

INTENSE PROJECT

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Nature-Based Solutions for Smart Cities Summer School

Mahilioŭ, Belarus, August 15-26, 2018

Event Report

Mahilioŭ, 2018

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Nature-Based Solutions for Smart Cities Summer School

Introduction

The Summer School “**Nature-Based Solutions for Smart Cities**” was carried out **in the framework** of ERASMUS+ project “Integrated Doctoral Program for Environmental Policy, Management and Technology – INTENSE” and International Visegrad Fund project “NEXT – Nature-Based Solutions for Smart Cities” (see the Agenda in Appendix 1).

Duration: August 15 – 26, 2019.

The working language: English.

Location: Belarusian-Russian University, Mahilioŭ.

Total number of participants: 27 students (Appendix 2) and 19 faculty and resource persons (Appendix 3).

The School target audience: PhD students, junior researchers, faculty members and practitioners interested in the development and management of Nature-Based Solutions for cities.

The Summer School was prepared by **Estonian Life Science University** (Tartu, Estonia) in cooperation with international partners.

The NEXT summer school aimed to be a vibrant mixture of interactive sessions, field trips, and group work in a unique Eastern European setting, designed to give participants hands-on project and research experience with nature-based solutions for smart cities.

Description

The purpose of the Summer School “**Nature-Based Solutions for Smart Cities**” was to provide students with the state-of-the-art field and analytical tools, learn about local and global challenges, visit five local case study sites in Mahilioŭ (each characterized by several interrelated environmental, land-use and social conflicts), form project groups, identify their focus topic, and do several days of supervised group work, followed by the presentation of their ideas and findings to the school faculty and stakeholders. The goal

of the group work was to identify a particular urban development challenge, get a multi-angle understanding of the problem, then either 1) propose a vision and a solution to address it with a feasible project plan, OR 2) develop research proposals containing the research question, its justification and research methodology.

The summer school included three periods:

- **Pre-School** (June 30-August 15, 2018)
- **In-School** (August 15-25, 2018)
- **Post-School** (September 1- 30, 2018)

Pre-School period included pre-course reading and case study materials (made available through a dedicated e-learning site from June 30, 2018), development and collection of course participants profiles with short visions for the course and an introductory webinar for pre-course preparatory assignment. On August 13th and 14th INTENSE students took part in European Drivers for Good Landscape and Biodiversity Governance in Eastern Europe Research Workshop (agenda, participant's profiles and the workshop report can be found in Appendix 4).



Summer School opening session

In-School period started August 15 with an introduction to the theory, methodology and application of nature-based solutions for smart cities, governance of smart cities

and nature-based solutions; introduction to the case study challenges and issues of urban & peri-urban landscape quality that need to be addressed, and methodology workshop on project planning and transition management.

On August 16, the students had a methodology workshop on observation techniques, repertory grid, mental mapping, and stakeholder interview techniques; followed by 'Mobile Lab' visits to Piačersk, Padmikolle, and The Valley of Dubravienka Case sites.



Field trip to the Valley of Dubravienka

On August 17, there was a Lecture on international best practices of applying urban nature-based solutions and development of smart cities; green corridors, green-blue diameters, development of green infrastructure; and a session on challenges for physical planning, urban infrastructure management and landscape architecture; followed by 'Mobile Lab' visits to Bujničy and Jubilejny Case sites.



Field trip to Bujničy Case Study area

On August 18, participants of the Summer School were divided into 7 research groups (3-5 students in each group):

Group 1. Revitalization of (post-)Soviet neighborhood with Nature-based solutions

Group 2. Summer housing in peri-urban area of Mahilyow

Group 3. Padnikollie Case Study Nature-based solutions

Group 4. The Piachersk Forest & Park Nature-based solutions

Group 5. Bujnichy Case Study Nature-based solutions

Group 6. Nature Based Solutions to enhance Ecosystem Services in the Dubravenka River Valley and Wetlands

Group 7. Assessment of the Dubravenka Valley wetland vision for its sustainable management

Groups prepared brief project proposals in cooperation with other groups, stakeholders and the faculty, then presented the ideas and receiving feedback.

On August 20, field research phase of the Summer School started.



Field research and group work



Title slides of the 7 group projects

The results of the group projects were presented on August 26 to stakeholders and the school faculty. After a short Q&A session, groups received feedback from the jury. After an award ceremony, Summer School students received certificates (see Appendix 5).



Summer School graduation ceremony



Summer School students with their certificates

Summer School Feedback

Summer School students were asked to fill in a feedback survey form. We have received 22 responses (survey results can be found in Appendix 6). Overall evaluation of the School was overwhelmingly favorable. All the responded students agreed that they had sufficient information about the aims and content of the course. Most of the students agreed that the pre-course materials were relevant and useful, the duration of the course was right, the level of the course was neither too advanced nor too basic, the course was scheduled appropriately, the classroom atmosphere was conducive to learning, the course employed a variety of teaching and learning activities, and that the course was useful for their research and professional development. 68.2% of respondents fully agreed that they were satisfied with the course. All the Summer School instructors demonstrate that they know the subject and topic they talk about; and that they are prepared for the classes. Instructors were inspiring and presented subject matter in ways that are intellectually challenging and interesting.

Conclusions

The Summer School was successful and all the objectives of the school were achieved. Invited academic staff presented EU, UA, BY and RU experience and advanced knowledge in Nature-Based Solutions and green infrastructure development. Meetings with stakeholders gave possibility to find out most problematic issues and share knowledge. The materials generated by the Summer School were used for the development of INTENSE MOOCs. The results of the group projects were prepared for submissions to national and international peer-reviewed journals. The recommendations developed by the project groups were disseminated to local authorities and other stakeholders for making decisions and implementing into practice. Summer School results will be presented by INTENSE participants at their home universities.

Detailed information can be found here:

<http://intense.network/training-events/summer-school-on-nature-based-solutions-for-smart-cities/> (Summer School page at INTENSE web portal)

<http://en.bru.by/content/departments/internationaldepartment/summerschool> (Summer School page at BRU web portal)

<https://www.facebook.com/groups/INTENSE.Doctoral> (INTENSE Facebook Group)

NEXT

Nature-Based Solutions for Smart Cities

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Introduction

The NEXT summer school will be a vibrant mixture of interactive sessions, field trips, and group work in a unique Eastern European setting, designed to give participants hands-on project and research experience with nature-based solutions for smart cities. After getting familiar with the state-of-the-art field and analytical tools, learning about local and global challenges, visiting five local case study sites in Mahilioŭ (each characterised by several interrelated environmental, land-use and social conflicts), participants will form groups, identify their focus topic, and do several days of supervised group work, followed by the presentation of their ideas and findings to the school faculty and stakeholders. The goal of the group work is to identify a particular urban development challenge, get a multi-angle understanding of the problem, then either 1) propose a vision and a solution to address it with a feasible project plan, OR 2) develop research proposals containing the research question, its justification and research methodology. Student reports would be collected and made available to all participants, stakeholders, and partner universities for curriculum development and learning purposes. Participants and faculty are encouraged to re-develop the final reports into academic papers. Students will be awarded a NEXT Certificate of Completion at the end of the course.

The NEXT summer school will be a valuable learning experience for everyone, but having a great time is also a summer essential. All participants will be students or young experts, therefore we would like everyone to have a memorable time with us in Mahilioŭ!



Summer school faculty:

Dr. **Yanina Benedetti**, Czech Agricultural University (Czechia)

Dr. **Maria Bihunova**, Slovak Life Science University (Slovakia)

Dr. **Matthijs Hisschemöller**, DRIFT – Dutch Institute for Transition, Erasmus University Rotterdam (The Netherlands), **course co-director**

Dr. **Agnieszka Karczmarczyk**, Warsaw Life Science University (Poland)

Attila Katona, Central European University (Hungary) and Hungarian Climate Alliance (Hungary)

Dr. **Viktar Kireyeu**, Institute for Geography and Ecology, Siberian Federal University (Russia) and NGO EKAPRAEKT (Belarus)

Dr. **Federico Morelli**, Czech Agricultural University (Czechia)

Dr. **Ilenia Pierantoni**, University of Camerino (Italy)

Dr. **Daniele La Rosa**, University of Catania (Italy)

Prof. **Massimo Sargolini**, University of Camerino (Italy)

Prof. **Kalev Sepp**, Estonian University of Life Sciences (Estonia)

Dr. **Anton Shkaruba**, Estonian University of Life Sciences (Estonia) and Hungarian Climate Alliance (Hungary), **course co-director**

Dr. **Hanna Skryhan**, Belarusian-Russian University and NGO EKAPRAEKT (Belarus), **course co-director**

Dr. **Marcin Spyra**, Martin Luther University of Halle-Wittenberg (Germany) and Opole University of Technology (Poland)

