Friday, April 22, 2022

Special session **ALBERT**

Research at the interface of climate change, aquatic invasive species and diseases

Concern of the potential effects of climate change on species invasions, range expansions, and disease were raised over a decade ago (e.g., Harvell et al. 2002, Lafferty 2009, Hofmeister et al. 2010). As manifestations of prior predictions of climate change emerge, there is a need to re-focus attention on the intersection of these phenomena and disciplines. The objective of this session is to gather international scientists involved in, or interested in, research at the intersection of climate change, disease, and aquatic invasive species (AIS) to exchange views on an integrated pest management framework for surveillance, response, and management of biological threats from AIS and/or pathogens, within the overall context of climate change.

13:00-13:20

VIRTUAL

Translational invasion ecology: a framework for connecting research and practice to address the combined challenges of invasive species and climate change
Carrie J. Brown-Lima, Cornell University, USA

13:20-13:40

The effect of multiple abiotic and biotic stressors on amphipod behaviour and ecosystem processes
Alison Dunn, University of Leeds, UK

13:40-14:00

Biological invasions and parasite-host interactions in a warmer world: identifying climate change impacts on wildlife and aquaculture diseases in European coastal waters
David W. Thieltges, Royal Netherlands Institute for Sea Research, THE NETHERLANDS

14:00-14:20

Invasive host, their parasites and pathogens: effects and interactions in the recipient ecosystem
K. Mathias Wegner, Alfred Wegener Institute, GERMANY

14:20-14:40

Networking break

14:40-15:00

Macroecologic models as a tool in understanding the role of parasites in the success of invaders
Volodimir Sarabeev, Zaporizhzhia National University, UKRAINE

15:00-15:20

VIRTUAL

Co-evolution of Piscine rhabdovirus (viral hemorrhagic septicemia) and its fish hosts: an invasive pathogen during climate change
Carol A. Stepien, Smithsonian National Museum of Natural History, USA

15:20-15:40

Invasive and native aquatic mosquitoes across climate zones from Arctic to Equator
David Bruce Conn, Berry College, USA

15:40-17:00

Discussion period