### FRIDAY 22 JUNE 2018

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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>11:00-12:00</td>
<td>CONGRESS PRESS BRIEFING</td>
<td>SALON C-D</td>
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<td><strong>CONGRESS CO-CHAIRS:</strong> Prof. Ab Osterhaus and Prof. John Mackenzie</td>
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<td>The congress press briefing is open for members of the press attending the congress.</td>
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<td>Congress co-chairs Prof. Ab Osterhaus and Prof. John Mackenzie will provide an overview</td>
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<td>of the congress programme, highlighting key lectures and elaborating on major topics.</td>
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<td>The scope and objectives of the congress will be put in the wider framework of the threats</td>
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<td></td>
<td>of emerging and re-emerging diseases and the challenges the world faces when addressing</td>
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<td></td>
<td>antimicrobial resistance. Members of the press receive detailed information about</td>
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<td>speakers' backgrounds and expertises and on how to contact them during the congress.</td>
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<td>The press briefing will not be recorded and can therefore not be shared with</td>
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<td>journalists who are not attending the congress.</td>
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<td>12:00-14:30</td>
<td>SPECIAL PLENARY SESSION-open to non-congress attendees</td>
<td>SALON A-B</td>
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<td></td>
<td><strong>CHRONIC WASTING DISEASE—LESSONS LEARNED FROM THE BSE CRISIS</strong></td>
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<td><strong>CHAIR:</strong> Adriano Aguzzi, director Institute of Neuropathology, University Hospital</td>
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<td></td>
<td>Zürich, Switzerland</td>
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<td></td>
<td>**1. First evidence of intracranial and peroral transmission of Chronic Wasting Disease</td>
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<td></td>
<td>into Cynomolgus macaques: a work in progress</td>
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<td>Stephanie Czub, Canadian Food Inspection Agency, Alberta, Canada</td>
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<td>**2. Battling Chronic Wasting Disease in Norway: an update on management and disease</td>
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<td>development after two years on the map</td>
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<td>Carlos Gonçalo das Neves, Head of Food Safety &amp; Emerging Health Threats, Norwegian</td>
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<td>Veterinary Institute, Norway</td>
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<td>**3. Detection of prions associated to Chronic Wasting Disease in animal blood and in</td>
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<td>association to environmental materials</td>
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<td>Claudio Soto, Director the George and Cynthia Mitchell Center, University of Texas/USDA,</td>
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<td><strong>4. Investigations of Chronic Wasting Disease strains and transmission barriers</strong></td>
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<td>Glenn Telling, Prion Research Center, Colorado State University, USA</td>
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<td><strong>5. BSE, CWD and alternatively folded forms of the cellular 1 prion protein, PrPc</strong></td>
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<td>David Westaway, Centre for Prions and Protein Folding Diseases, University of Alberta,</td>
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<td><strong>6. Why do we have a prion protein?</strong></td>
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<td>Adriano Aguzzi, director Institute of Neuropathology, University Hospital Zürich,</td>
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<td>14:30-15:00</td>
<td>COFFEE BREAK</td>
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<td>15:00-17:00</td>
<td>SPECIAL PLENARY SESSION</td>
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<th>Time</th>
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<tr>
<td>17:00-18:30</td>
<td><strong>SPECIAL PLENARY SESSION</strong></td>
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<tr>
<td></td>
<td>Potential impact of vaccination on antibiotic usage and antibiotic resistance: the influenza case</td>
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<td><strong>CHAIRS:</strong> Surbhi Malhotra-Kumar, University of Antwerp, Belgium</td>
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<td></td>
<td>Ab Osterhaus, RIZ Hannover, Germany</td>
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<tr>
<td></td>
<td>1. Quantifying the problem of antibiotic resistance</td>
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<td>Surbhi Malhotra-Kumar, University of Antwerp, Belgium</td>
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<td>2. The role of diagnostics and viral vaccines in reducing antibiotic resistance</td>
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<td>3. Assessing the full economic value of vaccines in reducing AMR</td>
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<td>Jonathan Rushton, Professor of Animal Health and Food Systems Economics, University of Liverpool, UK</td>
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<td>4. Vaccination and antibiotic resistance in developing countries</td>
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<td>Speaker to be confirmed</td>
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<td>5. The influenza case: a systematic literature review on the impact of influenza vaccination on antibiotic use</td>
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<td>Marco Goeijenbier, Erasmus Medical Center Rotterdam, The Netherlands</td>
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<td>18:30-20:00</td>
<td><strong>OPENING CEREMONY</strong></td>
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<td>Welcome by the congress chairs</td>
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<td>OPENING LECTURES:</td>
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<td></td>
<td>1. Theresa Tam, Chief Public Health Officer of Canada</td>
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<td>2. Jaspinder Komal, acting Chief Veterinary Officer of Canada</td>
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<td>KEYNOTE ADDRESS:</td>
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<td>One Health for a Challenged World by Nobel Laureate by</td>
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<td>Peter Doherty, University of Melbourne, Australia</td>
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<td>20:00-22:00</td>
<td><strong>WELCOME RECEPTION</strong></td>
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<tr>
<td>07:30-9:00</td>
<td><strong>BREAKFAST PLENARY SESSION</strong></td>
<td>SALON A-B</td>
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<td>09:15-10:15</td>
<td><strong>KEYNOTE LECTURES</strong></td>
<td>THEATRE</td>
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<td>10:15-10:45</td>
<td><strong>COFFEE BREAK</strong></td>
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<td>10:45-12:30</td>
<td><strong>PARALLEL SESSIONS</strong></td>
<td>SALON C-D</td>
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#### ONE HEALTH SCIENCE 1

