



30 October - 31 October 2025

University of Eastern Finland | Snellmania-building, Yliopistonranta 8 | Kuopio, Finland

5th International Conference for Sustainable Resource Society

Environmental monitoring and impact assessment

Conference booklet



ICS25

INTERNATIONAL CONFERENCE ^{FOR}
SUSTAINABLE RESOURCE SOCIETY



UNIVERSITY
OF EASTERN
FINLAND

UEF  **RESOURCE**
RESEARCH COMMUNITY

UEF  **FOBI**
FORESTS AND BIOECONOMY

UEF  **WATER**

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CONFERENCE PROGRAMME

(for any updates, please visit: [ICS25 website](#))

CONFERENCE DAY 1: Thursday, October 30

TIME (Finnish time, GMT+2)	ACTIVITY	PROGRAMME	ROOM
9:00-10:00	Registration	Badge and general information	2nd floor Lobby
10:00-11:00	Plenary I	Welcome to the conference Plenary I	SN100
11:00-12:00	Lunch break		
12:00-13:40	Parallel sessions I	SESSION 1. Carbon capture, sequestration and utilization. KEYNOTE SESSION 2. Circular Economy Ecosystems. SESSION 3. Circular Economy Perspectives on Entrepreneurship. SESSION 4. Forests and Bioeconomy. SESSION 10. Monitoring, Mitigating, and Reimagining Water Resources. SESSION 11. Ecological and evolutionary sustainability in freshwater environments.	SN201 SN203 SN204 SN205 SN300 SN100
14:00-15:40	Parallel sessions II	SESSION 5. N₂O emissions across ecosystems. SESSION 6. Climate change, air pollution and green transition. SESSION 7. Energy Transition in Circular Economy. SESSION 8. Organizational Perspectives on Sustainable Circular Economy. SESSION 9. Narratives and Engagement in Sustainability Transitions.	SN200 SN201 SN203 SN204 SN205

		SESSION 10. Monitoring, Mitigating, and Reimagining Water Resources. SESSION 11. Ecological and evolutionary sustainability in freshwater environments.	SN300 SN100
16:00-18:00	Poster Session		2nd floor lobby
19:00-22:00	Conference dinner for registered participants		Original Sokos Hotel Puijonsarvi, Minna Canthin katu 16

CONFERENCE DAY 2: Friday, October 31

TIME (Finnish time, GMT+2)	ACTIVITY	PROGRAMME	ROOM
10:00-11:00	Plenary II	Welcome words Plenary II	SN100
11:00-12:00	Lunch break		
12:00-13:40	Parallel sessions II	SESSION 12. Circularity & novel technologies. SESSION 13. Carbon capture, sequestration and utilization. SESSION 14. Urban Sustainability and Circular Innovation. SESSION 15. Policy, Packaging and Activism in Circular Transitions. SESSION 16. Micro-Transitions and Human Perspectives on Sustainability Transformation.	SN200 SN201 SN203 SN204 SN205
14:00-16:00	Labotary tours		2 nd floor lobby

LIST OF SESSIONS & TEAMS LINKS

Thursday, October 30, 2025

Parallel sessions 1, 12:00-13:40

SESSION 1. *Carbon capture, sequestration and utilization* (Chair: Anna Lähde | SN201) [Join now](#)

SESSION 2. *Circular Economy Ecosystems.* (Chair: Nuppu Mielonen | SN203) [Join now](#)

SESSION 3. *Circular Economy Perspectives on Entrepreneurship.* (Chair: Natalia Yakovleva | SN204) [Join now](#)

SESSION 4. *Forests and Bioeconomy.* (Chair: Jouni Pykäläinen | SN205) [Join now](#)

Parallel sessions 2, 14:00-15:40

SESSION 5. *N₂O emissions across ecosystems.* (Chair: Lukas Kohl, Carlos Palacin Lizarbe | SN200) [Join now](#)

SESSION 6. *Climate change, air pollution and green transition.* (Chair: Olli Sippula | SN201) [Join now](#)

SESSION 7. *Energy Transition in Circular Economy.* (Chair: Tuulia Puustinen | SN203) [Join now](#)

SESSION 8. *Organizational Perspectives on Sustainable Circular Economy.* (Chair: Ida Parkkinen | SN204) [Join now](#)

SESSION 9. *Narratives and Engagement in Sustainability Transitions.* (Chair: Tiina Jääskeläinen | SN205) [Join now](#)

WATER sessions 12:00-15:30

SESSION 10. *Monitoring, Mitigating, and Reimagining Water Resources.* (Chair: Merve Atasoy & Victor Carrasco Navarro | SN300) [Join now](#)