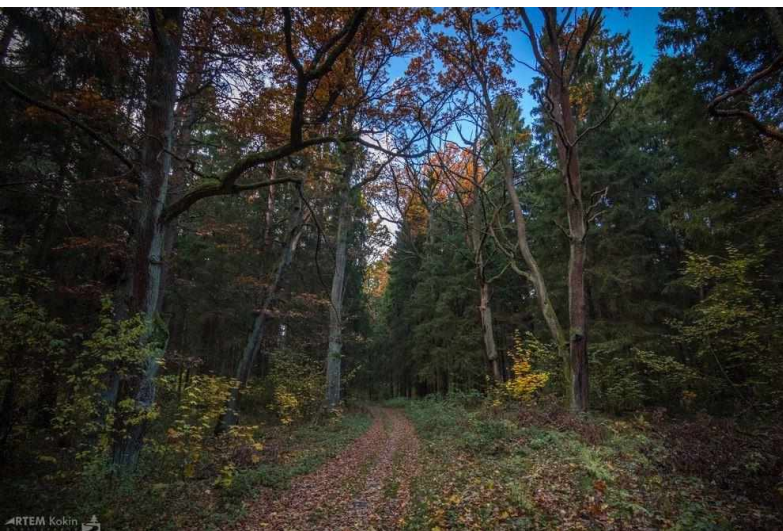
Program overview

- **Pre-School** (June 30-August 19, 2018): pre-course reading and case study materials (made available through a dedicated e-learning site from June 30, 2018), development and collection of course participants profiles with short visions for the course (to be compiled to the course participant directory) and an introductory webinar for pre-course preparatory assignment
- **In-School** (August 15-25, 2018):
 - o (1) scoping phase (August 15-19)
 - o August 14: Arrival, registration, meet & greet
 - o August 15: Introduction to the theory, methodology and application of nature-based solutions for smart cities, governance of smart cities and nature-based solutions; introduction to the case study challenges and issues of urban & peri-urban landscape quality that need to be addressed, methodology workshop on project planning and transition management
 - o August 16: Methodology workshop on observation techniques, repertory grid, mental mapping, and stakeholder interview techniques; ‘Mobile Lab’ visits to Case site #1, #2, and #3
 - o August 17: Lecture on international best practices of applying urban nature-based solutions and development of smart cities; green corridors, green-blue diameters, development of green infrastructure; challenges for physical planning, urban infrastructure management and landscape architecture; ‘Mobile Lab’ visits to Case site #4 and #5
 - o August 18: Making small research groups of 4 participants (ideally two groups for each of five cases), methodology workshop on visioning and back-casting; preparing brief project proposals in cooperation with other groups, stakeholders and the faculty, then presenting the ideas and receiving feedback
 - o August 19: Recreational and cultural activities, optional hiking or sightseeing, intercultural evening

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- (2) research phase (August 20-25)
 - August 20: Recap of Week 1, cradle to cradle urban design workshop, project planning workshop; stakeholder interviews for each case
 - August 21-24: Supporting workshops (e.g. impact mapping, cost-benefit analysis, proposal writing), group work (field trips on an as-needed basis and desktop research) on cases with the aim to propose viable solutions or research plans (each group supervised by a faculty member well familiar with the local context and containing Belarusian/Russian speaking students to facilitate the sociological part and studying the local sources)
 - August 25: Group project finalization; submission of draft project reports
- (3) reporting and graduation:
 - August 26: the groups present their ideas to stakeholders and the school faculty, undergo Q&A, jury feedback and proclamation of awards; graduation ceremony, farewell evening
 - August 27: departures
- **Post-School** (September 1-September 30, 2018):
 - the group leaders send the final version of group reports to be included to the edited on-line volume and case study database of the Belarusian-Russian University and Martin Luther University of Halle-Wittenberg. The final report should include an Executive summary (300 words); Introduction: system analysis, problem definition and framing (1500-2000 words); Proposed vision and solution (1500-2000 words); Implementation strategy, feasibility analysis, business plan and recommendations (1500-2000 words); References

Pre-selected case studies:



#1, Piačersk Forest: this is a c.a. 900 ha forest on city outskirts and peri-urban areas of the city of Mahilioŭ. The forest was for long a property of the Orthodox Church, and then belonged to the city with a portion managed by the Soviet Army. All that spared the forest from logging, however high land-use pressure and high potential value of the land for greenfield developers take a toll, and the forest is shrinking as a result of



numerous legal, half-legal and illegal activities. At the same time the forest is heavily mismanaged that results in pest infestations and also overloaded by visitors; the recreational footprint is particularly high due to weak or no visitor management, in particular poor information and visitor infrastructure. Yet the forest is a habitat to several red-listed and endangered species, and is recommended by the National Academy of Sciences to be listed as a natural monument. The vision of the municipality is to promote further recreational use of the Forest, while the opinions of other stakeholder groups are split. The Forest (including water bodies

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located within it) needs sustainable management solutions, and these solutions need to consider conflicting interests of stakeholder groups.

#2, Padmikolle: this is a large area in the valley of the River of Dnieper in the downtown part of the city. A significant part of it is periodically flooded, and this helped to spare the area from recent development. It, nevertheless, was used much more historically, as one can see from a number of important architectural and archaeological monuments. A portion of the area was known as a Jewish district; it was completely flatted down during the WW2, and most of it stayed undeveloped since then too. Due to historical and geographical circumstances, the area is still a large green patch right in the middle of the city and it is a uniquely rich in biodiversity, with wetlands, floodplain lakes and hundreds of veteran trees. The municipality is interested in a re-development of this area to an



amusement park with some lots allocated to developers. The redevelopment started all over sudden in 2016 and was put on a fast track in 2017. It is marked by conflicts with nature and cultural heritage conservation watchdog organisations and activists lamenting over quick developments disregarding and destroying important archaeological artefacts, veteran trees (against warning of the National Academy of Sciences) and wetlands. At the same time, broader public is very hopeful about the new developments, as currently the area is not

easily accessible and gives to many an impression of unpleasantly wild. Solutions are needed to ensure sustainable management of natural and cultural heritage, which would be appealing to local stakeholders.

#3, The Valley of Dubravienka: Dubravenka is a small river with a very impressive valley stretching from city outskirts and further through the very downtown area. It was very important historically due to its fortification value and as water supply. The downstream part of the valley (located in the very downtown) was heavily mismanaged, and the broad consensus (however contested by the environmental communities) in the city is that it needs to be a straight canal between concrete embankments, with all the areas along the watercourses fortified and developed. The middle stream part of the river is still an alive watercourse with beautifully natural floodplains, and mostly troubled by eutrophication originating from large districts of countryside-like wooden detached houses and by occasional waste dumping and storm drain outlets. There is no any particular vision for that part of the river as yet, although its high natural value suggests that it needs to be preserved and promoted. The vision is better to appear soon, as land-use and environmental pressures are growing.



#4, Bujničy: this suburban area downstream of Mahilioŭ has a significant concentration of historical and natural sites, including a Stone Age Settlement, an Iron Age Hillfort, a 17th century monastery,

Pipenberg Park (an 18th century estate of the Belarusian Governor), WW2 Memorial Battlefield and fortifications, Zoological Garden, picturesque floodplain and gullied landscapes. Most of these sites are being threatened by rapidly expanding housing development, unauthorized landfills, and the excavation of building materials. Large areas are occupied by abandoned water treatment facilities (filter beds and cascades of settling ponds). There are several conflicting interests in the area. Environmental activists see this area as a major hub of the city's green infrastructure network, constantly shrinking because of the housing development. Zoological Garden wants to expand to the floodplain area and Pipenberg Park. They have already constructed fences blocking the bicycle route along the Dnieper River and the access to the park for the local people and the visitors of Mahilioŭ Regional Horse Riding Centre.

#5, green patches in multi-storey areas: multi-storey areas developed in the Soviet past (and being developed till now) are usually dominated by green patches, such as green playgrounds, spontaneous and planted tree stands, remnants of gardens or forests existing there before, flower beds and lawns (often neglected) etc. The ownership and management arrangements for such patches are often unclear, contested or even unidentified. This, as well as changing behavioural patterns of tenants (e.g. less interest in gardening and landscaping near the house, significantly smaller numbers of kids playing and roaming around, different priorities and management practices of dedicated municipal agencies, tightened up security standards as regards trespassing etc etc) resulted in transformation and, in many instances, also in the degradation of such green patches.

Application process

Details about the application procedure and available travel grants are available from <http://en.bru.by/content/departments/internationaldepartment/summerschool>. The application deadline for those who applies for any form of financial assistance and/or needs visa in order to enter Belarus is **May 31, 2018**. The deadline for all other categories of participants is **June 20, 2018**.

Information about the host institution: *The project is hosted by the Department of Occupational Health and Safety (OHS) at Faculty of Construction Engineering, the Belarusian-Russian University (Mahilioŭ, Belarus). Its 16 resident and 3 visiting academic faculty (including 12 members with PhD degrees) deliver courses related to environmental protection, sustainable urban planning, OHS, industrial ecology, energy efficiency, management of industrial and natural hazards, and natural science methodology for all the educational programs run at the university, and supervise MSc & PhD students. The Department hosts the Research Laboratory of Environmental Technology, and student laboratories for civic defence, safe lifestyles, occupational safety, ecology. BRU is also working on becoming the centre of excellence in support to the Covenant of Mayors for Climate and Energy in Belarus*

(<http://www.covenantofmayors.eu>). BRU offers high quality venue with all the classroom and webcast equipment required for high-level international events. E-learning will be supported through the BRU Moodle-based e-learning platform. The main campus is located in the downtown Mahilioŭ and enjoys a direct access to a broad range of reasonably priced accommodation and catering options.



Information about the summer school organisers: *NEXT is co-organised and co-funded by a consortium of international partners financed by several funding programs, including CBHE Erasmus+ INTENSE (Estonian Life Science University), Visegrad International Foundation (Czech Agricultural University, Slovak Life Science University, Warsaw Life Science University, Hungarian Climate Alliance, Belarusian-Russian University, NGO EKAPRAEKT), Central European Initiative (Belarusian-Russian University), DAAD (Belarusian-Russian University), ERANET Urban Europe Smart-U-Green (Erasmus University Rotterdam, University of Camerino).*

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Course **NEXT - Nature-Based Solutions for Smart Cities (Draft programme - July 17, 2018)**
 Classroom **DRAFT - Final schedule is subject to change**
 Seminar room
 Date **August 15 - 26, 2018**