**Chair:** Linfa Wang, Duke-NUS Medical School, Singapore  
**Co-Chair:** Peng Zhou, Chinese Academy of Sciences

1. Plagiorchis sp. in small mammals of Senegal: an emerging food-borne trematodiasis?  
   Stefano Catalano, Royal Veterinary College, University of London
2. Zika Virus Exposure In Malaysia; A Preliminary Study On Seroprevalence Among Local Population  
   Wan Nabilatul Huda Wan Ghazali, Institute For Medical Research, Malaysia
3. A new concept for de-novo detection of viral pathogens with adaptive diagnostics and integrated data analysis approaches results in the recent discovery of two novel viruses  
   Leonie Franziska Forth, Friedrich-Loeffler-Institut, Germany
4. Novel orthobunyavirus identified in an African child with severe encephalopathy  
   Arthur Wouter Dante Edridge, Academic Medical Center, The Netherlands
5. Seroprevalence of West Nile virus in wild birds in Bangladesh  
   Ausraful Islam, ICDDR,B-Bangladesh

#### ONE HEALTH SCIENCE 2

**Chair:** Ab Osterhaus, RIZ Hannover, Germany  
**Co-Chair:** Nistara Randhawa, One Health Institute UC Davis, USA

1. One Health-oriented outbreak response in Cameroon: A case study of the 2016 Monkeypox outbreak response in Cameroon  
   Moctar Mouchie, MOSAIC, Cameroon
2. Zoonotic Enteric Parasites in Humans, Animals, and Drinking Water in Mongolian Households and Their Associated Risk Factors  
   Anu Davaasuren, The National Center for Communicable Diseases, MOH, Ulaanbaatar, Mongolia
3. Evidence of silent infection of domestic pigs with Highly Pathogenic Avian Influenza H5N1 and H1N1pdm09 in ‘hot spot’ Nigeria: Is a pandemic virus already in the pipeline?  
   Clement Adebajo Meseoko, National Veterinary Research Institute, Nigeria
4. Phylogenetic analysis of viruses detected in mosquitoes, horses and humans supports epidemiological data indicating two different geographical origins for epidemics of encephalitis due to Murray Valley encephalitis virus  
   David William Smith, PathWest Laboratory Medicine WA, Australia
5. Prevalence and characterization of Brucella spp. in slaughter animals in Gauteng Province abattoirs and assessment of zoonotic risk factors posed to abattoir workers  
   Francis Babaman Kolo, University of Pretoria, South Africa
10:45-12:30 **ANTIMICROBIAL AGENTS AND RESISTANCE**

*Use of antibiotics in human and animals, in food and agriculture and the link to AMR and environmental impact*

**CHAIR:** Jorgen Schlundt, Nanyang Technological University, Singapore  
**CO-CHAIR:** Jaap Wagenaar, Utrecht University, The Netherlands

1. Reduced and responsible use of antibiotics in food-producing animal in The Netherlands  
   Christianne J.M. Bruschke, Ministry of Agriculture, Nature and Food Quality, The Netherlands

2. Antimicrobial resistance in wildlife species: the potential for sentinel surveillance in a ONE HEALTH perspective  
   Carlos G. Das Neves, Norwegian Veterinary Institute, Norway

3. Comparative human exposure to antimicrobial-resistant Campylobacter species, Escherichia coli, Salmonella enterica from food animals using integrated assessment modelling: A farm to fork approach  
   Colleen Patricia Murphy, Public Health Agency of Canada

   Olivia Char Lottes, Washington State University, USA

5. Prevalence and Antimicrobial Resistance profile of Salmonella spp. in retail meats of Super Shop: a food safety risk  
   Mohammed Abdus Samad, Bangladesh Livestock Research Institute, Bangladesh

10:45-12:30 **SCIENCE POLICY INTERFACE**

*The IMPACTS of Zoonotic Diseases – Why should OH be of importance to policy makers? Lessons learnt from One Health crises.*

**CHAIR:** John Mackenzie, Curtin University, Australia  
**CO-CHAIR:** Casey Barton-Beravesh, CDC, USA

1. New World Screwworm Eradication in South Florida – A One Health Success Story  
   Lisa Conti, One Health Initiative

2. Ebola: what went wrong and where do we go now?  
   Speaker to be confirmed

3. Rift Valley Fever as a public health emergency  
   Pierre Formenty, Team lead – Viral Haemorrhagic Fevers (VHF), World Health Organization

4. Lessons learned from the H1N1 influenza pandemic: are we prepared for a new outbreak  
   Speaker to be confirmed

12:30-14:00 **LUNCH**

**SPECIAL PLENARY SESSION**

**PREDICT Project**
## PARALLEL SESSIONS

### ONE HEALTH SCIENCE 1

**Diagnostics**

**CHAIR:** Martyn Jeggo, Geelong Centre for Emerging Infectious Diseases, Australia  
**CO-CHAIR:** Dang Xuan Sinh, Center for Public Health and Ecosystem Research, Hanoi, Vietnam