SESSION 11. *Ecological and evolutionary sustainability in freshwater environments.* (Chair: Anssi Vainikka | SN100) [Join now](#)

Friday, October 31, 2025

Parallel sessions 3, 12:00-13:40

SESSION 12. *Circularity & novel technologies.* (Chair: Kirill Murashko | SN200) [Join now](#)

SESSION 13. *Carbon capture, sequestration and utilization.* (Chair: Anna Lähde | SN201) [Join now](#)

SESSION 14. *Urban Sustainability and Circular Innovation.* (Chair: Silvia Dewi Sagita Andik | SN203) [Join now](#)

SESSION 15. *Policy, Packaging and Activism in Circular Transitions.* (Chair: Subhanjan Sengupta | SN204) [Join now](#)

SESSION 16. *Micro-Transitions and Human Perspectives on Sustainability Transformation.* (Chair: Henna Konu & Hanna Lehtimäki | SN205) [Join now](#)

PLENARY SPEAKERS AND PRESENTERS

CONFERENCE DAY 1: Plenary I, 10:00-11:00 [Join now](#)

Welcome to the conference: Professor Anna Lähde

Plenary: Eeva-Stiina Tuittila, Deputy Head of School of Forest Sciences at UEF

CONFERENCE DAY 2: Plenary II, 10:00-11:00 [Join now](#)

Closing words

Plenary: Seppo Tossavainen, Head of Economic & International Affairs in the City of Joensuu

MEET OUR PLENARY SPEAKERS:

Eeva-Stiina Tuittila

Eeva-Stiina Tuittila is as a professor of Forest Soil Science and Deputy Head at UEF School of Forest Sciences. She has strong background in plant and ecosystem ecology linking vegetation and microbial diversity and processes to soil carbon dynamics and greenhouse gas emissions. Major research questions are related to the peatland ecosystems, how they adapt and feedback to global change (climate change, changing management, restoration). Additionally, she is also interested how the ongoing change in humans' relationship to nature is impacting ecosystems and how it feeds back to humans.



Seppo Tossavainen



Seppo Tossavainen is expert in international business with over 30 years of experience in exports, growth strategies, innovation ecosystems, and public-private partnerships. Currently, Seppo serves as the Head of Economic and International Affairs for the City of Joensuu. He has founded five companies, completed two successful exits, and held several executive positions both in Finland and abroad. Seppo's core expertise lies in the circular economy, bioeconomy, and cleantech, through which he has built global distribution networks in 25 countries. He established Business Finland's Canadian office in Toronto and led the North American bio- and circular economy Team Finland team. He holds Master of Science and MBA degrees in international business, as well as a Certified Board Member qualification.

Thursday, October 30, 2025

Parallel sessions 1, 12:00-13:40

SESSION 1. Carbon capture, sequestration and utilization (Chair: Anna Lähde | Snellmania, SN201)
[Join now](#)

1. **KEYNOTE** Prof. Unni Olsby, Prof. Farid Akhtar, assoc. prof. Andreas Kaiser, **CCU-NET keynote discussion.**
2. Shujie You, Heena Dhavan, **2D carbon Additives for Low-Carbon Concrete: Sustainable Construction and Circular Economy Solutions.**
3. Praveen Wilson, Farid Akhtar, **Free-standing, hierarchical activated carbon granules for CO₂ capture**

SESSION 2. Circular Economy Ecosystems. (Chair: Nuppu Mielonen | Snellmania, SN203) [Join now](#)

1. Sini-Tuulia Suokas, Kaisa Henttonen, Ville-Veikko Piispanen (University of Eastern Finland), **Customer value creation in digital circular platforms - ecosystems perspective.**
2. Kaisa Henttonen, (University of Eastern Finland), Maria Hakkarainen, (University of Lapland), Salla Jutila, (University of Lapland), Jenna Päläs, (University of Eastern Finland). **Stakeholder perspectives on short-term rentals in the sharing economy: A media-based analysis from Finland.**
3. Muhammad Zeshan Razzaq, Kaisa Henttonen, Ville-Veikko Piispanen (University of Eastern Finland), **Smart circular economy – systematic literature review on the role of digital technologies in circular product management in large organisations.**
4. Kristina Leppälä, Ville-Veikko Piispanen, Hanna Lehtimäki (University of Eastern Finland), **Building circular plastic ecosystems: Collaboration dynamics and strategic specialization.**
5. Nuppu Mielonen, Hanna Lehtimäki (University of Eastern Finland), **Sustainable value creation in industrial ecosystems.**