	August 14, Tuesday	August 15, Wednesday	August 16, Thursday	August 17, Friday	August 18, Saturday	August 19, Sunday	August 20, Monday	August 21, Tuesday	August 22, Wednesday	August 23, Thursday	August 24, Friday	August 25, Saturday	August 26, Sunday	
Theme		Conceptual foundations	Urban planning and ecology	Case studies and practical skills	Case studies and practical skills	Field trip	Field work	Field work	Field work	Field work	Field work	Desk work	Presentations and Conclusions	
9:30 - 9:45		Check in from 9:00; Course opening: addresses by senior faculty, university and city officials	Feedback from previous day	Feedback from previous day	Feedback from previous day	Suburban training, hiking and BBQ'ing	Introduction to observation techniques (Attila Katona)							
9:45 - 11:15		Course concept and objectives Group work organisation (Attila Katona, Anton Shkaruba, Kalev Sepp, Hanna Skryhan) + Introduction of participants Intentions for the week	Governing the transition to smart urban green (Matthijs Hisschemöller)	Case studies - bad, good, ugly and exciting (Viktar Kireyeu, Anton Shkaruba, Hanna Skryhan)	Finding your case and identifying your problem (all the faculty and participants)		PW5-1: Project implementation and management skills (Attila Katona), PW6 Statistics with no tears (Anders Persson)	Group field work	Group field work	Group work	Group field work	Group work	Group work	Group work
11:15-11:45		Break	Break	Break	Break		Break	Break	Break	Break	Break	Break	Break	Break
11:45-13:15		Nature-based solutions - concept and applications (Kalev Sepp, Attila Katona)	Urban ecology: Cities changing nature and nature changing cities (Federico Morelli, by skype)	Reports: Visegrad and EaP countries exploring NBS: lessons learned and not learned (Visegrad, MD and UA participants)	Group work		PW5-2: Project implementation and management skills (Attila Katona) (for a half of the class)	Group field work	Group field work	Group field work	Group field work	Group work	Group work	Group work presentations and discussions
13:15-14:15		Lunch Break	Lunch Break	Lunch Break	Lunch Break		Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14:15-15:45		Urban planning for smart cities: improving quality of life (Massimo Sargolini, Ilenia Pierantoni)	Nature-based solutions in planning concept and practice (Daniele La Rosa)	Project design: case study visit	Group work		Group field work	Group field work	Group field work	Group field work	Group field work	Group work	Group work	Group work presentations and discussions
15:45-16:15		Break	Break	Break	Break		Break	Break	Break	Break	Break	Break	Break	Break
16:15-17:45		PW1: Multicriteria analysis for city planning (Nikolai Bobylev) PW2: Smart wetlands for smart cities (Agnieszka Karczmarczyk)	PW3: Road and railway networks as drivers of distribution of alien plant species (Yanina Benedetti, by skype) PW4: NBS applications for urban planning (Daniele La Rosa)	Project design: case study visit	Short presentations of research proposals		Group field work	Group field work	Open house: sharing urban sustainability knowledge	Group field work	Sharing preliminary findings: groups' briefing and faculty feedback	Group work	Group work	Landing what we have learned (Attila Katona, Anton Shkaruba) Summer School Closing: certificates and goodbyes
														End of Summer School
Evening	Arrivals, check-in	19:00 Ice breaker dinner (details tba later)		After-work brainstorming gatherings										End of the term party (details tba later)

Colour key

- Lectures and discussions
- Introduction, Conclusion, Organisation
- Group Work
- Skills training, tutoring and presentations

Belarusian-Russian University

NEXT Nature-Based Solutions for Smart Cities



August 15-26, 2018



Participant Profile

First Name: OYUNCHIMEG

Last Name: NAMSRAI

Institution: National University of Mongolia (NUM)

Type of institution: State University

Country: BMONGOLIA

E-mail: oyunchimeg@seas.num.edu.mn



Area of work: Protected Areas' Management, Waste Control and Management, Environmental Audit

Intention for the Summer School:

The urban ecological problems, such as air and soil pollution caused by the continued growth of the population of the capital city Ulaanbaatar in recent years require an immediate scientific solution. I hope the summer course will benefit from sharing the different experiences and knowledge which will be applied to solve these problems. I am very happy with this privilege to be a part of the summer school and to learn international best practices and methodologies.

Short Bio:

Personal details:

Nationality: Mongolian

Place of birth: Ulaanbaatar city, Mongolia

Date of birth: 1966 April, 14

Education:

PhD candidate: Nowadays, National University of Mongolia, program of Geography

MSc in Geography: 1999, National University of Mongolia, faculty of Geography

BSc: 1985-1992, National University of Mongolia, faculty of Geography

General education: 1974-1984, Secondary School #33, Ulaanbaatar, Mongolia

Research field:

Protected areas' management

Environmental audit

Waste control and management

LinkedIn Profile: *Намсрай Оюунчимэг*

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Participant Profile



First name: Ayurzana
Last name: Amarjargal
Institution: University
Type of institution: Khovd State University
Country: Mongolia
E-mail: Amar731012@yahoo.com
Area of work: teacher in Chemistry
Intention for the Summer school:
We want learn from European university's professors.
We want to show, know and learn how to organize nature based smart city.
We will use result of this training in our team research.

Short bio:
Lecturer of Khovd State University
Research Interests: biochemistry , essential oils of plants

LinkedIn: -

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Participant Profile

First Name: Otakar

Last Name: Bursa

Institution: Department of Social Geography and Regional Development, Faculty of Science, Charles University in Prague

Type of institution: university

Country: Czech Republic

E-mail: bursao@natur.cuni.cz



Area of work: urban geography and spatial planning

Intention for the Summer School:

I would like to enhance my knowledge and share my viewpoints about social geography and urban planning of areas which have undergone a transformation in the post-soviet era.

Short Bio:

Otakar Bursa / urban geographer, graduate student of Social Geography and Regional Development at Charles University in Prague, Czech Republic. My current research concerns residential satisfaction in suburban localities of Prague with the focus on the availability of civic amenities and its impact. I am also interested in urban planning, especially in the countries of the so-called “Global East”.

Linkedin Profile: I do not use LinkedIn.

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Participant Profile

First Name: Elizabeth

Last Name: Loudon

Institution: Washoe County School District, Nevada

Type of institution: School District

Country: U.S.A.

E-mail: loudon_elizabeth@alumni.ceu.edu



Area of work: I provide environmental education to students at the elementary, middle, and high school levels.

Intention for the Summer School:

My main intentions are to connect meaningfully with other like-minded environmentalists and social justice activists. I hope to gain some inspiration with the intention of using what I learn in this summer school to improve my own curriculum designs and activist projects such as my planned Green Barrio education initiative at Burning Man's Spanish event 2019.

Short Bio:

Elizabeth Loudon holds an M.S. in the Environmental Science and Policy from Central European University, Budapest. She has taught environmental education to at-risk youth in Florida, and to college students via a conversation skills course in Nablus, Palestine. She graduated Magna Cum Laude from Stetson University in 2015, where she majored in Environmental Studies and Geography. Her social change advocacy was recognized in 2015 when she was awarded the Maldonado Selfless Service Award, and the June Brooks Award for Activism. In recognition of the need for creative youth education that is mindful of the human-environment relationship, she designed an eco-justice unit for pre-teens. Elizabeth's concentration is focused on how to nurture the development of environmental ethics when plants are widely considered objects, and students feel alienated from the natural world. Elizabeth is also continuing her work by designing/researching innovative ways to communicate about the nature.

Linkedin Profile:

<https://www.linkedin.com/in/elizabeth-loudon-03b13679/>

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Participant Profile

First Name: MADHU

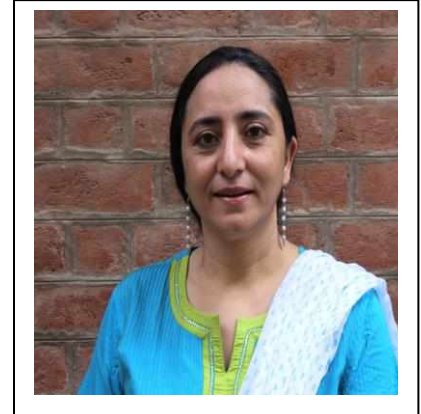
Last Name: BHARTI

Institution: CEPT UNIVERSITY

Type of institution: *UNIVERSITY*

Country: INDIA

E-mail: *madhubharti@cept.ac.in*



Area of work: Urban Development, Urban Poverty, Land and Housing, Slum and poor income areas

Intention for the Summer School:

I look forward to the Summer School specifically to deepen the knowledge and understanding about Nature based approach and its applications in an demanding and conflicting situations. I expect that the case study approach of the summer school will help me understand conflicting situations in different context, thus enrich my learning. Needless to say, summer school also gives opportunity to meet other professionals and learn from their experience.

Short Bio:

Madhu Bharti is a Professor at Faculty of Planning, CEPT University Ahmedabad, INDIA where she teaches urban development, land economics, housing and real-estate. She is a policy-planner with more than 30 years of experience in the sectors of urban development, slum-redevelopment and affordable housing, market driven approaches and real estate. Prior to joining CEPT University as a faculty she spent a long time (1986-2001) at the Housing and Urban Development Corporation (HUDCO), New Delhi engaged in the sector of housing and infrastructure finance. Along with academics she has been involved in a large number of research and consultancy projects for central government and various state governments, development authorities in India, NGOs and international funding/development agencies like UNDP, ADB, WHO.

Linkedin Profile:

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Participant Profile

First Name: Maike

Last Name: Stumpf

Institution: University of Bayreuth

Type of institution: *university*

Country: Germany

E-mail: mail.maike.st@gmail.com



Area of work: master's degree study program "Global Change Ecology" where I focus on social aspects of global change

Intention for the Summer School:

My interests are the challenges that urban development entails and how they can be solved sustainably. I hope to expand my knowledge on these challenges and solutions in Belarus and am looking forward to an interesting exchange with students and lecturers.

Short Bio:

Bachelor of Science in Landscape Ecology and Nature Conservation (University of Greifswald, Germany)

Volunteer at the cat shelter in Greifswald

Volunteer at the marine turtle conservation centre on Tioman Island, Malaysia

Linkedin Profile:

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Participant Profile

First Name: Maralgoo

Last Name: Ganbat

Institution: National University of Mongolia; Ministry of Environment and Tourism

Type of institution: *a university; government organization*

Country: Mongolia

E-mail: maralgoo@mne.gov.mn



Area of work: Forestry policy and coordination

Intention for the Summer School:

My specific expectations from engaging in the summer school program would be to develop the best possible research proposal and try to make it into a feasible project plan. Enrolling with the program will help me advance my theoretical knowledge, as well as gain an invaluable practical experience in my field to make a difference I am looking to make in my country.