1. Recombinant techniques to address the challenges in development of assays for diagnosis and surveillance of emerging zoonotic diseases  
   **Felicity Jane Burt**, University of the Free State, South Africa

2. Comparison of two RdRp PCR assays for the detection of MERS related Coronaviruses  
   **Sininat Petcharat**, King Chulalongkorn Memorial Hospital, Thailand

3. The accuracy of pre-vaccination screening for Q fever and the extent of exposure – Bayesian latent class analysis  
   **Solomon Meseret Woldeyohannes**, University of Queensland, Australia

   **Willie Abela Githui**, Kenya Medical Research Institute

5. Development of lateral flow immunochromatographic test for multiple detection of Salmonella Species in poultry food product  
   **Rafik Sayed**, Central laboratory for evaluation of veterinary biologics, Egypt

### ONE HEALTH SCIENCE 2

**INTERVENTION STRATEGIES**

**CHAIR:** Sarah Cleaveland  
**CO-CHAIR:** Rachel Hopper, Liverpool School of Tropical Medicine, UK

1. Adapting the determinants of health perspectives to developing and implementing integrated priorities to address social and ecological expectations for fisheries and community health  
   **Craig Stephen**, University of Saskatchewan, Canada

2. Control versus elimination of Taenia solium in eastern Zambia: Preliminary assessment of a two-year interventional program in the Katete and Sinda districts in the Eastern Province of Zambia  
   **Emma Clare Hobbs**, Institute of Tropical Medicine, Antwerp, Belgium

3. An integrated human-animal health approach to reduce the disease burden of psittacosis  
   **Lenny Hogerwerf**, National Institute for Public Health and the Environment, The Netherlands

4. Factors associated with improved uptake of Johne’s Disease control mechanisms on Australian dairy farms: Regulatory insights from evolving control strategies  
   **Paul Douglas Burden**, University of Calgary, Canada

5. Harm reduction: A strategy for One Health action in the face of uncertainty and conflict  
   **Christa Gallagher**, Ross University School of Veterinary Medicine, St. Kitts and Nevis
14:00-15:45  **ANTIMICROBIAL AGENTS AND RESISTANCE**  GALLERY C-D

**Genomic epidemiology / evolution of AMR transmission**

**CHAIR:** Robert Skov, MVZ Synlab, Leverkusen, Germany  
**CO-CHAIR:** Jesper Larsen, Statens Serum Institut, Denmark

1. The human resistome within the Dutch pork production chain, a metagenome-wide study among farmers and slaughterhouse workers  
**Liese Van Gompel,** Utrecht University, The Netherlands

2. Genomic and evolutionary analysis of Clostridium difficile sequence type 11: a genetically diverse lineage of significant One Health importance  
**Daniel R Knight,** University of Western Australia, Australia

3. Whole genome sequencing reveals limited contribution of non-intensive chicken farming to extended-spectrum beta-lactamase producing Escherichia coli colonization in humans in southern Vietnam  
**Trung Nguyen Vinh,** Oxford University Clinical Research Unit, Vietnam

4. Associations between antimicrobial use and the fecal resistome on broiler farms in nine European countries  
**Roosmarijn Luiken,** Utrecht University, The Netherlands

5. Epidemic clones of community-acquired methicillin-resistant Staphylococcus aureus in slaughter pigs, Cuba  
**Michel Baez Arias,** National Centre of Animal and Plant Health (CENSA), Cuba

14:00-15:45  **SCIENCE POLICY INTERFACE**  GALLERY A-B

**Addressing zoonotic diseases at the animal-human-ecosystem interface. What are the threats? How to be prepared?**

**CHAIR:** Ab Osterhaus, RIZ Hannover, Germany

1. Avian Influenza Surveillance in Live Birds Markets in Thailand  
**Ong-orn Prasarnphanich,** United States Centers for Disease Control and Prevention Southeast Asia Regional Office

2. Challenges in Complexity: How Brucellosis Thrives in the Science-Policy Interface Space  
**Darrell Abernethy,** Faculty of Veterinary Science, University of Pretoria

3. Achieving Rabies Zero by 2030  
**Waqas Ahmad,** University of Veterinary and Animal Sciences, Pakistan

4. Future Earth’s Top Ten Challenges for One Health  
**Peter Daszak and William B. Karesh,** EcoHealth Alliance

15:45-16:15  **COFFEE BREAK**
### SATURDAY 23 JUNE 2018

#### 16:15-18:00

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<td><strong>ONE HEALTH SCIENCE 1</strong></td>
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**Social science and politics**

**Chair:** Jonathan Rushton, University of Liverpool, UK  
**Co-Chair:** Mieghan Bruce, Murdoch University, Australia

1. **Antimicrobials In Society: A One Health Approach in Kampala, Uganda**  
   Laurie Denyer Willis, London School of Hygiene and Tropical Medicine, UK

2. **(Re)Claiming Water Stewardship in a Changing Climate – Learning from the Margins**  
   Corinne J Schuster-Wallace, McMaster University, Canada

3. **MAN-IMAL: An experimental One Health degree program around animal-man-food**  
   Francois Meurens, Oniris-Nantes Atlantic National College of Veterinary Medicine, France