SESSION 3. Circular Economy Perspectives on Entrepreneurship. (Chair: Natalia Yakovleva | Snellmania, SN204) [Join now](#)

1. Subhanjan Sengupta, Hanna Lehtimäki (University of Eastern Finland), **Creating a social-circular paradigm through sustainability-driven entrepreneurship.**
2. Juha Kinnunen, Hanna Lehtimäki, Kristina Leppälä, Ida Parkkinen (University of Eastern Finland), **Entrepreneurial resilience in a phasing-out industry: Survival strategies of Finnish peat entrepreneurs in systemic transition.**
3. Lauri Kurkela, (University of Eastern Finland), **Value-focused thinking for circular economy transitions: A case study of the stakeholder values.**
4. Tarlan Ahmadov, (Eastern University of Finland & Finnish Environment Institute), M. Nguyen Quang, (University of Valencia), **Strategic drivers and adaptive capacity in open innovation: Evidence from Vietnamese manufacturing SMEs.**

SESSION 4. Forests and Bioeconomy. (Chair: Jouni Pykäläinen | Snellmania, SN205) [Join now](#)

1. Samuli Pitzén, **Promoting climate policy integration in privately owned forests: How to foster policy acceptance?**
2. Mirkka Rovamo, **Towards Strongly Sustainable Business Model: A Systematic Scoping Literature Review.**

3. Sami Huuskonen, **Reducing greenhouse gas emissions with heavy-duty liquefied biogas (LBG)-powered vehicles in long-distance road transportation of forestry products.**
4. Yang Xu, **Identifying Undelayed Emission Reduction Potential from Fuelwood Use.**
5. Danish Mustafa khan, Earth Warriorz, Zunaira Iqbal, **Leveraging Open-Source Data and AI for Soil Health Assessment and Sustainable Agriculture.**

Parallel sessions 2, 14:00-15:40

SESSION 5. *N₂O emissions across ecosystems.* (Chair: Lukas Kohl, Carlos Palacin Lizarbe | Snellmania, SN200) [Join now](#)

1. Karuna Rao, Markku Koskinen, Annalea Lohila, Alexander Buzacott, Mika Korkiakoski, Henriikka Vekuri, Tatu Polvinen, Mari Pihlatie, **Seasonal and Temporal Variability of Nitrous Oxide Emissions in a Clay Loam Agricultural Soil.**
2. Kenneth Scheel, Aku Ursin, Damien Weidmann, **Quantification of dynamic nitrous oxide emissions post-fertilization using laser dispersion tomography.**
3. Sanni Semberg, Hem Raj Bhattarai, Petra Manninen, Yuan Li, Narasinha Shurpali, Perttu Virkajärvi, **Timing of grass renewal regulates nitrous oxide emissions from a drained boreal peatland.**
4. Pauliina Turunen, Markku Koskinen, Asko Simojoki, Kristiina Karhu, Mari Pihlatie, **Drought effects on nitrogen cycling and N₂O emissions under different cover crops in a controlled experiment.**
5. Maarit Liimatainen, **Luke Ruukki infrastructure – Water Management Innovation Living Lab.**

SESSION 6. *Climate change, air pollution and green transition.* (Chair: Olli Sippula | Snellmania, SN201) [Join now](#)

1. Niklas Löther, **Obstacles to Integrated Governance of Climate Change and Air Pollution in the EU: The Neglected Vertical Dimension.**
2. Henna Rinta-Kiikka, Juho Louhisalmi, Antti Karjalainen, Antti Väisänen, Marko Hyttinen, Narayan Dhital, Rejina Maskey Byanju, Sunil Prasad Lohani, Jarkko Tissari, **Emissions and indoor air pollution from cookstoves: insights from rural Nepal and controlled laboratory studies.**
3. Muhammad Hamza Zaman, Onni Ovaskainen, Olli Sippula, Jarkko Tissari, **A Detailed assessment of catalytic reduction of organic emissions from a wood stove using PTR-ToF-MS.**
4. Janna Attari, Elisabet Afonso, Anastasiia Karabanova, Jyoti Shanker Pandey, Farid Akhtar, Andreas Kaiser, **Electrospun SrCl₂-carbon nanofiber composites for safe and efficient ammonia-based energy storage.**
5. Marina Ciurans-Oset, Johanne Mouzon, Farid Akhtar, **Novel compositionally complex alloys to increase the safety during transportation and storage of pressurized hydrogen.**

