



## **Socio-ecological resilience across Eurasia innovation for sustainability transition**

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INTENSE Open Science Conference

Online/Tartu, Estonia, 5-7 October 2021



## An overview:

### Tuesday, October 5

- 9:00 – 10:00 – Registration, welcome coffee
- 10:00 – 11:30 – opening and keynote speeches
- 11:30 – 13:00 – session 1a – Water Resources under the global change
- 13:00 – 14:00 – lunch
- 14:00 – 16:00 – session 2 – Policy and management innovation for urban environments
- 16:00 – 16:30 – coffee and discussion
- 18:00 – the Conference dinner (the venue to be announced later)

### Wednesday, October 6

- 10:00 – 11:30 – session 3 – Biodiversity and ecosystem services under the Global Change – management, monitoring, observations
- 11:30 – 12:00 – Coffee break
- 12:00 – 13:00 – session 4 – Climate Change impacts and their monitoring
- 13:00 – 14:00 – lunch
- 14:00 – 15:00 – session 1b – Water Resources under the global change (continued)
- 15:00 – 15:30 – the discussion panel and conclusions

### Thursday, October 7

- 10:00 – 11:30 – INTENSE consortium meeting – presentation of national doctoral schools
- 11:30 – 12:00 – Coffee break
- 12:00 – 12:30 – INTENSE consortium meeting – discussion over the sustainability of national and the international INTENSE programs
- 12:30 – 13:00 – INTENSE consortium meeting – Presentation and discussion of reporting demands for the content report
- 13:00 – 14:00 – lunch
- 14:00 – 15:00 – INTENSE consortium meeting – Presentation and discussion of reporting requirements for the financial report
- 15:00 – 15:30 – discussion of reporting tasks and the closure
- 15:30 – 17:30 – individual and group consultations with project management staff

*\* The detailed agenda for the INTENSE consortium meeting will be circulated separately*

### The conference venue:

Institute of Agricultural and Environmental Sciences, Kreutzwaldi 5, Tartu

**Contacts:** Anton Shkaruba, Kalev Sepp



## Keynote speeches

Tuesday, October 5

10:00 – 11:30

**Kalev Sepp**, *Estonian University of Life Sciences, Estonia*

Challenges and themes of Horizon Europe Research program - environment and adaptation to climate change

**Hans-Peter Nachtnebel**, *University of Natural Resources and Life Sciences, Austria*

Role of ecosystem services and social resilience in drinking water provision for the South Eastern European region

**Raimonds Ernšteins**, *University of Latvia, Latvia*

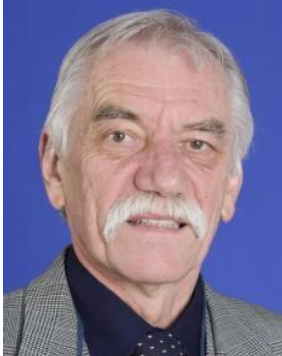
Application of key principles for coastal sustainable governance: systems approach, integration, and collaboration

## Keynote speakers



**Raimonds Ernšteins**,  
*University of Latvia*

Dr.hab.paed. Raimonds Ernšteins is a Professor of Environmental Science/Public Governance and Leading Researcher at the Department of Environmental Science, Faculty of Geography and Earth Sciences, University of Latvia. He is a Chairman of UNESCO Chair on Sustainable Coastal Development. His field of expertise is in Integrated Coastal Management, Environmental System Analysis, Environmental Policy and Planning, and Environmental Governance.



**Hans-Peter Nachtnebel**,  
*University of Natural Resources and Life Sciences (Austria)*

Em. O.Univ.Prof.Dipl.Ing.Dr. Dr.h.c. H.P. Nachtnebel is Emeritus Professor at the Department of Water-Atmosphere-Environment of the University of Natural Resources and Life Sciences (BOKU). Hans-Peter serves on the Board of Directors for the Society of Integrated Disaster Risk Management. He is a board member of the Austrian Hydrological Society. His area of expertise is in eco-hydrological modelling and management, river modelling and river restoration.



