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News > 2022 > 10 > Save the date: The Second Arctic Environmental Forum (AEF)

Save the date: The Second Arctic Environmental Forum (AEF)

Mon, Oct 10, 2022



The Second AEF will be open on October 26, 2022 at 20:00 (Beijing Time), 12:00 (GMT).

The speaker of the forum is going to be Dr. Derek Muir with the topic "Arctic contaminants: A perspective on 50 years of monitoring (2): Emerging contaminants and effects of climate change".

October 26, 2022

Arctic contaminants: A perspective on 50 years of monitoring (2) Emerging contaminants and effects of climate change

- A tribute to Dr. Robie W. Macdonald

Time October 26 (Wednesday), 20:00 (Beijing Time), 12:00 (GMT)

Zoom Meeting ID: 997 1814 7421; **Password:** 475980

Part 1 of this lecture (available at UArctic link: <https://vimeo.com/755457233/f9a7f51dd2>) focused on the history and pathways, as well as temporal trends of legacy persistent organic pollutants (POPs) and poly- and perfluoroalkyl substances (PFAS). Part 2, will focus on the discovery of new organic contaminants and the influence of climate change on temporal trends. In silico screening of the world's major industrial chemical inventories has revealed there are potentially thousands of substances with Arctic accumulation potential. Targeted and nontarget analysis has confirmed the presence of some of these compounds and their transformation products in Arctic air and biota. The oceanic and airborne transport of microplastics and exposure of Arctic wildlife to plastic additives has emerged as a hot topic. The Arctic is also warming at a more rapid rate than the global mean making it possible to utilize the many long term datasets of contaminants to examine the influence of climate change on temporal trends. The emerging evidence for the influence of climate on trends of POPs, recently addressed in an AMAP Assessment Report (<https://www.amap.no/publications>) will be reviewed, and possible future trends based on predicted climate warming during the 21st century, will be discussed.



Derek C.G. Muir, Senior Research Scientist, Environment & Climate Change Canada, Fellow of the Royal Society of Canada, Academy of Science, Fellow and president (2008) of the Society of Environmental Toxicology and Chemistry, Fellow of the Chemical Society of Canada. Lead or co-lead the assessments of trends of contaminants in the Canadian Arctic and in the circumpolar Arctic for the Arctic Monitoring and Assessment Program (AMAP).

Refereed journals: 624; Refereed book chapters & conference proceedings: 51;
Refereed technical reports: 50; Other technical reports: ~185.
H-index: Google Scholar = 128; Citations: 39,270.

The *Arctic Environment Forum* (AEF) is organized by the School of Environment, Harbin Institute of Technology (HIT), China, Specialized Committee for Polar Environment and Ecosystem, Chinese Society for Environmental Sciences, Elsevier, the journal of Environmental Science & Ecotechnology, and the UArctic-HIT-Training Centre (The first Regional Center of the University of the Arctic outside the Arctic Circle), with the support from Norwegian University of Life Sciences. AEF will be held 3 times a year, in which world's top experts in the field of Arctic environment and ecology will be invited to present their results of the cutting-edge research on line via ZOOM to scientists and students worldwide. All lectures provided by the AEF are free.

The main topics of AEF include but are not limited to:

- Source, occurrence and fate of POPs and CEACs in the Arctic media
- Identification and monitoring of new pollutants in the Arctic
- Global usage/emission inventories
- Modeling the long-range transport of pollutants to the Arctic
- Biogeochemical cycle of legacy and emerging pollutants in the Arctic
- Biological effects and ecological risks of Arctic pollutants
- Human exposure to the pollutants in the Arctic

International Academic Committee:

Dr. Nanqi Ren, Professor, HIT, China, Member of the Chinese Academy of Engineering, Director, the State Key Laboratory of Urban Water Resource and Environment

Dr. Yi-Fan Li, Professor, HIT, China, Member of the Norwegian Polar Research Academy, Director, the UArctic-HIT Training Centre, the University of the Arctic

Dr. Roland Kallenborn, Professor, Norwegian University of Life Sciences, Member of the Norwegian Polar Research Academy, UArctic Chair for Arctic Environmental Pollution Research

Dr. Derek Muir, Senior Research Scientist, the Environment and Climate Change of Canada, Fellow of Canada's National Academy of Science

Secretary:

Dr. Zifeng Zhang, Associate Professor, Harbin Institute of Technology