operations for safer, fairer and more sustainable livestock. Franck Berthe has contributed to the World Organisation for Animal Health (OIE) since 1996, through specialized Commissions and ad hoc groups. He is currently Vice-President of the OIE Biological Standards Commission.

Before joining the Bank, Franck Berthe was Head of the Animal and Plant Health Unit at the European Food Safety Authority (EFSA), assessing animal and plant production systems and practices with respect to primary production, ecosystems and public health. His job was to provide scientific advice to the EU risk managers and decision makers on a wide range of risks along the food chain. Prior to coming to Italy in 2007, he was Associate Professor at the Atlantic Veterinary College (UPEI) and Canada Research Chair in Aquatic Health Sciences, exploring host pathogens relations in their environment. From 1994 to 2004, Franck has led active research in aquatic animal health at the French institute for the exploitation of the sea (IFREMER) in France and overseas territories.

A native of France, Franck received a doctorate of veterinary medicine (DVM), and a PhD degree in molecular taxonomy and epidemiology. He holds a Pasteur Institute diploma in bacteriology.

Charles R. Penn, Fleming Fund



Charles Penn is currently working as an advisor on antimicrobial resistance for the Fleming Fund at the UK Department of Health & Social Care. Prior to this he worked at the World Health Organization, Geneva where he was responsible for guidance on the use of antivirals in influenza management during the 2009-2010 influenza pandemic, and for the development of the global action plan on antimicrobial resistance adopted by the World Health Assembly in May 2015. He also chaired WHO's Guidelines Review Committee, which monitors the quality of all of WHO's health guidelines, from 2011-2015.

Charles has extensive experience in infectious diseases, gained through a PhD in virology from the University of Cambridge, followed by research on human and avian influenza viruses at Cambridge University and the UK Institute for Animal Health. In 1988 Charles joined Glaxo (now GSK) to lead research on influenza and HIV, first as a Senior Research Associate and later as Senior Medical Strategy Head. During this time he saw two new antiviral medicines from discovery through to regulatory approval (lamivudine for HIV, and zanamivir for influenza),

In 1998 he moved to the (now) Public Health England Centre for Emergency Preparedness and Response, as Director for Research and Development. Activities there included infectious disease diagnosis through the Special Pathogens Reference Unit, vaccines & biotherapeutics research and development, and epidemic and intervention modelling in infectious diseases.

Henk Jan Ormel, Senior Policy Advisor to the Chief Veterinary Officer, Food and Agriculture Organization of the United Nations



Henk Jan Ormel graduated from The Faculty of Veterinary Medicine of the State University of Utrecht in 1983. He became co-owner of a mixed practice in the southern part of the Netherlands and practised as a general practitioner specialized in dairy cows, pigs and surgery of companion animals. In 1992 he moved to the eastern part of the Netherlands and became co-owner of a private practice. From 1995-2002 he was, besides his work as veterinary practitioner, a Board Member of AUV, a Dutch Veterinary Medicines Corporation and from 1999-2002 he was Chairman of the Board. In 2002 Henk Jan Ormel was elected to the Dutch Parliament out of anger against the non-vaccination policy of the EU during the outbreaks of foot-and-mouth disease of the time. In

Parliament he was spokesman for his political party (CDA: Christian Democratic Party) on animal health and animal welfare but also on human medical-ethical issues, biotechnology, European and Foreign affairs. From 2007 through 2010 he was the Chairman of the Foreign Affairs Committee of the Second Chamber of the Dutch Parliament. From 2008 to 2010 he was also Vice President of NATO Parliamentary Assembly. Upon resigning from Parliament in September 2012, Her Majesty the Queen bestowed upon him the Knight in the Order of Oranje Nassau. October 2012 he was seconded by the Dutch Ministry of Agriculture to the Food and Agriculture Organization of the United Nations (FAO), where he presently serves in the Animal Health Service of the Agricultural Department (AGAH) as Senior Policy Advisor to the Chief Veterinary Officer, one of the coordinators of FAO's working group on Anti-Microbial Resistance (AMR) and secretary on behalf of FAO at the Tripartite One-Health cooperation between WHO, OIE and FAO. He represents the Animal Health Service of FAO in the Global Agenda for Sustainable Livestock (GASL) and was one of the initiators of Livestock Anti-Microbial Partnership (LAMP), one of the Action Networks of GASL, facilitating a multi-stakeholder approach of Anti-Microbial Resistance(AMR). He also coordinates FAO activities in the Global Health Security Agenda and the Joint External Evaluations of the WHO International Health Regulations.