Short Bio:

EDUCATION

National University of Mongolia (NUM) – present 2018 Ulaanbaatar, Mongolia
PhD in Forest Science

Beijing Forestry University (APFNet Scholarship) – July 2017 Beijing, China
Master of Management in Forest Economics and Management

National University of Mongolia (NUM) – June 2015 Ulaanbaatar, Mongolia
Bachelor of Science in Forestry

“Baigali-ekh” Pre-University of NUM – June 2011 Ulaanbaatar, Mongolia
High school education, specialized in Biology

“Hobby” English Language High School – June 2009 Ulaanbaatar, Mongolia
Middle school education

EXPERIENCE

Ministry of Environment and Tourism, Specialist in Forestry Policy and Coordination Department

UN-REDD Mongolia National Program, Translator and Coordinator

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

People Centered Conservation NGO, Admin Assistant,

Regional Central Asia Fire Management Resources Center, Assistant researcher

“Global Kids English” School, English language teacher,

Discover magazine – Climate and the Khan (research about climate and 13th century Mongol empire), Assistant researcher

Linkedin Profile: Maralgoo Ganbat

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018



Participant Profile

First Name: Vladyslav

Last Name: Mykhailenko

Institution: Odessa State Environmental University

Type of institution: university

Country: Ukraine

E-mail: vladislav.mykhailenko@gmail.com



Area of work: ecology, air pollution, persistent organic pollutants, reduction of negative impact on the environment, waste, sustainable development

Intention for the Summer School: To learn new ideas for the "green" development of cities and working mechanisms for the implementation of projects. Get skills to work with sponsors and engage stakeholders. Get new contacts in the field of ecology, which could be applied in the development of my scientific work.

Short Bio: This year I graduated from the university. Also this year I won an international competition of scientific ecological works, presenting the theme of my diploma project. In addition to science, I am interested in judo and poetry. I am very glad to participate in this project; it is my first such experience.

LinkedIn Profile: <https://www.linkedin.com/in/vladyslav-mykhailenko-38a4a8129/>

Facebook: <https://www.facebook.com/mykhailenko.fameowner>

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Rebecca

Last Name: Gerigk

Institution: Leuphana University Lüneburg

Type of institution: *University*

Country: Germany

E-mail: r.gerigk@web.de



Area of work: Master in Global Sustainability Science

Intention for the Summer School:

I am looking forward to learn about nature based solutions in an intercultural environment. I am curious to work with belarussian stakeholders to solve current problems related to community and sustainability.

Short Bio:

2012-2016: Bachelor of Arts in political science (2016), Goethe University Frankfurt

2015: Internship in the Federal Federal Ministry for Environment, Agriculture and Sustainability Wiesbaden, Germany

2016-2018: Master of Science in Global Sustainability Science at Leuphana University Germany and Arizona State University

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Alexandr

Last Name: Iscenco

Institution: Moldovan Environmental Governance Academy (MEGA)

Type of institution: *NGO / social startup*

Country: Moldova

E-mail: alexander@megageneration.com



Area of work:

Green / social Entrepreneurship, Environmental and Natural Resource Economics, Ecosystem Services, Biodiversity Conservation, Sustainable Development, Climate Change Mitigation and Adaptation, E-learning, Gamification, Robotics and IoT, Open-source Eco-innovations.

Intention for the Summer School:

I am joining the NEXT Summer School to gain ideas and practical inputs for my current research and training services related to ecosystem services and nature-based solutions (NBS). Therefore, I expect the educational experience to be rich in both theory and practical examples that I can later use in my research and trainings. I also wish to explore the natural environment of Belarus and its NBS case practices.

Short Bio:

I am an environmental researcher, eco-innovator, and social entrepreneur with passion in nature conservation and sustainable development. I have a Master degree in Environmental and Natural Resource Economics from the University of Copenhagen, as well as numerous certificates in Sustainable Development and Management from the University of Oslo and UC Berkeley.

Nowadays I lead the development of the organization Moldovan Environmental Governance Academy (MEGA) and its main products, the MEGA platform and application. I also provide services of gamification and management of environmental and social projects, as well as serve as independent expert for project evaluation at the Education, Audiovisual, and Culture Executive Agency (EACEA) of the European Commission.

As a hobby, I teach social robotics, hardware programming, and Internet-of-Things via the FACE ROBOTS courses and write science fiction novels, such as "The Monster: Blade of Darkness".

Linkedin Profile: <https://www.linkedin.com/in/alexandriscenco>

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Oscar

Last Name: Alvarado

Institution: Utrecht University

Type of institution: *University*

Country: Netherlands

E-mail: o.a.alvarado@students.uu.nl



Area of work:

I am an interdisciplinary environmental professional with a technical background in hydrology and environmental science. I am interested in various aspects of environmental well-being and sustainability; from water resource management to sustainable policy-making. My recent international experience includes managing the environmental department of a gold-producing mine operation, facilitating the development of a sustainable ecotourism industry, and undertaking research projects on behalf of local and multi-national institutions.

Intention for the Summer School:

I am really looking forward to meeting fellow students from around the world who are working in environmental fields. I am eager to learn more about the tools, best practices and techniques used to assess, design and implement effective nature-based solutions in urban areas. I am particularly interested in replicating the technical components of nature-based solutions in developing countries.

Short Bio:

MSc in Water Science and Management (Utrecht University)
MA in Environmental Security (United Nations University for Peace)
BASc in Biomedical Science / Economics (McGill University)

Director of Sustainability at BacTech Environmental
Environmental Director at ARK Armenia

LinkedIn Profile:

<https://www.linkedin.com/in/oalvarado/>

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Hue

Last Name: Pham Thi

Institution (Student PhD): School of Environmental Science and Technology

Type of institution (Student PhD): Ha Noi University of Science and Technology

Working Place: University of Transport Technology

Country: Vietnam

E-mail: huept@utt.edu.vn/huephammt@yahoo.com.vn



Area of work: Teaching and Research on Environmental Science.

Intention for the Summer School:

- Understanding deeply the solutions that are implemented for smart cities through this course. Especially, I have a chance to exchange science and culture for professors, scientists and friends from many countries on the world in general and Belarus in particular. Desiring to be joined on implementation the international project after this course.

Short Bio:

I am a Lecturer of University. I have taught some subjects such as the project management, Environment on Building, emission treatment technology,...

LinkedIn Profile: www.linkedin.com/in/pham-thi-hue-aa843b16a.

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Thi Hong

Last Name: Nguyen

Institution: Ho Chi Minh City University of Natural Resource and Environment

Type of institution: University

Country: Viet Nam

E-mail: hongnguyenenv@gmail.com

Area of work: teaching, researching, environment,



Intention for the Summer School:

Please, write in short (2-3 lines), what are your specific expectations as regards the summer school

- Indeed, I am very interested and excited about this issue. Therefore, I hope that this training workshop will bring useful knowledge for me and participants.
- I expect that I will have opportunity to exchanged experiences with all people in this training course. Particularly, effective methods build Smart Cities, after that, I want to apply my knowledge to set up project about Smart Cities.

Short Bio:

Full name NGUYEN THI HONG

Address Ho Chi Minh City Univesity of Natural Resources and Environment, HCMUNRE,
Ministry of Natural Resources and Environment, MONRE

Master of Environmental Engineering (2009 – 2011)

Environmental Management, Ho Chi Minh City University of Technology, Vietnam,
Ministry of Education and Training

Bachelor of Environmental Science (2003 – 2007)

Environmental Sciences, Ho Chi Minh city University of Science, VNU – HCM,
Vietnam

PRINCIPAL AREAS & RESEARCH INTERESTS

+ Ecotoxicology and Risk Assessment

+ Urban and Industrial Environment Management

+ Clean development mechanism (CDM); the issues related to the use of clean energy, renewable energy technology

Nature-Based Solutions for Smart Cities
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Participant Profile

- + River Basin Management
- + Environmental monitoring, environmental economics

Linkedin Profile:

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018



Participant Profile

First Name: Áron

Last Name: Békefi

Institution: Budapest University of Technology and Economics

Type of institution: University

Country: Hungary

E-mail: aronbekefi@hotmail.com



Area of work: Master in Regional and Environmental Economic Studies

Intention for the Summer School:

I am convinced that this summer school is going to be very useful for me because it offers the opportunity to meet and work with students from other countries so that we can share our ideas and see each other's points of view. Since I have never been to Belarus, these ten days can also be a perfect occasion to become acquainted with the country.

Short Bio:

I obtained my first degree in Business Administration at the Vienna University of Economics and Business. Since then I have been working for several international companies as well as for the Hungarian Ministry of National Development. Currently, I am pursuing Master's degree in Regional and Environmental Economic Studies at the Budapest University of Technology and Economics and working as German language editor at the Hungarian Television.

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Larissa

Last Name: Walker

Institution: Christian-Albrechts-University Kiel

Type of institution: University

Country: Germany

E-mail: larissa.walker@posteo.de



Area of work: M.Sc. Sustainability, Society and Environment

Special interest: political ecology, urban development, permaculture, environmental justice, migration and gender studies

Intention for the Summer School:

Focus on urban studies & climate change mitigation/adaptation; to get an inside into other discourses/ perspectives; experience of a summer school & international group / study abroad

Short Bio:

ACADEMIC EDUCATION

- B.A. Educational Sciences
- Semester abroad: Universidad de la Habana, Cuba

INTERNSHIPS

- agisra e.V. – Information and counseling center for female migrants and refugees
- Federal Ministry of Economic Cooperation and Development, Germany (BMZ)
- Youth work with unaccompanied refugees

WORK EXPERIENCE & VOLUNTEER WORK

- University Project PermaWandel (Permaculture Community Garden)
- Political Education in schools (NDC e.V.)

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Olga

Last Name: Likhacheva

Institution: Pskov State University

Type of institution: *university*

Country: Russian Federation

E-mail: olga.lich@mail.ru



Area of work:

- plant and lichen diversity in ecosystems under a gradient of environmental impacts, environmental monitoring, biodiversity conservation;
- green areas management;
- curriculum development and teaching of environmental governance concepts for/to under- and postgraduate natural science students

Intention for the Summer School:

- hope to visit new places, meet friends, colleagues and new people, exchange ideas, learn, learn and learn

Short Bio:

Olga is an associate professor at the Department for Botany and Plant Ecology at Pskov State University. She teaches courses on botany and ecology and since 2014 also courses on governance of natural resources (under an EU Jean-Monnet Module). Her academic background is biology (specialist degree in biology and chemistry, PhD in biology).