4. **Human Behavioural Research at the Animal-Human Interface: Hunting and Trading of Bushmeat in Lao PDR**  
   Soubanh Silithammavong, Metabiota, USA

5. **Evaluation Of One Health-Ness: Insights Into Interdisciplinary And Cross-Sectoral Integration**  
   Simon Rüegg, University of Zurich, Switzerland

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| **ONE HEALTH SCIENCE 2** |

**Pathogenesis 1**

**Chair:** Marietjie Venter, University of Pretoria, SA  
**Co-Chair:** Felicity Burt, University of the Free State, South Africa

1. **Cytokine patterns in Hemorrhagic Fever with Renal syndrome and Crimean-Congo Hemorrhagic Fever**  
   Katerina Tsergouli, Aristotle University of Thessaloniki, Greece

2. **Replication of naturally occurring MERS-CoV protein 4a deletion variants in vitro and in vivo**  
   Mart Matthias Lamers, Erasmus MC, The Netherlands

3. **The effect of antiretroviral naïve HIV-1 infection on the ability of Natural Killer cells to produce IFN-γ upon exposure to Plasmodium falciparum-infected Erythrocytes**  
   Carole Stephanie Sake Ngane, University of Yaoundé I, CIRCB, Cameroon

4. **Chronic ethion exposures and endotoxin interaction induce pulmonary damage and genotoxicity in mice**  
   To be confirmed

5. **Dynamic interaction of rabies virus with endosomes and end binding partners (EB3 and p140cap) of Cytoskeleton**  
   Waqas Ahmad, University of Veterinary and Animal Sciences, Jhang Campus, Pakistan
### 14:00-15:45  **Antimicrobial Agents and Resistance**  
**Real life applications of whole genome sequencing**  
**Gallery C-D**

**Chair:** Surbhi Malhotra-Kumar, University of Antwerp, Belgium

1. **Comparative Genomics of Vancomycin-Resistant Enterococcus spp. isolated from Wastewater Treatment Plants**  
   **Haley Ann Sanderson**, Queen’s University, Canada

2. **Integrating whole genome sequencing data into quantitative microbial risk assessment modeling: a case study for Salmonella Heidelberg resistant to third-generation cephalosporins in Canadian broiler chicken production**  
   **Lucie Collineau**, Public Health Agency of Canada

3. **Whole Genome Sequence Profiling of Antibiotic Resistant Staphylococcus aureus isolates from Livestock and Farm Attendants in Ghana**  
   **Beverly Egyir**, Noguchi Memorial Institute for Medical Research, Ghana

4. **Phenotypic and genomic analysis of antimicrobial resistant E. coli isolated from ready-to-eat food in Singapore**  
   **Siyao Guo**, Nanyang Technological University Food Technology Centre, Singapore

5. **Antibiotic use and biosecurity in pig farming are determinants for antimicrobial resistance, a metagenome-wide association study in nine European countries**  
   **Liese van Gompel**, Utrecht University, The Netherlands

### 14:00-15:45  **Science Policy Interface**

**The drivers of emerging zoonotic diseases**  
**Gallery A-B**

**Chair:** Moira McKinnon, Medical practitioner, Canberra, Australia

1. **The migration, climate change, and vector-borne disease nexus**  
   **Kanya C. Long**, World Bank

2. **AMR containment and Prevention considering the Drivers of EID in Thailand**  
   **Suwit Wibulpolprasert**, Ministry of Public Health, Thailand

3. **The Long and Hard Road to Evidence Based policy**  
   **Bonnie Henry**, Provincial Health Officer British Columbia, Canada

4. **Communicating the evidence to policy makers and populations. Who is the right audience?**  
   **Speaker to be confirmed**

### 18:00-19:30  **Poster Session**

- Opportunity for congress delegates to interact with poster authors
- Wine and cheese, offered by the organizers
## SUNDAY 24 JUNE 2018

### 07:30-9:00 BREAKFAST PLENARY SESSION

**Global Perspectives on Health and Security and the Future of Biological Threat Reduction**

*Organized by the Weapons Threat Reduction Program, Global Affairs Canada*

### 09:15-10:15 KEYNOTE LECTURES

**THEATRE**

1. Lecture title to be confirmed, **Michael Ryan**, *World Health Organization*
2. From zoonoses to pandemics: lessons learned from HIV, **Mark Feinberg**, *International AIDS Initiative*

### 10:15-10:45 COFFEE BREAK

### 10:45-12:30 PARALLEL SESSIONS

**ONE HEALTH SCIENCE 1**

**SALON A-B**

**CHAIR:** **Rita Colwell**, *Johns Hopkins University Bloomberg School of Public Health, USA*

**CO-CHAIR:** **Antar Jutla**, *West Virginia University, USA*

1. Quantifying the health, economic, and ecosystem impacts of land-use change as a driver of disease emergence in Southeast Asia  
**Carlos Zambrana-Torrelio**, *EcoHealth Alliance, USA*

2. Impacts of urbanization and conversion of rainforests into large industrial oil palm plantations on the ecology of Aedes vectors in arbovirus foci, Côte d'Ivoire  
**Julien Zahouli Bi Zahouli**, *Centre Suisse de Recherches Scientifiques en Côte d'Ivoire, Ivory Coast*