SESSION 7. *Energy Transition in Circular Economy.* (Chair: Tuulia Puustinen | Snellmania, SN203) [Join now](#)

1. Veera Kankare (University of Eastern Finland), **Litigating a just transition: Legal disputes over wind energy in Finland.**
2. Emma Merikanto, (University of Eastern Finland), **The historical development of energy efficiency in EU law and the emergence of energy efficiency first principle.**

3. Farid Karimi, Tapio Litmanen, (University of Jyväskylä), **EU decarbonization in times of crises: an overview of multilevel governance gaps for an equitable twin transition.**
4. Tapio Litmanen, (University of Jyväskylä), Matti Kojo (LUT University), Markku Lehtonen (Pompeu Fabra University, Spain), **Geological knowledge, institutions and materiality in the construction of the promise of safe geological disposal of spent nuclear fuel.**
5. Olga Kalchenko (University of Eastern Finland), **System dynamics for circular economy: Critical raw materials in the energy transition.**
6. Tuulia Puustinen, Rauno Sairinen, Samu Salonen, (University of Eastern Finland), **Perspectives on land use governance of utility-scale solar power development in Finland.**

SESSION 8. Organizational Perspectives on Sustainable Circular Economy. (Chair: Ida Parkkinen | Snellmania, SN204) [Join now](#)

1. Kang Li, Esa Hiltunen, (University of Eastern Finland), Riikka Holopainen, (University of Jyväskylä), **CEO's education and ESG performance in European firms: The Role of Firms' Bankruptcy Risk.**
2. Rachel Greer, (CircularFlow), **From optimization to transformation: Operationalizing circular decisions with the CDMT.**
3. Krista Leppänen (University of Eastern Finland), **Sustainability reporting and strategic sustainability: Connecting information, management, and decision-making in the Nordic context.**
4. Heta Leinonen, (Tampere University), **Stakeholder engagement: From a growth-focused to a sufficiency-focused paradigm.**
5. Ida Parkkinen, Kristina Leppälä, Hanna Lehtimäki, (University of Eastern Finland), Tojo Thatchenkery, (Schar School of Policy and Government, George Mason University, USA), **Sustainability leadership in the circular economy transformation.**

SESSION 9. Narratives and Engagement in Sustainability Transitions. (Chair: Tiina Jääskeläinen | Snellmania, SN205) [Join now](#)

1. Devanshi Mehra, (Indian Institute of Foreign Trade), Ashish Gupta, (South Asian University), Anushree Tandon, (University of Eastern Finland), **Sustainability or a trend? How sustainable influencers shape responsible communities.**
2. Jyri Hoffren, Jani Holopainen, Marianna Halinen, Tommi Laukkanen, (University of Eastern Finland), **Choosing green: The divergent roles of cognitive and emotional product involvement in shaping green sacrifice.**
3. Oskari Ylikoski, Elina Oksanen, Tiina Ynnilä (University of Eastern Finland), **Building Networks for Nature-based Solutions: The UEF Living Lab.**
4. Irmeli Mustalahti, Tiina Jääskeläinen, (University of Eastern Finland), Amanuel Athuman, (University of Eastern Finland, College of Business Education Tanzania, CBE), Ubaldus Tumaini, (College of Business Education Tanzania), **Intergenerational knowledge sharing and recognition of young people in biodiversity conservation: lessons from M&B reserves in Finland and Tanzania.**

WATER sessions 12:00-15:30

SESSION 10. Monitoring, Mitigating, and Reimagining Water Resources. (Chair: Merve Atasoy & Victor Carrasco Navarro | *Snellmania, SN300*) [Join now](#)