Olga's current research focuses on lichen and plant diversity of Pskov region and on more general issues of biodiversity conservation, including environmental monitoring and management of urban green areas.

Since 2011 Olga is involved in several international projects on urban forestry, green areas management, curriculum development for environmental governance education, most of them founded by the EU (TEMPUS, ERASMUS+, "Estonia-Latvia-Russia" ENPI CBC Programme).

Linkedin Profile:

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Tara

Last Name: Freude

Institution: Leuphana University Lüneburg, Germany & Arizona State University, USA

Type of institution: University

Country: Double Degree in Germany and USA

E-mail: tara.freude@gmail.com



Area of work: Student, Global Sustainability Science

Intention for the Summer School:

I am passionate for finding solutions for the challenges of the 21. century. I am grateful to do so with an international group of people who share that goal. I learned Russian for two semesters in my undergraduate program and I am very excited to speak it in real life while learning about Belarus.

Short Bio:

I grew up in the south of Germany, studied Tourism with an emphasis on Sustainable Tourism and Destination Management in my undergraduate program and Global Sustainability Science with an emphasis on Future Cities and Sustainable Food Solutions in my graduate program. I lived abroad in Ecuador, the Dominican Republic and Arizona, USA. Currently I live in the cold German north. I will graduate this fall.

Linkedin Profile: N/A

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Phuong

Last Name: Tran Thi Bich

Institution: Ho Chi Minh University of Natural Resources and Environment

Type of institution: University

Country: Vietnam

E-mail: ttbphuong@hcmunre.edu.vn



Area of work: *Lecturer and Researcher*

Main Duty:

- Teaching subjects "Ecology, management of forest resources and biodiversity, environment impact assessment, Environmental Management, Environmental policy and law"
- Took part in the training program building on natural resources and environment management field.
- I had supervised undergraduate students and other research activities with many the related to environment ecology research, biodiversity research and environmental management for sustainable development topics.

Intention for the Summer School:

As a lecturer and researcher, I always keep up with information for teaching and give a new idea. I wish to attend the course on "Nature-Based Solutions for Smart Cities", this course will help me have more information and research method relating nature-based solutions for Smart Cities. I also hope that I can share the knowledge and experience gained from the process of participating in class to colleagues, students and other people in the field.

Short Bio:

My name is Phuong, I was born and raised in a central region, Quang Ngai City. Since 2001, After finishing my bachelor's degree in Ecology and environment, I continued to study a master's degree in Environmental Sciences, now I am a lecturer - Ho Chi Minh City University of Natural Resources and Environment.

Linkedin Profile:

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Svitlana

Last Name: Demianenko

Institution: Odessa State Environmental University

Type of institution: University

Country: Ukraine

E-mail: svetlanademian@gmail.cjv



Area of work: Sustainable Development, Environmental Policy, Environmental Protection, Environmental Management

Intention for the Summer School:

It proves to be a stupendous opportunity to study the challenging issues related to sustainable decisions and development. The interactive approach, group and field trip are very interesting for me. I am interested in this school also as a lecturer, since such school provides an opportunity to get acquainted with the modern technologies of teaching and communication with students.

Short Bio:

At present I work as an Associate Professor at the Department of Environmental Economics. I've taught such courses as Business Planning of Innovations Projects, Green Tourism, Tourism Management and Marketing, Theory of Ecological-Economic Analysis.

Linkedin Profile:

[linkedin.com/in/svetlana-demianenko-aaa9148b](https://www.linkedin.com/in/svetlana-demianenko-aaa9148b)

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Fruzsina

Last Name: Bak

Institution: Corvinus University of Budapest

Type of institution: University

Country: Hungary

E-mail: fruzsinabak@gmail.com

LinkedIn: www.linkedin.com/in/fruzsinabak



Area of work:

Since March 2018 I have been working at Hungarian Development Bank as an economist trainee, where I work on evaluation of European Union projects.

I worked as a trainee researcher, an interviewer for the Ministry of Interior of Hungary–Municipal Coordination Office. I analyzed the relationship between the residents and the local government.

Intention for the Summer School

Since my BSc studies I have been interested in urban development challenges and community planning. I'd like to enhance my knowledge in these fields and collect personal experience about nature-based solution for smart cities in the Post-Soviet area, where the tradition of urban planning is different from the Hungarian system.

Short Bio:

Education

2016- Economist, MA of Regional and Environmental Economic Studies at Corvinus University of Budapest

2013-2016 Geographer BSc. regional analyst at the Faculty of Science of Eötvös Loránd University (ELTE) Budapest, Hungary

Affiliation

2018 - The Hungarian Society for Urban Planning (MUTK)

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

Work experience

2018 - Hungarian Development Bank- Trainee

- Evaluating of European Union projects
- Administrative task in „Hungarian Smart City Network and Ecosystem” project

2017-2018 - Ministry of Interior Municipal Coordination Office - Trainee Researcher, Interviewer

- Making analyses around the country which consist of 5-6 interviews in every city and village

2017 - Hungarian Central Statistical Office - Interviewer

- Village research - focusing on disadvantaged areas
- Making in-depth interviews and questionnaires

Hobby

I do sports regularly, and happily walk in the nature with my friends.

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Pham

Last Name: Hong

Institution: Hanoi University of Science and Technology

Type of institution: *university*

Country: Viet Nam

E-mail: hongtlu2016@gmail.com



Area of work: Environmental department, Thuy Loi University, Viet Nam

Intention for the Summer School:

I think that the topic “Nature-Based Solutions for Smart Cities” is very exciting, diverse and tangible. This course would provide me a lot of ideas and knowledge about how to develop further my research topic to contribute to build a Hanoi in the future.

Short Bio:

- Ph.D. student at Hanoi University of Science and Technology
- My Ph.D. research is focusing on developing a monitoring system which can help control urban lake pollution
- Working as a lecturer in Thuy Loi University
- Passion to learn a new thing

Linkedin Profile:

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Tahir

Last Name: Islam

Institution: Mohammad Ali Jinnah University

Type of institution: *university*,

Country: Pakistan

E-mail: kktahir@hotmail.com



Area of work: I am Dr Tahir Islam. I am a Social Scientist. My areas of specialization Marketing, Consumer Behavior, Psychology, Sustainability, Sustainable Development Goals, and Corporate Social Responsibility. I have published articles with the Top-Tier journals. I want to be the best scholar in the field of my research.

The intention for the Summer School:

I want to learn about the smart cities. My intentions to learn from the Professors and participants. I am living in the country where people don't have an idea about the smart cities. Thus, I have intentions to learn about sustainable smart cities from this prestigious activity.

Short Bio:

<https://www.jinnah.edu/member/dr-tahir-islam/>

Linkedin Profile:

<https://facebook.com/drtahirkk>

<https://www.linkedin.com/in/dr-tahir-islam-5764b143/>

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Igor

Last Name: Prado

Institution: Clisap, University of Hamburg

Type of institution: University

Country: Germany

E-mail: igorvfprado@gmail.com



Area of work: Climate adaptation, risk mitigation, stakeholders involvement

Intention for the Summer School:

Learn more about applications in practice of Nature Based Solutions in urban environments. Learn more about participatory approaches and stakeholders involvement techniques for urban decision-making.

Short Bio: Graduated in Civil Engineering with emphasis in Production Techniques, Federal University of Santa Catarina, Brazil. Currently pursuing a master degree in Integrated Climate System Sciences at University of Hamburg. Research focus on climate adaptation, risk mitigation and participatory approaches. Experience in the fields of sustainable urban development, sustainability in transportation systems and humanitarian logistics.

Linkedin Profile: <https://www.linkedin.com/in/igor-prado-a21aa732/>

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Sergey

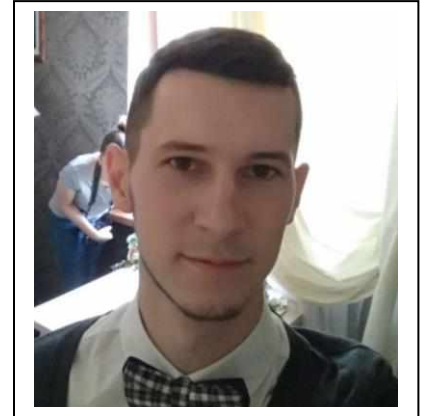
Last Name: Shyrokostup

Institution: Karazin Kharkiv National University

Type of institution: *public body*

Country: Ukraine

E-mail: sergeyshyrokostup@gmail.com



Area of work: municipal solid waste, city, suburban zone, criteria, indicators, ecological management of the territory

Intention for the Summer School:

It is very interesting to know how problem with solid waste is solved in other countries. We are talking about the implementation of projects. Because in my country there a lot of different projects on paper but not in real life. So, I want take some experience in creation of project which can be realized.

Short Bio:

I am 26 years old. I am from Kharkiv. But Kharkiv is not my native city. I live here since 2010. I study and work at Karazin Kharkiv National University. The field of my research is solid waste and its manage in suburban areas.

Linkedin Profile:

[https:// www.facebook.com/sergeyshyrokostup](https://www.facebook.com/sergeyshyrokostup)

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Vera

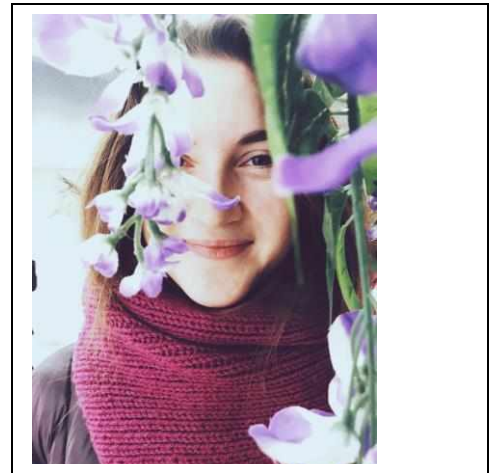
Last Name: Tupikina

Institution: Novosibirsk state technical university

Type of institution: state university

Country: Russia

E-mail: tupikina-va@mail.ru



Area of work: environment safety, environmental legislation

Intention for the Summer School: I assume that the acquired knowledge and experience will help to continue training, and will be extremely necessary for my professional activity.