3. The use of a nationwide pig movement network to predict the spatial risk of Nipah virus outbreaks in Thailand  
**Anuwat Wiratsudakul**, *Faculty of Veterinary Science, Mahidol University, Thailand*

4. Ecosystem Change and Zoonoses Emergence  
**Barry John McMahon**, *University College Dublin, Ireland*

5. Identification of molecular determinants of aquatic and terrestrial morbillivirus cross-species infections  
**Wendy Karen Jo Lei**, *University of Veterinary Medicine Hannover, Germany*
### SUNDAY 24 JUNE 2018

#### 10:45-12:30  ONE HEALTH SCIENCE 2

**One health in underprivileged communities**

**Chair:** Mark Rweyemamu, Director of the Southern African Centre for Infectious Diseases and Surveillance (SACIDS)

**Co-chair:** Rafael Maciel de Freitas, Instituto Oswaldo Cruz, Brazil

1. Molecular detection and characterization of Anaplasma phagocytophilum strains associated with different hosts in Bushbuckridge, Mpumalanga, South Africa  
   Agatha Onyemowo Kolo, University of Pretoria, South Africa

2. Assessment of aerosolization of Avian Influenza A associated with market hygiene and practices and potential occupational exposure of live bird market workers in Bangladesh  
   Mahbubur Rahman, Institute of Epidemiology, Disease Control and Research, Bangladesh

3. Transformation within Indigenous Lived Experiences and the Journey from a Pedagogy of Oppression to a Pedagogy of Hope and Freedom  
   Anne Poelina, the University of Notre Dame, Australia

4. Tackling the second deadliest Neglected Tropical Disease: Predicting and reducing the impact of snakebite on human and animal health through One Health analyses of hotspots and access to care  
   Rafael Ruiz de Castaneda, Institute of Global Health, Faculty of Medicine, University of Geneva, Switzerland

5. What will it take to eliminate rabies in Africa?  
   S Mwangi Thumbi, Washington State University, Kenya

#### 10:45-12:30  ANTIMICROBIAL AGENTS AND RESISTANCE

**Prevalence and surveillance of resistance**

**Chair:** Gerard Wright, M.G. DeGroote Institute for Infectious Disease Research, Canada

**Co-chair:** Georgina Cox, University of Guelph, Canada

1. Temporal Changes in Antibiotic Resistance in Common Bottlenose Dolphins (Tursiops truncatus), a Sentinel Species  
   Adam M Schaefer, Florida Atlantic University, USA

2. Antimicrobial Resistance in Salmonella enterica Isolates from Wildlife in Virginia  
   Karen Gruszynski, Lincoln Memorial University, USA

3. Antibiotic resistance and epidemiology of Campylobacter recovered from humans, animals and environmental sources in Ghana  
   Akosua Bonsu Karikari, University for Development Studies, School of Medicine and Health Sciences, Ghana

4. A longitudinal evaluation of Salmonella Typhimurium AMR prevalence and transmission using whole genome sequencing and phenotyping in a poultry population with no antimicrobial selection pressure  
   Helen Kathleen Crabb, the University of Melbourne, Australia

5. Urban Wildlife and the Epidemiology of Antimicrobial Resistance in Nairobi  
   James Hassel, University of Liverpool, UK
### SCIENCE POLICY INTERFACE

**Resistance to antibiotics and antivirals: challenges for policy makers and scientists**

**Chair:** Laura H. Kahn, Princeton University, USA  
**Co-Chair:** Christianne Bruschke, Chief Veterinary Officer, The Netherlands

1. Antimicrobial Resistance and One Health solutions  
   **Joergen Schlundt**, University of Singapore

2. Antimicrobial resistance: Canada's science and policy challenges  
   **Alike Dimitri**, Canadian Food Inspection Agency, Canada

3. The Nordic countries strategy for AMR: challenges at “high latitudes” for policy makers, scientists and society  
   **Carlos Gonçalo das Neves**, Norwegian Veterinary Institute, Norway

4. WHO guidelines on use of medically important antimicrobials in food-producing animals  
   **Scott McEwen**, University of Guelph, Canada

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### SPECIAL PLENARY SESSION

**Neglected Zoonotic Diseases in Resource-Poor, Marginalised and Under-Served Communities: Challenges in Infectious Disease Control**

**Chair:** Martyn Jeggo, Geelong Centre for Emerging Infectious Diseases, Australia

1. Where we left off: main conclusions of the 2014 International meeting on the control of Neglected Zoonotic Diseases  
   **Speaker to be confirmed**

2. Combatting Neglected Zoonotic Diseases at the human/animal interface: an overview  
   **Ab Osterhaus**, RIZ Hannover, Germany

3. Challenges and opportunities to preventing and responding to outbreaks of helminth/bacterial/viral infections in livestock  
   **Speaker to be confirmed**

4. Need to acquire community support to implementing effective control programmes  
   **Speaker to be confirmed**
### SUNDAY 24 JUNE 2018

