



National  
Institute for  
Environmental  
Studies, Japan



National Institute Of  
Environmental Research



## NIES\_NIER\_USGS International workshop 2019

The risk assessment of intercontinental pathogen movement  
-Establishing new surveillance system, developing pathogen detection methods and utilizing existing data-

May 21-23, 2019

National Institute for Environmental Studies, Tsukuba, Ibaraki, Japan

May 21, 2019

- 8:45 Shuttle bus from Hotel Grand Shinonome to NIES (free)
- 9:30-10:00 **Opening remarks**  
Dr. Hiroya Yamano, National Institute for Environmental Studies (NIES), Japan  
Dr. Seung Do Yu, National Institute of Environmental Research (NIER), South Korea  
Dr. Jonathan Sleeman, United States Geological Survey (USGS) National Wildlife Health Center
- 10:00-10:30 **Session on One Health approach for monitoring and responding to emerging infectious diseases**  
Keynote speech  
Emerging and noteworthy wildlife disease occurrences in Asian Region with the introduction of OIE (World Organisation for Animal Health) Working Group on Wildlife Health  
Dr. Koichi Murata, Nihon University, Japan
- 10:30-10:50 Coffee break
- 10:50-11:10 Current investigation status of newly emerging infectious diseases in Korea and proposal for international cooperation  
Dr. Weon Hwa Jheong, NIER
- 11:10-11:30 The importance of wildlife health system development in Mongolia: experiences and challenges  
Dr. Erdene-Ochir Tseren-Ochir, Mongolian University of Life Science
- 11:30-11:50 Risk factors for human brucellosis in agro-pastoral areas in Tanzania  
Dr. Shingo Asakura, NIES
- 11:50-13:00 Lunch
- 13:00-13:30 **Session on transboundary wildlife diseases**  
Keynote speech  
How to implement cooperation for the control of highly pathogenic avian influenza?  
Prof. Yoshihiro Sakoda, Hokkaido University, Japan
- 13:30-13:50 HPAI prevention and control strategy for Republic of Korea  
Mr. Ho Sung Lee, Animal and Plant Quarantine Agency, South Korea
- 13:50-14:10 Recent trend of characteristics of avian influenza viruses in wild birds, Republic of Korea  
Dr. Yoon Jee Hong, NIER
- 14:10-14:30 Highly pathogenic avian influenza H5Nx in Russia and "Hotspots" for surveillance  
Dr. Kirill Sharshov, Federal Research Center of Fundamental and Translational Medicine, Russia
- 14:30-14:50 Status of HPAI outbreaks among cranes in Izumi, Japan  
Ms. Yuko Haraguchi, Izumi city crane museum, Crane Park Izumi, Japan
- 14:50-15:20 Coffee break
- 15:20-15:40 The role of emperor geese (*Anser canagicus*) in influenza A ecology in Beringia  
Dr. Andrew Ramey, USGS Alaska Science Center
- 15:40-16:00 Pathogenicity of recent H5 highly pathogenic avian influenza viruses to wild duck species  
Dr. Kosuke Soda, Tottori University, Japan
- 16:00-16:20 Susceptibility of synanthropic rodents, house mice (*Mus musculus*), brown rat (*Rattus norvegicus*) and black rat (*Rattus rattus*), to H5N1 subtype highly pathogenic avian influenza viruses  
Dr. Tatsufumi Usui, Tottori University, Japan
- 16:20-16:40 African swine fever in China  
Prof. Hongxuan He, Institute of Zoology, Chinese Academy of Sciences
- 17:30 Shuttle bus bound for Hotel Grand Shinonome (free)
- 18:00— Banquet (at Hotel Grand Shinonome)

May 22, 2019

8:45 Shuttle bus from Hotel Grand Shinonome to NIES (free)

**Session on development of diagnostic method and surveillance system for emerging infectious diseases in wildlife**

- 9:30-10:00 Keynote speech  
Climate change and wildlife diseases: Identifying the risks and potential management strategies  
Dr. Jonathan Sleeman, USGS National Wildlife Health Center
- 10:00-10:20 Surveillance system for avian influenza in wild birds in Japan  
Dr. Sachiko Moriguchi, Nippon Veterinary and Life Science University, Japan
- 10:20-10:40 Satellite-tracking of waterfowl from Japan  
Dr. Tetsuo Shimada, The Miyagi Prefectural Izunuma-Uchinuma Environmental Foundation, Japan
- 10:40-11:00 Coffee break
- 11:00-11:20 Early detection and tracking for avian influenza viruses of wild birds in Republic of Korea  
Ms. Jung-Eun Park, NIER
- 11:20-11:40 Avian influenza surveillance in wild birds in China  
Dr. Jing Luo, Institute of Zoology, Chinese Academy of Sciences
- 11:40-13:00 Lunch
- 13:00-13:20 Some results of surveillance of influenza virus in wild birds of Northern and Central Eurasia: results 2016-2018  
Dr. Alexander Shestopalov, Federal Research Center of Fundamental and Translational Medicine, Russia
- 13:20-13:40 Utilization of cultured cells to evaluate resistance ability against HPAIV in birds  
Dr. Manabu Onuma, NIES
- Session on potential utilization of various ecological data to understand infectious disease ecology**
- 13:40-14:00 Using ecological niche models for risk assessments of wildlife diseases under changing climates; from a forest pest to avian flu  
Dr. Makihiko Ikegami, NIES
- 14:00-14:20 The USGS bird banding laboratory  
Dr. John French, USGS Patuxent Wildlife Research Center
- 14:20-14:50 Coffee break
- 14:50-15:10 Wild bird movement ecology and avian influenza transmission risk modeling at the wild-domestic interface  
Dr. Diann Prosser, USGS Patuxent Wildlife Research Center
- 15:10-15:30 Migratory bird tracking in East Asia for monitoring the transmission of highly pathogenic avian influenza  
Dr. Hansoo Lee, Korea Institute of Environmental Ecology
- 16:00 Shuttle bus bound for Hotel Grand Shinonome (free)

May 23, 2019

8:45 Shuttle bus from Hotel Grand Shinonome to NIES (free)

**Workshop Wrap-up Session**

- The study proposal on the intercontinental movement of pathogens via migratory birds  
Dr. Jonathan Sleeman, USGS National Wildlife Health Center
- \*No shuttle bus service at this time. Use public bus or taxi if you will not attend optional tour.
- 12:00-13:00 Optional: Lunch
- 13:00-14:00 Optional: Tour of NIES (person interested in attending)
- 15:00 Shuttle bus bound for Hotel Grand Shinonome (free)