Short Bio: I work in the Department of Roshydromet in the Siberian Federal district. I am fond of sailing and self-defense in my free time. I love travelling.

LinkedIn Profile: I don't have an account on this profile.

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile



First name: Dagva
Last name: Unurnasan
Institution: University
Type of institution: Khovd State University
Country: Mongolia
E-mail: onornasan@gmail.com
Area of work: Mathematics and informatics teacher
Intention for the Summer school:
We want learn from European university's professors.
We want to show, know and learn how to organize nature based smart city.
We will use result of this training in our team research.

Short bio:
Lecturer of Khovd State University
Research Interests: Methodology for integrating ICT in education, ICT application

LinkedIn: -

Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Participant Profile

First Name: Valerii

Last Name: Rusakov

Institution: Novosibirsk state technical university

Type of institution: university

Country: Russia

E-mail: v.e.rusakov@mail.ru



Area of work:

Fly ashes, perlite microspheres, foam concrete, thermal insulation.

Intention for the Summer School:

I am planning to get in-depth knowledge, skills, communication and connections (especially connections) in the field of environmental protection. It will be useful for me to take part in practical projects and scientific research with nature-based solutions for smart cities.

Short Bio:

I'm good in calculus, physics and chemistry.

I love music, science, workout and our planet.

I hate tobacco smoke, alcohol and dirty busses' gas emissions (there are a lot of transport use old engines in our country, that runs on fossil fuel, and produce harmful emissions by incomplete fuel combustion, I like trolleybuses and trains more).

I'm married.

Linkedin Profile:

rusakovv 15070180











Nature-Based Solutions for Smart Cities
Summer School, Mahilioŭ (Belarus), August 15-26, 2018

NEXT

Nature-Based Solutions for Smart Cities

Summer School, Mahilioŭ (Belarus), August 15-26, 2018

Faculty and resource persons

Picture	Name	Affiliation	Contact
	Dr. Yanina Benedetti	Czech University of Life Sciences, Prague, Czechia	+420 22438 2142 ybenedetti73@gmail.com
	Dr. Mária Bihuňová	Slovak University of Agriculture in Nitra, Nitra, Slovakia	+421376415425 maria.bihunova@uniag.sk ; bihunova.maria@gmail.com
	Dr. Nikolai Bobylev	St.-Petersburg State University, St.-Petersburg, Russia	+79117598971 nikolaibobylev@gmail.com ; n.bobylev@spbu.ru
	Dr. Matthijs Hisschemöller	Erasmus University Rotterdam, Rotterdam, the Netherlands	+31(0)104088775 hisschemoller@drift.eur.nl , m.hisschemoller@kpnplanet.nl
	Dr. Agnieszka Karczmarczyk	Warsaw Life Science University, Warsaw, Poland	+48225935382 agnieszka_karczmarczyk@sggw.pl
	Attila Katona	Central European University, Hungarian Climate Alliance, Budapest, Hungary	+36306303005 attilaakatona@gmail.com
	Dr. Viktor Kireyeu	Siberian Federal University, Krasnoyarsk, Russia; NGO EKAPRAEKT, Mahilioŭ, Belarus	+375296700839 kirejeu@yahoo.com
	Dr. Petr Kiryushin	Moscow State University, Moscow, Russia	+74959392675 pkiryushin@gmail.com
	Dr. Federico Morelli	Czech University of Life Sciences, Prague, Czechia	+420 22438 3760 fmorellius@gmail.com
	Anders Oscar Persson	Uppsala University, Uppsala, Sweden	andersoscar.persson@gmail.com

Picture	Name	Affiliation	Contact
	Dr. Ilenia Pierantoni	University of Camerino, Ascoli-Piceno, Italy	ilenia.pierantoni@unicam.it ; ilenia.pierantoni@gmail.com
	Diana Pungar	Estonian University of Life Sciences, Tartu, Estonia	+37277313773 diana.pungar@emu.ee ; diana.pungar@gmail.com
	Dr. Daniele La Rosa	University of Catania, Catania, Italy	dlarosa@darf.unict.it
	Prof. Massimo Sargolini	University of Camerino, Ascoli-Piceno, Italy	+390737404268 massimo.sargolini@unicam.it
	Prof. Kalev Sepp	Estonian University of Life Sciences, Tartu, Estonia	+37277313777 kalev.sepp@emu.ee
	Dr. Anton Shkaruba	Estonian University of Life Sciences, Tartu, Estonia; Hungarian Climate Alliance, Budapest, Hungary	+375259069512 anton@mespom.eu
	Dr. Hanna Skryhan	Belarusian-Russian University, Mahilioŭ, Belarus	+375222222450 skrigan_anna@tut.by
	Dr. Marcin Spyra	Martin Luther University of Halle- Wittenberg, Germany; Opole University of Technology, Poland	marcin.spyra@geo.uni-halle.de

Contacts

Iryna Shylava +375298469122 (also WhatsApp & Viber), Hanna Skryhan (+375293410882, Viber & WhatsApp), Viktor Kireyeu (+375296700839, also Viber), Anton Shkaruba (+375259069512 for phone or +31627524975 for WhatsApp & Viber)



Integrated Doctoral Program for Environmental Policy, Management and Technology / INTENSE

586471-EPP- 1-2017- 1-EE- EPPKA2-CBHE- JP

European drivers for good landscape and biodiversity governance in Eastern Europe

Report on Event

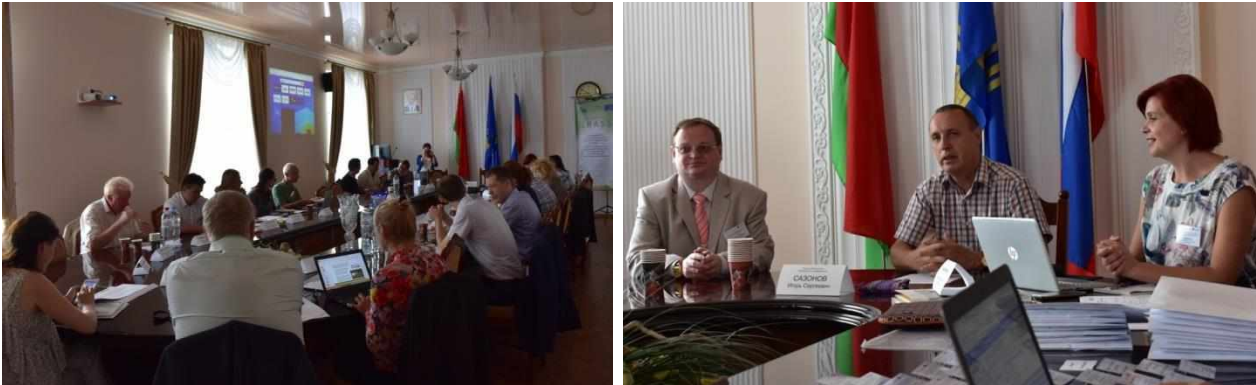
Mahilioŭ, 2018

Compiled by Olga Likhacheva and Anton Shkaruba

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European drivers for good landscape and biodiversity governance in Eastern Europe

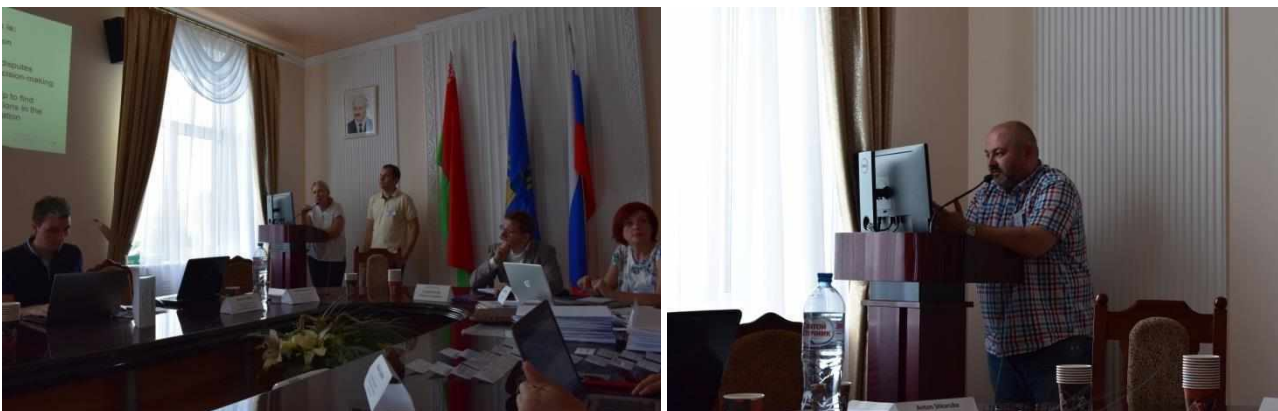
August 13-14, 2018, Mahilioŭ, Belarus



Opening of the workshop by the Belarusian-Russian University rector Igor' Sazonov

Workshop “**European drivers for good landscape and biodiversity governance in Eastern Europe**” was held in Belarusian-Russian University (Mahilioŭ, Belarus) on August 13-14, 2018.

The aim of the seminar was to discuss the state-of-the-art in the field of developing EU biodiversity management policies, as well as landscape, urban and territorial planning in the context of the Eastern Partnership countries (in particular, Belarus and Ukraine) and Russia.



Talks by Olga Zakharova and Siarhei Mahonau on Aarhus convention in Belarus

The need for such an open discussion is long overdue. A significant array of environmental legislation of the Eastern Partnership countries and Russia, as well as their policies and strategies for the protection of biodiversity and to ensure the rights of citizens to a safe environment, are formed under the influence of regulatory documents of the EU and its member countries. Moreover, national legislation has been harmonized with multilateral international environmental agreements, many of which have been developed through EU initiatives. Such agreements include Council of Europe conventions: the European Landscape Convention (Florence, 2000) (not yet ratified by Belarus and Russia) and the Bern Convention on the Conservation of Wildlife and Natural Habitat in Europe (Bern, 1979). Another important international document promoted by



Panel discussion, talk by Anton Shkaruba (Estonian University of Life Sciences)

the EU is the UN Economic Commission for Europe Convention on Access to Information, Public Participation in Decision-Making and Access to Justice in Environmental Matters (Aarhus Convention). There are still a number of agreements with similar status and history, but these three were selected for discussion as part of this event, as the most relevant to its subject.