#### PARALLEL SESSIONS

##### ONE HEALTH SCIENCE 1

**Drivers for emerging diseases 2**

| Chair: **Peter Daszak**, President of the EcoHealth Alliance |
| Co-Chair: **Ottorino Cosivi**, WHO-Brazil |
| **1.** Leveraging viral phylodynamics to inform spatiotemporal transmission of viral infectious diseases in Africa: 2009 Influenza A/H1N1 in Africa |
| *Fredrick Nzabanyi Nindo*, University of Cape Town, South Africa |
| **2.** Risk of pneumonia among residents living near goat and poultry farms |
| *Pim Martijn Post*, Dutch National Institute for Public Health and the Environment (RIVM), The Netherlands |
| **3.** Effect of Habitat Modification on Risk of Scrub Typhus, An Emerging Infectious Disease in Bhutan |
| *Tandin Zangpo*, Khesar Gyalpo University of Medical Sciences of Bhutan |
| **4.** A One Health Understanding of the Rodent Meat Value Chain in the Mekong Delta, Vietnam: Implications for Zoonotic Disease Risk Mitigation (Wellcome Trust VIZIONS) |
| *Jason Euren*, Metabiota, USA |
| **5.** Climate variability and infectious diseases nexus: Evidence from Sweden |
| *Mwenya Mubanga*, Uppsala University, Sweden |

#### ONE HEALTH SCIENCE 2

**Pathogenesis 2**

| Chair: **Malik Peiris**, University of Hong Kong |
| Co-Chair: **Wendy Karen Jo Lei**, Research Center for Emerging Infections and Zoonoses, Hannover, Germany |
| **1.** Species specific binding of the MERS-coronavirus S1A protein |
| *W Widagdo*, Erasmus MC, The Netherlands |
| **2.** Using Bioluminescent Salmonella Strains to Study Host-Pathogen Interaction in Chicken will Allow One-Health-Approach |
| *Dinesh Hirantha Wellawa*, Vaccine and Infectious Disease Organization, Canada |
| **3.** Influenza A viruses activate host PI3K/Akt survival pathway for pro-viral advantage in chicken but not in duck cells |
| *Sanjeeva Kumar*, University of Nottingham, UK |
| **4.** Environmental CO2 Modification of Innate Immune responses to LPS and Organic Dust |
| *David Schneberger*, University of Saskatchewan, Canada |
| **5.** Rabies virus interrupts cofilin pathway and induces depolymerization of actin in hippocampal region |
| *Waqas Ahmad*, University of Veterinary and Animal Sciences, Jhang Campus, Pakistan |
### 14:00-15:45 **Novel strategies for amr interventions / preparedness**

**Chair:** Laura H. Kahn, Princeton University, USA  
**Co-Chair:** Reema Persad-Clem, UC Berkeley, USA

1. **Operationalising One Health Approaches to Surveillance for Antimicrobial Resistance**
   - Joanna Susan Mckenzie, Massey University, New Zealand

2. **#AMR: Exploring the role of social media in addressing antimicrobial resistance**
   - Megan Lesley Moore, University of Saskatchewan, Canada

3. **Development of 2-Aminoimidazole Compounds that Enhance Antibiotic Activities to Reduce Antibiotic Usage**
   - Malcolm Thomas, Agile Sciences, Inc, USA

4. **A novel participatory strategy to reduce antimicrobial use in agricultural systems**
   - Mark Bryan, VetSouth Limited Winton, New Zealand

5. **Can inhibition of transmission of KPC and CTX-M producing plasmids reduce the spread of AMR?**
   - Michelle M.C. Buckner, University of Birmingham, UK

### 14:00-15:45 **Science Policy Interface**

**Chair:** William B. Karesh, EcoHealth Alliance  
**Co-Chair:** Trevor Smith, Deputy Executive Director and General Counsel, Global Affairs Canada

1. **The Global Health Security Agenda**
   - Speaker to be confirmed

2. **The Weapons of Mass Destruction Threat Reduction Program**
   - Trevor Smith, Deputy Executive Director and General Counsel, Global Affairs Canada

3. **Objectives and achievements of the Defense Threat Reduction Agency**
   - Lance Brooks, Division Chief Cooperative Bio Engagement Program, Department of Defense, USA

4. **The Role of Private Industry**
   - Speaker to be confirmed

### 15:45-16:15 **Coffee Break**
## PARALLEL SESSIONS

### ONE HEALTH SCIENCE 1

**Vaccines**

**Chair:** George Gao, Deputy Director-General CDC China  
**Co-Chair:** Volker Gerdts, University of Saskatchewan, Canada  

1. **Portfolio Approach, Development and Stockpile of MERS-CoV Vaccines: A Case Study**  
   Simone Blayer, CEPI, UK

2. **Protective non-specific effect of rabies vaccine in humans, dogs and cattle: One Health implications**  
   Anne Conan, Ross University School of Veterinary Medicine, Saint Kitts and Nevis

3. **Brucellosis in the changing peri-urban dairy systems of West Africa**  
   Laura Ann Craighead, RVC, UK

4. **A Cimaza Case Study – Highlighting Effectiveness of Comics/Animations in Enhancing Science Literacy and in Particular the Science Behind Vaccines and Viral Diseases**  
   Susan Obeid, CIMAZA, Belgium

5. **A systematic review of strategies for reducing missed opportunities for vaccination**  
   Anelisa Jaca, South African Medical Research Council, South Africa

### ONE HEALTH SCIENCE 2

**Infectious diseases from an ecohealth perspective 1**

**Chair:** Craig Stephen, University of Saskatchewan, Canada  
**Co-Chair:** Patrick Leighton, University of Montreal, Canada  