**Kalev Sepp**,  
*Estonian University of Life Sciences*

Kalev Sepp (PhD) is a Professor of Environmental Protection and Landscape Management at the Estonian University of Life Sciences (EMU). His research and publications focus on evaluating the human impact to agricultural landscapes, ecosystem services, management of protected areas, landscape and biodiversity monitoring, applying the concept of ecological networks in planning. He is a former Vice-President of the International Union for Nature Conservation and a member of the EU Horizon 2020 Programme Committee for Environment.



## Conference sessions:

### 1a. Water Resources under the global change

Chair: Raimonds Ernšteins

October 5, 11:30 – 13:00

First author / other authors	Affiliation of the first author	Country	Paper title
Ariunsanaa Bat- Erdene <i>online</i>	National University of Mongolia	Mongolia	SHORT-TERM DYNAMICS OF DISSOLVED MAJOR AND TRACE ELEMENTS IN SEMI- CLOSED SHALLOW LAKE
Thi Kim Thoa Le <i>online</i>	HoChiMinh City University of Natural Resources and Environment,	Vietnam	MONITORING THE CHANGE OF SEA SURFACE SALINITY IN THE BIEN DONG OF VIETNAM 2011-2015
Solongo Tsetsgee <i>online</i>	National University of Mongolia	Mongolia	Distribution and chemical speciation of molybdenum in river and pond sediments affected by mining activity in Erdenet city, Mongolia
Valeriya Ovcharuk <i>online</i>	Odessa State Environmental University	Ukraine	Actual socio-economic problems with water resource management of Black Sea estuaries on climate change condition
Kim Tran <i>online</i>	HoChiMinh City University of Natural Resources and Environment,	Vietnam	Evaluating the impact of upstream sediment change on the deposition and erosion processes of the Hau River

### 2. Policy and management innovation for urban environments

Chair: Anton Shkaruba

October 5, 14:00 – 16:00

First author / other authors	Affiliation of the first author	Country	Paper title
Thi Van Ha Nguyen, Thi Kim Vo Trinh <i>Online</i>	HoChiMinh City University of Natural Resources and Environment,	Vietnam	Pathway and experience of building sustainable community in An Giang Province, Vietnam
Nadiya Maksymenko <i>online</i>	V.N. Karazin Kharkiv National University	Ukraine	Modeling of spatio-temporal changes in air pollution in Kharkiv
Kateryna Husieva <i>online</i>	Odessa State Environmental University	Ukraine	Green Infrastructure Development to Ensure Sustainability Transition in Odessa
Alla Nekos <i>online</i>	V.N. Karazin Kharkiv National University	Ukraine	VIDEOECOLOGICAL PROBLEMS OF URBAN SYSTEMS
Svitlana Burchenko <i>online</i>	V.N. Karazin Kharkiv National University	Ukraine	Research of the green-blue infrastructure of Kharkiv



Liga Biezina <i>Online</i>	University of Latvia	Latvia	Valmiera's experience in renovating buildings and using renewable energy resources in multi-apartment buildings
Maris Ozolins	University of Latvia	Latvia	Structural development of environment governance system in Latvian municipalities
Rasa Ikstena	University of Latvia	Latvia	Municipal waste governance in Latvia: overall assessment
Roberts Pūgulis	University of Latvia	Latvia	CYCLING GOVERNANCE DEVELOPMENTS IN LATVIA MUNICIPALITIES USING DISCIPLINARY GOVERNANCE INSTRUMENTS