The relevance of such a discussion is due to the fact that such documents with a “European” history were developed, primarily with an eye to the realities of the EU and mainly by its experts. This does not detract from their importance and the importance of the goals set in them, but not all norms, regulations, methods and indicators “suitable” for the EU can be successfully applied in countries with different socio-political, economic and natural contexts. At the seminar, opinions and recommendations of scientists, representatives of public organizations and authorities of Belarus, Ukraine, Russia and the EU countries on the experience of implementing the Conventions and national regulations and policies created on their basis will be heard. This will allow to form a reasoned position on the development of more effective mechanisms for achieving the goals and objectives of the Conventions and, ultimately, improving the quality of management in the field of environmental protection.



Volodymir Rozhak (Institute of the Carpathians' Ecology) taking part in the discussion



Talks on Bern Convention by Nikolai Sobolev (Institute of Geography, Russian Academy of Sciences) and on Florence convention by Volodymir Rozhak (Institute of the Carpathians' Ecology)

The main interest of the participants in the discussions was directed to international agreements developed within the framework of EU initiatives: the European Convention on Landscapes (Florence), the Bern Convention on the Conservation of Wildlife and Natural Habitat, the UN Economic Commission for Europe Convention on Access to Information, Public Participation in the Adoption decisions and access to justice in environmental matters (Aarhus Convention). The first day of the seminar was dedicated to the discussion of these conventions, their mechanisms for good landscape and biodiversity governance, the opportunities, constraints and the experience of their implementation in Belarus, Ukraine and Russia.



Agnieszka Karczmarczyk (Warsaw Life Science University), Kalev Sepp (Estonian University of Life Sciences), Attila Katona (Central European University), Matthijs Hisschemöller (Erasmus University Rotterdam) moderating the panel discussion

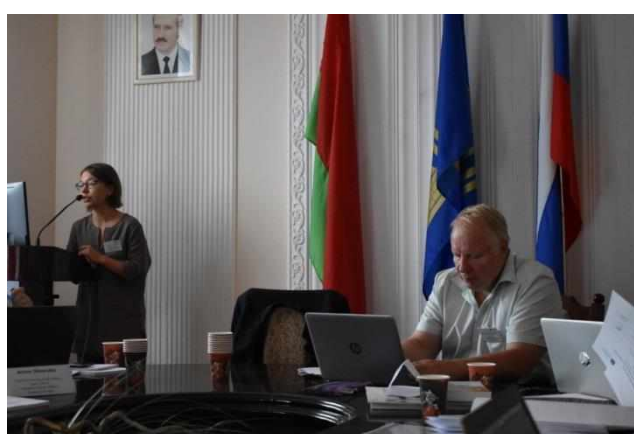


Anna Sidorovich (Center for Bioresources, National Academy of Sciences of Belarus) taking part in the discussion

On the second day, the EU Research and Innovation Strategy in the field of Nature-Based Solution, published by the European Commission in 2015, became the subject of the discussion. This Strategy involves the development and implementation of innovative “green” solutions to improve the quality of the urban environment and suburban territories. The strategy provides not only methods and goals for landscaping and enhancing the environmental functionality of existing and creating new green spaces, but also mechanisms to engage business and the public in joint elaboration of innovative solutions.



Nikolai Bobylev (Saint-Petersburg State University) and Matthijs Hisschemöller (Erasmus University Rotterdam) moderating the wrap-up session



Talk by Marina Abramchuk (Michael Succow Foundation for the Protection of Nature)

The experience of implementing this Strategy in the EU countries was demonstrated by the representatives from Hungary, Slovakia and Poland, as well as concept of smart cities and ways of transition to smart cities by experts from Italy and the Netherlands. The seminar participants got familiar attempts to implement similar ideas and approaches in the East European context.

The workshop assembled a group of high-profile academics, representatives of NGOs, international organisations and governments from Belarus, Italy, Hungary, Russia, Germany, Latvia, Estonia, Ukraine, Poland, Slovakia and the Netherlands, analysed their experiences and ideas.



Reflection by Matthijs Hisschemöller (Erasmus University Rotterdam) and Petr Kiryushin (Moscow State University)

The workshop outcomes include identification of gaps in Environmental Policy research, opportunities for co-supervision and joint research, training in academic communication and network-building for INTENSE PhD students, as well as a critical revision of the EU policy instruments and institutions that was circulated in a form of a policy brief to institutions and national public bodies.



European drivers for good landscape and biodiversity governance in Eastern Europe

Belarusian-Russian University, Mahilioŭ, Belarus, August 13-14, 2018

Workshop is co-organized by projects: Jean-Monnet **GRASS** - *EU governance of natural resources: geopolitics, regions and sectors*, the International Visegrad Foundation **NEXT** – *Nature-Based Solutions for Smart Cities*, Horizon 2020 **SMART-U-GREEN** - *Governing conflicting perspectives on transformations in the urban rural continuum*, CBHE Erasmus+ **INTENSE** – *Integrated Doctoral Program for Environmental Policy, Management and Technology*

Background notes

The aim of the workshops is to discuss the state of the art in the development of EU biodiversity policies, and their external dimension (intended and unintended) in the context of the countries of Eastern Neighbourhood (EaP) (especially Belarus) and Russia. We will primarily explore the conventions of the Council of Europe:

- **European Landscape (Florence) Convention** (*not ratified by Belarus and Russia*),
- **Berne Convention on the Conservation of European Wildlife and Natural Habitats.**

In addition, we are going to discuss the UNECE Convention on Access to Information, Public Participation in Decision-making and Access to Justice in Environmental Matters (**Aarhus Convention**), recognising its high potential for the promotion of good environmental governance.

We are going to explore, how the Conventions provide (or can provide in case of the Florence Convention) useful context for addressing the challenges faced by key stakeholder groups involved to biodiversity governance. We also take into account that the implementation of these conventions, as well as their potential to achieve the set targets is heavily contested by the stakeholders in Eastern Europe.

During the workshop we will examine, what are the challenges addressed (or expected to be addressed) by the Conventions, what are their perceived or expected impacts by various stakeholder groups, what agendas are persuaded, and how to make better use of the conventions and their institutions. We will also explore specific management and research tools promoted by the convention (e.g. mechanisms for the identification of Emerald network sites under the Berne Convention), and their relevance and utility in the Eastern European policy, management, physical planning and academic contexts.

In addition, we will discuss the **EU Research and Innovation Policy on Nature-Based Solutions** (NBS) (European Commission, 2015), as a potential driver for innovative development in the fields, and also will try to identify other policies and mechanisms the EU has in place and that can be used for the promotion of quality landscapes, biodiversity conservation targets and sustainable livelihoods in Eastern Europe. This discussion will be closely related with the discussion on the Conventions, and it will provide space for highly specific local issues from peri-urban and urban contexts from across Eastern and Central Europe.

The key outcome of the workshop is a critical analysis of the EU (and EU-promoted) institutions that will be summarised in a policy brief, and discussed in a research papers.



The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.



Schedule

Venue: Belarusian-Russian University, Building 1, room 323 (Mira Ave. 43)

August 13, 2018:

- 10.00 – registration and welcome coffee
- 11.00-11.30 – opening, welcoming addresses, introduction

Aarhus Convention for good landscape and biodiversity governance in Belarus, and its perspectives for Russia

co-chaired by Hanna Skryhan and Iryna Usava

- 11.30-12.10 – Keynotes on the Aarhus Convention (20 min per talk):
 - **Olga Zakharova** – Aarhus Convention in Belarus – implementation issues and perspectives
 - **Siarhei Mahonau** – Involvement of non-governmental sector to the Aarhus process and cooperation on Aarhus objectives for better environment
- 12.10-12.50 – Panel discussion on the mechanisms and outcomes of the Aarhus process for good landscape and biodiversity governance in Belarus and perspectives for Russia

Lunch break, 12.50-13.50

Florence Convention: mechanisms for good landscape and biodiversity governance in Belarus, Russia and Ukraine

co-chaired by Massimo Sargolini and Mária Bihuňová

- 13.50-14.50 – Keynotes on the Florence Convention (20 min per talk):
 - **Diana Pungar** – History and implementation context of Florence Convention
 - **Viktar Kireyeu, Olga Likhacheva and Nikolai Sobolev** – Options for Florence Convention in Belarus and Russia: opportunities and barriers
 - **Volodymir Rozhak** – Florence Convention in Ukraine – what works and what does not
- 14.50-15.20 – Panel discussion on the Florence mechanisms for good landscape and biodiversity governance in Belarus, Russia and Ukraine

Coffee break, 15.20-15.50

Berne Convention: mechanisms for good landscape and biodiversity governance in Belarus, Russia and Ukraine

co-chaired by Kalev Sepp and Viktar Kireyeu

- 15.50-16.50 – Keynotes on the Florence Convention (20 min per talk):
 - **Nikolai Sobolev** – Development of the Emerald network in Russia – coherence between Berne and national approaches and criteria
 - **Andrei Abramchuk, Marina Abramchuk** – Development of the Emerald network in Belarus – coherence between Berne and national approaches and criteria
 - **Alena Shushkova, Anna Sidorovich, Vladimir Ustin** – Directions and policy options for further development of National Ecological Network and System of Protected Areas (PA) in Belarus
- 16.50-17.20 – Panel discussion on the Berne mechanisms for good landscape and biodiversity governance in Belarus, Russia and Ukraine

Wrap-up session and conclusions

co-chaired by Kalev Sepp and Viktar Kireyeu

- 17.20-17.50 – Aarhus, Florence and Bern Conventions: what is their value for the EaP and Russia?