1. **Integrating Ecosystem Approaches to Health: A One Health Investigation of Rift Valley Fever Virus**  
   Melinda K Rostal, EcoHealth Alliance, USA

2. **The Other Side of One Health: A Brucellosis story**  
   Barbara Akorfa Glover, University of Pretoria, South Africa

3. **One ring to rule them all: Uniting human, animal, and environmental data using the Checklist for One Health Epidemiological Reporting of Evidence (COHERE)**  
   Peter M. Rabinowitz, Center for One Health Research, University of Washington, USA

4. **Ecohealth Project at the community level: Disease Research and development at the human-domestic animal and wildlife interface, Uganda**  
   Innocent Bidason Rwego, University of Minnesota, Uganda

5. **"Whenever I see a fruit bat, I think Hendra” – Attitudes and risk perception of Australian horse owners towards flying foxes in relation to Hendra virus**  
   Anke Wiethoelter, University of Melbourne, Australia
### 14:00-15:45 
**ANTIMICROBIAL AGENTS AND RESISTANCE**  
**GALLERY C-D**

**Alternative approaches to tackling resistant infections**

**Chair:** Britta Lassman, *International Society for Infectious Diseases*  
**Co-Chair:** Mohamed Sirdar, *University of Pretoria, South Africa*

1. Antibiotics usage by pastoralists in livestock in North-central Nigeria: The socio-cultural drivers for antibiotic resistance emergence and public health implications  
   **Nma Bida Alhaji**, *Niger State Government, Nigeria*

2. Extent of dispensing prescription-only medications without a prescription in community drug retail outlets in Addis Ababa, Ethiopia: a simulated-patient study  
   **Begashaw Melaku Gebresillasse**, *University of Gondar, Ethiopia*

3. Towards a Global Database of Emerging Antibiotic Resistance  
   **Brooke Watson**, *EcoHealth Alliance, USA*

   **Steven Alan Kemp**, *University of Liverpool, UK*

5. Antimicrobial use behaviours, the economics of animal disease and perceptions of antimicrobial policy in pig production in Vietnam  
   **Lucy Alice Coyne**, *University of Liverpool, UK*

### 14:00-15:45 
**SCIENCE POLICY INTERFACE**  
**GALLERY A-B**

**Making one health operational: the barriers to change and glimmers of hope**

**Chair:** Robert Salerno, *DAI Global Health*

1. Introduction to the session’s concept and objectives  
   **Robert Salerno**, *session chair*

2. A decade of implementing One Health in Kenya: Translating research into practice  
   **Peninah Munyua**, *Kenya CDC*

3. One Health Secretariat: A Formalized coordinating Entity for Operationalizing One Health in Bangladesh  
   **Meerjady Sabrina Flora**, *IEDCR, Bangladesh*

4. Making One Health operational within the Caribbean Region  
   **Chris Oura**, *University of the West Indies, Trinidad*

5. Characterizing the interventions of the private sector extractive industries during the Ebola virus disease crisis in West Africa  
   **Sambe Duale**, *USAID Emerging Pandemic Threats 2 Program*

6. Tripartite Guidance: Taking One Health Approaches to Address Zoonotic Diseases in Countries: A “Glimmer of Hope”  
   **Elizabeth Mumford**, *World Health Organization*

7. Panel discussion and open Q&A
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<tr>
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<tbody>
<tr>
<td>18:00-19:30</td>
<td>SPECIAL PLENARY SESSION</td>
<td>SALON A-B</td>
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<td><strong>Emerging and re-emerging infectious diseases: assessment, preparedness and eradication</strong></td>
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<td><strong>CHAIRS:</strong> Mike Ryan, the World Health Organization</td>
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<td>William B. Karesh, EcoHealth Alliance</td>
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<tr>
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<td>1. Introducing emerging and re-emerging infectious diseases / The threat of an Influenza Pandemic</td>
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<td>Ab Osterhaus, RIZ Hannover, Germany</td>
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<td>2. Eradication of infectious diseases; past, present and future</td>
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<td>Nick Juleff, Senior Program Officer Animal Health portfolio, Bill &amp; Melinda Gates Foundation</td>
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<td>3. Risk reduction of health emergencies and impact of climate change on health: implications of relevant international frameworks</td>
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<td>Chadia Wannous, Towards a Safer World Network for Pandemic Preparedness (TASW)</td>
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<td>4. Strengthening global biological security</td>
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<td>5. Community-based surveillance for early detection of EID</td>
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<td>6. Health emergency challenges from the animal health pharma perspective</td>
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<td>7. Health emergency challenges from the human health pharma perspective</td>
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<td>Speaker: to be confirmed</td>
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<td>20:00-23:00</td>
<td>FAREWELL DINNER</td>
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**Sunday 24 June 2018**
## MONDAY 25 JUNE 2018

