



International Arctic School, Summer 2021

IAS-HIT-*e*Summer2021

12-25 July 2021, Harbin, China



Summer School 2021
Harbin, China, July 12-25



KEY INFORMATION

❖ Application deadline

30 June 2021

❖ Opening Date

12-25 July 2021

❖ Host Venue

On-line

❖ Theme

POPs and Chemicals of Emerging Arctic Concern (CEACs) in the Arctic under Climate Change

POPs and Chemicals of Emerging Arctic Concern (CEACs) in the Arctic under Climate Change

Note: Due to the Covid-19 pandemic, the International Arctic School, Summer 2021 will be open on-line, and provide on-line courses in digital form to students in China and around the world. The IAS-HIT- Summer2021 is free for all students.

Once in the environment, POPs and CEACs disperse into air, water, soils and sediments in the Arctic, and can be taken up by Arctic biota. Many of the processes that determine the environmental fate of POPs and CEACs and their potential for uptake and bioaccumulation in food webs can be influenced by climate change.

As young generations and future elites in different disciplines and fields from China and the eight Arctic countries, our goals on the Arctic are to understand, protect, develop and participate in the governance of the Arctic. To understand human health in the Arctic is the important step to reach the goal.

Sponsored by the Undergraduate College, Harbin Institute of Technology (HIT), The 2021 summer School will be held *on-line* by the International Arctic School, HIT (IAS-HIT) on the topic of "POPs and Chemicals of Emerging Arctic Concern (CEACs) in the Arctic under Climate Change" during July 12-25, 2021.

The teachers of the IAS-HIT-*e*Summer2021 will come from the Arctic countries and China, and students will be from China and other countries worldwide, the 8 Arctic countries in particular. The teaching courses will consist of core courses and lectures.

The IAS-HIT is a subsidiary body of UArctic-HIT Training Centre, the first UArctic regional center outside the eight Arctic countries.

Find out more: [International Arctic School, HIT Summer 2021 \(IAS-HIT-Summer 2021\)](#)



Who can participate?

This Summer School invites **undergraduate students** from universities worldwide who love and care the Arctic and intend to achieve relevant scientific knowledge of the Arctic.

The following eligibility criteria apply:

- 1) This program is open to undergraduate students of all academic backgrounds;
- 2) The student is motivated to enhance understanding and friendship among the students from different countries;
- 3) The students must have sufficient knowledge of English, both oral and written, for academic studies.

The Undergraduate students who are interested in attending the IAS-HIT-*e*Summer2021 can apply by providing a short CV (about 200 words including email address and telephone number) and filled the "Application Form", which can be download from our [website](#). The filled documents must be send to IAS_HIT@163.com ; IAS_HIT2021@163.com.



Organizers:

Harbin Institute of Technology (HIT), China
 UArctic-HIT Training Centre, the University of the Arctic (UArctic-HIT-TC)
 Association of Sino-Russian Technical Universities (ASRTU)







Co-Organizers:

Norwegian University of Life Sciences & University Center in Svalbard, Norway
 North-Eastern Federal University, Russia
 Committee for Polar Environment and Ecosystem, Chinese Society for Environment Science



Course Description

Core Courses

Teacher	Course Title	Institute	Photo	
Kallenborn, Roland	Local sources of contaminants in Arctic environment	Norwegian University of Life Sciences & University Center in Svalbard, Norway		8
Li, Yi-Fan	Contaminants in Arctic environment due to long-range transport	UArctic-HIT-TC, Harbin Institute of Technology, China		8
Muir, Derek	Legacy and emerging contaminants in the Arctic	Environment & Climate Change Canada		8
Reiersen, Lars-Otto	Trends and effects of pollution and climate change on Arctic ecosystems and humans	University of Tromsø, Norway		8



Lectures

Teacher	Course Title	Institute	Photo
Bartlett, Paul	Arctic POPS/CEC LRT: Knowledge Gaps & Cooperative Research Opportunities	Fordham University	
Cai, Ming-Gang	Organic pollutants in the changing environments: From the North Pacific to the Arctic	College of Ocean and Earth Sciences, Xiamen University	
Chen, Li-Qi	The Rapid Decadal acidification in the Arctic OCEAN and its implication in the Global OCEAN ACIDIFICATION	Key Laboratory of Global Change and Marine Atmospheric Chemistry, The Ministry of Natural Resources, P.R. China	
Fu, Ping-Qing	Sources and molecular composition of organic aerosols in the polar regions	Tianjin University, China	
Hansen, Kai Mantzius	Modelling atmospheric transport of contaminants to the Arctic	Aarhus University, Denmark	

Course Description

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Hu, Jian-Xin	China and the world work together to tackle global environmental crisis-Take the Stockholm Convention as an example	Peking University China	
Liu, Li-Yan	Indoor environment and human health in cold regions	School of Environment, HIT, China	
Ma, Jianmin	Big data-deep learning and its application in the environmental cycling	Peking University, China	
Markusson, Pál	Human Capacity Building in the North – The Role of Higher Education Cooperation	The University of Arctic (UArctic)	
Nikolaev, Anatoly N	Introduction to Arctic ecosystems	North-Eastern Federal University, Russia	
Odland, Jon Øyvind	Reproductive and environmental health in the Arctic	Norwegian University of Science and Technology, Norway	

Course Description

Teacher	Course Title	Institute	Photo
Ratnaweera, Harsha	Conventional water and wastewater treatment in Cold Climates	Norwegian University of Life Sciences & University, Norway	
Savvinova, Antonina	Climate change and its impact to local population of the Arctic region of Russia	North-Eastern Federal University, Russia	
Sun, Kai	Microfluidic devices – A useful tool for screening and detection of microorganism	School of Environment, HIT, China	
Vorkamp, Katrin	Chemicals of emerging concern in the Arctic	Aarhus University, Denmark	
Wang, Jian-Nan	Great Ice Melting: Some thoughts inspired by documentary images and human observation from more than 180 Arctic settlements	Arctic human observer, China	
Wang, Xiao-Ping	Regional cycling of persistent organic pollutants on the third pole	Institute of Tibet Plateau Research, Chinese Academy of Sciences	

Course Description

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Xu, Qing-Chao	China in the Arctic: the Past, the Present and the Future	China Institute for Innovation & Development Strategy, Chinese Academy of Sciences, China	
Xing, De-Feng	Polar microbial ecosystem and anaerobic biotechnology	School of Environment, Harbin Institute of Technology, China	
Zhang, Qing-Hua	Persistent organic pollutants in polar regions: occurrence, variations, sources and bioaccumulation	Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China	