Workshop dinner, 18.30-21.00 (venue tbc)

August 14, 2018:

Nature-based solutions and smart cities: policy context, objectives and challenges

co-chaired by Attila Katona and Agnieszka Karczmarczyk

- 10.00-11.00 – talks on policy and conceptual foundations (30 min per talk):

- **Matthijs Hisschemöller** – Governing the transition to smart urban green
- **Kalev Sepp** – Nature-Based Solutions – policy and management objectives, approaches and tools

Coffee break, 11.00-11.30

- 11.30-12.00 – Panel discussion on science, management and policy of smart cities and NBS

Nature-based solutions for smart cities in Europe – an overview

co-chaired by Olga Likhacheva and Ilenia Pierantoni

- 12.00-13.20 – talks on lessons learned (20 min per talk):

- **Attila Katona** – NATURVATION project – results from across Europe and Urban Nature Atlas
- **Mária Bihuňová** – Development of green infrastructure and promotion of nature-based solutions in Slovakia – policy and management challenges
- **Agnieszka Karczmarczyk** – Development of green-blue networks and infrastructure in Polish cities – outcomes and lessons learned
- **Attila Katona** – Nature-Based Solutions in Hungary – an overview

Lunch break, 13.20-14.10

- 14.10-14.40 – Panel discussion on NBS and smart city development experiences around Europe

Governance of good urban and peri-urban landscapes – policy context in the EaP and Russia

co-chaired by Matthijs Hisschemöller and Iryna Usava

- 14.40-15.40 – talks on policy and management contexts and objectives (20 min per talk):

- **Elena Pavlova** - National planning & urban development policy objectives, smart cities and nature-based solutions in Belarus
- **Nikolai Bobylev** – Nature-based solutions and smart cities for Russia – policy context and options
- **Petr Kiryushin** – Universities as drivers for development of sustainable & smart cities: opportunities for Russia's and international perspectives

Coffee break, 15.40-16.10

- 16.10-16.40 – panel discussion on options for NBS and smart cities in the EaP and Russia

Wrap-up session and conclusions

co-chaired by Matthijs Hisschemöller, Attila Katona and Nikolai Bobylev







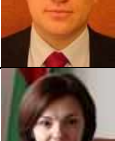


- 16.40-17.10 – European drivers for good landscape and biodiversity governance in Eastern Europe













Meeting of the editorial group













co-chaired by Anton Shkaruba and Kalev Sepp










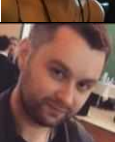


- 17.10-18.00 – Discussions of policy conclusions and recommendations; perspectives of a scholarly paper

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- Dr. Olga Likhacheva, Pskov State University (Russia) – *workshop co-chair*
- Prof. Kalev Sepp, Estonian University of Life Sciences (Estonia) – *workshop co-chair*
- Dr. Iryna Shylava, Belarusian-Russian University (Belarus) – *workshop technical coordinator*
- Dr. Anton Shkaruba, Estonian University of Life Sciences (Estonia) and Hungarian Climate Alliance (Hungary) – *workshop academic coordinator*
- Dr. Hanna Skryhan, Belarusian-Russian University (Belarus) – *workshop co-chair*

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Erasmus+

GRASS – EU governance of natural resources: geopolitics, regions and sectors (587697-EPP-1-2017-1-RUEPPJMO-PROJECT)

Pskov State University (RU)

Erda Research, Technology, Education (NL)

Central European University (HU)

<http://grass.pskgu.ru/>

Estonian University of Life Sciences (EE)

NGO Ekapraekt (BY)

RZ. Research. Management. Communication (SE)



NEXT – Nature-Based Solutions for Smart Cities (*the project of the International Visegrad Foundation*)

Belarusian-Russian University (RU)

Warsaw University of Life Sciences (PL)

Czech University of Life Sciences Prague (CZ)

<http://en.bru.by/content/departments/internationaldepartment/next>

Slovak University of Agriculture (SK)

Hungarian Climate Alliance (HU)

NGO "EKAPRAEKT" (BY)



SMART-U-GREEN - Governing conflicting perspectives on transformations in the urban rural continuum

DRIFT Erasmus University Rotterdam (NL)

SAAD University of Camerino (IT)

IATEUR IRCS Université de Reims (FR)

Regio Drechtsteden (NL)

Marche Region (IT)

Reims Métropole (FR)

<https://ipi-urbaneurope.eu/project/smart-u-green/>

University of Zagreb (HR)

Pskov State University (RU)

NGO EKAPRAEKT (BY)

CIVILSCAPE (DE)

School of Environmental Design and Rural

Development University of Guelph (CA)



Erasmus+

INTENSE – Integrated Doctoral Program for Environmental Policy, Management and Technology (586471-EPP-1-2017-1-EE-EPPKA2-CBHE-JP)

Estonian University of Life Sciences (EE)

University of Natural Resources and Life Sciences (AT)

University of Latvia (LV)

Odessa State Environmental University (UA)

Institute of Ecology of the Carpathians NAS of

Ukraine (UA)

<http://intense.network>

V.N. Karazin Kharkiv National University (UA)

National University of Mongolia (MN)

Khovd University (MN)

Hanoi University of Science and Technology (VN)

Ho Chi Minh City University of Natural Resources and Environment (VN)

State Institution of Higher Professional Education
«Belarusian-Russian University»



CERTIFICATE

This certificate confirms that

John Johnson

has successfully completed the following course

«Nature-Based Solutions for Smart Cities»

from August 15 to 26, 2018

this a school co-organised under the International Visegrad Foundation project NEXT,
Erasmus+ CBHE action INTENSE, and JPI Urban Europe action Smart-U-Green,
German Academic Exchange Service DAAD

Rector of University, professor



Ihar Sazonau



Co-funded by the
Erasmus+ Programme
of the European Union



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Ministry of Education and Science of the Russian Federation

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Transcript of Records

This is to certify that

John Johnson

Born on **01.01.1989** (passport no. **11 №1111111**)

Has spent a training period at Belarusian-Russian University (www.bru.by, also known in national languages as “Белорусско-Российский университет”; License of the Ministry of Education of the Republic of Belarus for the right to conduct educational activities no. 02100/440 of April 30, 2004; License of the Federal Service for Supervision in Education and Science of the Russian Federation for the implementation of educational activities no. 0963 of March 28, 2014) situated in the city of Mogilev, Republic of Belarus.

The summer school “Nature-Based Solutions for Smart Cities” was held during the period **from August 15 to 26, 2018** on the basis of Rector’s order No. 336 of August 14, 2018

On the academic year 2017/18

And is awarded **3.5 ECTS** with the grade “**passed**”

The total number of in-class academic hours is 88 (including field research under direct supervision of school faculty); in addition this includes 38 hours for reading, work on the pre-school assignment and preparation of final reports) based on the successful completion of all the course requirements (such as attendance of scheduled course components, sufficiently active participation in course work, sufficient contribution to the final group report).

In the Belarusian educational system the courses are graded either according to the scale from 1 (or completely failed to fulfill course requirements) to 10 (course requirements completely fulfilled, and in addition familiarisation with literature or data beyond those required by course requirements has been demonstrated), or on the scale “passed or failed”.

___ out of 43 course participants has passed the course

Done in the city of Mogilev on August 26, 2018

Rector of University, professor



Ihar Sazonau

Report for NEXT Summer School Feedback Form

Response Counts

Completion Rate:	100%		
	Complete		22

Totals: 22

1. Overall evaluation

	Fully agree	Mostly agree	Mostly disagree	Strongly disagree	Responses
I had sufficient information about the aims and content of the course. Row %	50.0%	50.0%	0.0%	0.0%	22
The pre-course materials were relevant and useful. Row %	50.0%	36.4%	13.6%	0.0%	22
The duration of the course was about right, neither too long, nor too short. Row %	54.5%	22.7%	18.2%	4.5%	22
The level of the course was right for me, neither too advanced, nor too basic (including the group project). Row %	77.3%	18.2%	4.5%	0.0%	22
The course was scheduled appropriately (allowed time for depth in topics covered). Row %	36.4%	36.4%	18.2%	9.1%	22
The classroom atmosphere was conducive to learning. Row %	45.5%	31.8%	22.7%	0.0%	22
The course employed a variety of teaching and learning activities. Row %	63.6%	22.7%	9.1%	4.5%	22
The course was useful for my research/professional development. Row %	59.1%	31.8%	9.1%	0.0%	22
Overall, I was satisfied with the course. Row %	68.2%	27.3%	4.5%	0.0%	22
Totals Total Responses					22

2. Instructor evaluation 1/2 - Instructor demonstrates that she/he knows the subject and topic she/he talks about and is prepared for the classes. Instructor was inspiring, and presents subject matter in ways that are intellectually challenging and interesting to me. If you didn't participate in his/her class, you can leave it empty.

	Fully agree	Mostly agree	Mostly disagree	Strongly disagree	Responses
Dr. Anton Shkaruba Row %	77.3%	18.2%	4.5%	0.0%	22
Attila Katona Row %	77.3%	22.7%	0.0%	0.0%	22
Dr. Matthijs Hisschemöller Row %	66.7%	33.3%	0.0%	0.0%	21
Dr. Viktor Kireyeu Row %	63.6%	31.8%	4.5%	0.0%	22
Dr. Hanna Skryhan Row %	83.3%	11.1%	5.6%	0.0%	18
Prof. Kalev Sepp Row %	66.7%	22.2%	11.1%	0.0%	18
Dr. Daniele La Rosa Row %	50.0%	45.0%	5.0%	0.0%	20
Dr. Agnieszka Karczmarczyk Row %	50.0%	35.7%	14.3%	0.0%	14
Prof. Massimo Sargolini Row %	35.3%	52.9%	11.8%	0.0%	17
Dr. Ilenia Pierantoni Row %	53.3%	33.3%	13.3%	0.0%	15
Anders Oscar Persson Row %	56.3%	37.5%	6.3%	0.0%	16
Dr. Federico Morelli Row %	60.0%	26.7%	13.3%	0.0%	15
Dr. Yanina Benedetti Row %	63.6%	27.3%	9.1%	0.0%	11
Totals Total Responses					22