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<tr>
<th>Time</th>
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<tr>
<td>08:00-10:00</td>
<td>BREAKFAST PLENARY SESSION</td>
<td>SALON A-B</td>
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<tr>
<td>10:00-10:30</td>
<td>COFFEE BREAK</td>
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<td>10:30-12:15</td>
<td>PARALLEL SESSIONS</td>
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<td><strong>ONE HEALTH SCIENCE 1</strong></td>
<td>SALON A-B</td>
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<td><strong>Vaccines 2</strong></td>
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<td><strong>CHAIR:</strong> Lorne Babiuk, University of Alberta, Canada</td>
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<td><strong>CO-CHAIR:</strong> Teresia Maina, University of Saskatchewan, Canada</td>
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</table>
|               | 1. Development of a highly pathogenic avian H7N9 influenza disease model in mouse  
  Shelby Layne Landreth, University of Saskatchewan, Canada  |
|               | 2. A trial to assess the thermotolerance of an inactivated rabies vaccine  
  Felix John Lankester, Washington State University, Tanzania  |
|               | 3. Acceptance Of Heterologous Prime-Boost Vaccination Regimens – An Assessment  
  Sabrina Ivol, Janssen Vaccines & Prevention, The Netherlands  |
|               | 4. Identifying Genomic Predictors of Vaccine Response in Swine  
  Peris Mumbi Munyaka, University of Alberta, Canada  |
|               | 5. Q fever vaccine failure rate, duration of longevity of immunity and associated demographic factors in Australia  
  Solomon Meseret Woldeyohannes, University of Queensland, Australia  |
| 10:30-12:15   | **ONE HEALTH SCIENCE 2**                   | SALON C-D   |
|               | **Infectious diseases from an ecohealth perspective 2** |             |
|               | **CHAIR:** Jonna Mazet, UC Davis, USA  |
|               | **CO-CHAIR:** James Bangura, UC Davis One Health Institute, Freetown, Sierra Leone  |
|               | 1. The role of mainland-island bat movement in the dissemination of viruses of public health concern in the Caribbean  
  Janine Seetahal, The University of the West Indies, Trinidad & Tobago  |
|               | 2. Nematode co-infections, environmental factors and weather impact infection with the zoonotic bacterium, Bartonella tribocorum, in urban Norway rats (Rattus norvegicus)  
  Jamie Lee Rothenburger, University of Calgary Faculty of Veterinary Medicine, Canada  |
|               | 3. Environmental Change Increases Human-Macaque Interactions and the Risk of Zoonotic Disease Spillover  
  Ariful Islam, Institute of Epidemiology, Disease Control and Research, Bangladesh  |
|               | 4. Explaining variation in human and animal zoonotic infection risk in northern Tanzania: defining agro-ecological systems and their contribution to risk  
  William Anson de Glanville, University of Glasgow, UK  |
|               | 5. Building collaborative capacity to evaluate zoonotic viral sharing among bats, primates, and people in Tanzania  
  Elizabeth VanWormer, University of Nebraska, Lincoln, USA  |
10:30-12:15 **Rapid diagnostics**

**CHAIR:** Rafael Canton, University hospital of Madrid, Spain

**CO-CHAIR:** Moon Tay Yue Feng, Nanyang Technological University, Singapore

1. Analysis of single nucleotide polymorphism in KatG gene in isoniazid resistant Mycobacterium Tuberculosis
   Muhammad Arif, University of Malakand, Pakistan

2. Exploiting the potential of flow cytometry in rapid antimicrobial susceptibility testing
   Timothy John Jay Inglis, University of Western Australia, Australia

3. Novel and Rapid Multiplex Allele-Specific PCR (MAS-PCR) Test for Rapid Detection of MDR and XDR-TB from the Sputum of Lung TB Patients in Makassar, Indonesia
   Muhammad Nasrum Massi, Hasanuddin University, Indonesia

4. Presence of oqxA and oqxB genes in a multidrug resistant Salmonella Typhimurium isolate recovered from swine in Brazil
   Daniel F. Monte, University of São Paulo, Brazil

10:30-12:15 **SCIENCE POLICY INTERFACE**

**CHAIR:** Marietjie Venter, University of Pretoria, SA

1. One Health in Africa: a concept with global benefits
   **Speaker to be confirmed**

2. First Nations of Canada and the One Health approach
   Addie Pryce, Assembly of First Nations, Canada

3. One Health, rabies response and more-than-human considerations in Indigenous communities in Northern Australia
   Chris Degeling, University of Wollongong, Australia

12:15-13:45 **PLENARY SESSION**

**Late breakers**

**CHAIR:** John Mackenzie, Curtin University, Australia

Submission of late breaker abstracts until 15 May 2018

13:45-14:00 **CLOSING CEREMONY**
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<tr>
<td>14:00-14:30</td>
<td>LUNCH</td>
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<td>14:30-15:30</td>
<td>PRESS CONFERENCE - LIVE STREAM (SALON C-D)</td>
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<td>Prof. John Mackenzie, Prof. Ab Osterhaus and other key contributors to the congress will share the main outcomes on aspects of emerging and re-emerging infectious diseases and antimicrobial resistance. They will inform members of the press about the development of a “White Paper” - established during the congress. The White Paper will provide in-depth descriptions of the major One Health challenges and threats. It will openly state what is going wrong on a societal level, what is lacking and what the gaps are in order to make the world a safer place when it comes to One Health issues. The White Paper will come with a clear call for actions, a roadmap that describes what needs to be done - better and more. The press conference will be live streamed. The accompanying press statement will be distributed to members of the press globally.</td>
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<td>GUIDED EXCURSIONS</td>
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