### 3. Biodiversity and ecosystem services under the Global Change – management, monitoring, observations-

Chair: *Thaisa Bergamo*

October 6, 10:00 – 11:30

First author / other authors	Affiliation of the first author	Country	Paper title
Sergiy Sonko <i>online</i>	Uman National University of Horticulture	Ukraine	Ecological management and administrative-territorial structure: experience of practical application of the concept of noosphere ecosystems
Mariia Yuskovets <i>online</i>	Institute of Ecology of the Carpathians NAS of Ukraine	Ukraine	Features of the vegetation cover of forest ecosystems of Yaremche (Carpathians National Nature Park)
Vladislav Voronin <i>online</i>	V.N. Karazin Kharkiv National University	Ukraine	ANALYSIS OF METHODS OF ASSESSMENT OF ECOSYSTEM SERVICES OF FOREST LANDSCAPES
Khishigjargal Budjav <i>Online</i>	Khovd University	Mongolia	Precautionary of land degradation and Optimum pasture management in the forest-steppe ecological zones in Mongolia
Enkhtuul Demberel <i>Online</i>	Khovd University	Mongolia	PLANT FUND OF KHOVD INUVERSITY
Anatolii Kucher <i>Online</i>	V.N. Karazin Kharkiv National University	Ukraine	EFFICIENCY OF INNOVATIONS FOR SUSTAINABLE SOIL MANAGEMENT
Kai-Yun Li	Estonian University of Life Sciences	Estonia	UAS applied to smart agriculture and sustainable development
Raul Sampaio de Lima	Estonian University of Life Sciences	Estonia	The potential value of drones as tools for improved and sustainable forest management



## 4. Climate Change impacts and their monitoring

Chair: Kai-Yun Li

October 6, 12:00 – 13:00

First author / other authors	Affiliation of the first author	Country	Paper title
Liliia Kushchenko <i>online</i>	Odessa State Environmental University	Ukraine	Environmental runoff as indicators of social resilience of South of Ukraine to global climate change
Thu-Huong Hoang <i>Online</i>	Hanoi University of Science and Technology	Vietnam	COMBINATION IMPACT OF pH AND TEMPERATURE ON THE TOXICITY OF LEAD ON ZOOPLANKTON IN THE CONTEXT OF GLOBAL WARMING
Thaisa Bergamo	Estonian University of Life Sciences	Estonia	Impacts of Climate Change on Baltic Wetland Plant Communities
Kaupo Kokamägi	Estonian University of Life Sciences	Estonia	Identification of affecting factors of urban heat islands by means of UAV data

### 1b. Water Resources under the global change (*continued*)

Chair: Viktor Kireyeu

October 6, 14:00 – 15:00

First author / other authors	Affiliation of the first author	Country	Paper title
Zhannetta Shakirzanova <i>Online</i>	Odessa State Environmental University	Ukraine	DEVELOPMENT OF TOOLS FOR FORECASTING OF MAXIMUM SPRING RUNOFF TO THE BLACK SEA ESTUARIES REQUIRED FOR DECISION-MAKING
Maksym Martyniuk <i>Online</i>	Odessa State Environmental University	Ukraine	The modern method for calculating the maximum river runoff on the Vistula River Basin within Ukraine
Kārlis Aleksandrs Koņkova <i>online</i>	University of Latvia	Latvia	Municipal Lake Management in Latvia: Management Approaches and Instruments.
Maksym Martyniuk <i>online</i>	Odessa State Environmental University	Ukraine	Sewage treatment plants in small towns of Ukraine



## The Safe Conference:

To ensure the safety of conference participants, most of the conference talks will be done online, only with a relatively small group present in the venue – representatives of the conference hosting institution (Estonian University of Life Sciences) and guests from nearby locations, such as Riga (Latvia) and Pskov (Russia). We ensure that all the offline participants have passed the full course of the COVID-19 vaccination, and also keep all the standard COVID-19 safety measures, such as face masks, hand sanitising, social distancing, and use of a venue large enough to ensure the social distancing and fresh air circulation.

### Covid-19: instructions at the Estonian University of Life Sciences

It is allowed to participate in professional training and seminars if COVID infection safety is proven (vaccination certificate)

During face to face learning occurring outside the university campus (e.g. excursion, study trip, outing, “Physical Education” optional course, etc.), regulations adopted by the receiving institution shall be followed. Masks must be worn in the vehicle arranged to transport the participants.

### Preventive measures while being at the university

Students and staff members must wear masks in all university buildings.

Measures aimed at preventing the spread of the infection shall be followed in all university buildings, i.e. people present in the same room shall be dispersed, rooms shall be ventilated and aired, as well as surfaces – disinfected.

Teaching staff member shall register all the students attending a study session of face to face learning.



*The conference is organised by Estonian University of Life Sciences under the project Erasmus+ CBHE INTENSE - Integrated Doctoral Program for Environmental Policy, Management and Technology (<http://intense.network/>)*

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