1. Augustine-Moses Gbagir, Miguel Villoslada, Alfred Colpaert (University of Eastern Finland), **An integrated multi-sensor remote sensing approach to characterize the trend of chlorophyll-a concentration in Lake Pyhäselkä, North Karelia, Finland.**
2. Shahbaz Baig, Osman Torunoglu (Savonia University of Applied Sciences), **Real-Time Computer Vision Based Flood and Puddle Detection in Urban Areas.**
3. Zunaira Iqbal, Earth Warriroz, Hira Malik (Estonian Business School), **Enhancing Soil Health with Algae-Based Biofertilizers and Seagrass-Derived Amendments.**
4. Joshua Izegaegbe, Sidra Iftekhar, Joakim Riikonen, Jarkko Akkanen, Vesa-Pekka Lehto (University of Eastern Finland), **A novel approach to on-site analysis of metal contamination in sediments using portable X-ray fluorescence.**
5. Jenna Senecal (Sanitation360 AB), **Kissamajas: Managing peak loading at wastewater treatment plants**
6. Muhammad Tanveer, Nabin Subedi, Anna Lähde (University of Eastern Finland), **One step aerosol synthesis of Ag doped TiO₂ for photocatalytic degradation of Salicylic acid in aqueous environment.**
7. Niteesh Pokharel (Tribhuvan University), Surendra K. Pradhan (University of Eastern Finland), **Influence of COD and Temperature on E. coli Contamination in Kathmandu Valley Ponds: Public Health and Environmental Concerns.**
8. Victor Carrasco-Navarro (University of Eastern Finland), Ahlam Mohamed Benhammou (National Distance Education University, UNED), Jussi Kukkonen (University of Eastern Finland), Jose Luis Martinez-Guitarte (National Distance Education University, UNED), **Behavioural and Developmental Effects of Tire Rubber Leachates on the freshwater snail *Physella acuta*.**

SESSION 11. Ecological and evolutionary sustainability in freshwater environments. (Chair: Anssi Vainikka | *Snellmania, SN100*) [Join now](#)

1. Opening remarks – Anssi Vainikka (University of Eastern Finland).
2. Keynote - Christian Skov (National Institute of Aquatic Resources, Denmark): **Citizen science and management of recreational fisheries: Challenges and opportunities.**
3. Keynote - Tuomas Leinonen (Natural Resources Institute Finland): **Genetics in fisheries management.**
4. Samuel Blyth, Patrik Rönnbäck, Lotte van den Heuvel, Emma Björkvik (Uppsala University): **Responsibility for a changing future – Anglers' perspectives on 10 key themes related to sustainable recreational fisheries management in Sweden.**
5. Seble Hailemariam (University of Oulu), Pauliina Louhi (Natural Resources Institute Finland), Raisa Nikula (Natural Resources Institute Finland), Mulubirhan Tekle (University of Oulu), Ali Torabi Haghighi (University of Oulu), Hannu Marttila (University of Oulu), Atso Romakkaniemi (Natural Resources Institute Finland), **Thermal refuges and habitat complexity support brown trout resilience in boreal river restoration.**
6. Nico Alioravainen (Natural Resources Institute Finland): **Lessons from Lake Inari: Challenging the Sustainability of Stocking Practices.**
7. Aatu Turunen (University of Eastern Finland), Joni Tiainen (Natural Resources Institute Finland), Mikko Olin (Natural Resources Institute Finland), Anssi Vainikka (University of Eastern Finland):

Angling standard for collecting population data of the northern pike (*Esox lucius*) in small boreal lakes.

8. Million Tesfaye (Biology Centre of the Czech Academy of Sciences), Allan Z. Souza (University of Helsinki), Jan Kubecka (Biology Centre of the Czech Academy of Sciences), Mikko Olin (Natural Resources Institute Finland): **Disentangling the Drivers of Perch Growth: Environmental and Biological Controls in the Archipelago Sea.**
9. Samuel Blyth, Patrik Rönnbäck, Lotte van den Heuvel: **Spending for Salmon and Sea Trout: Examining angler expenses, perceptions, and support for fisheries management.**

Friday, October 31, 2025

Parallel sessions 3, 12:00-13:40

SESSION 12. *Circularity & novel technologies.* (Chair: Kirill Murashko | Snellmania, SN200) [Join now](#)

1. Heena Dhawan, Farid Akhtar, **From Waste to Resource: Unlocking the Circular Potential of EAF Slags in Sweden's Fossil-Free Steel Journey.**
2. Kirill Murashko, Anna Lähde, Dmytro Donskyi, Pasi Yli-Pirila, **Catalytic Pressurized Pyrolysis of Plastics: A Circulatory Pathway to Graphite Precursors for Li-Ion Batteries.**
3. Kennedy Chifundo Adamson, **Mining for Resilience: Exploring the role of artisanal and small-scale mining in climate change adaptation in rural Malawi.**
4. Pius Kairigo, Roosa-Maria Liimatainen, Anniina Kiesilä, Elina Kalenius, **Untargeted profiling of organic valuables from industrial side-streams and paludicultured crops using UHPLC-orbitrap-MS and GC-MS.**
5. Andrei Beliaev, Igor O. Koshevoy, Eetu Hakkarainen, **Sustainable ionic luminophores of group 15 for optronics.**

SESSION 13. *Carbon capture, sequestration and utilization.* (Chair: Anna Lähde | Snellmania, SN201) [Join now](#)

1. Xiaoxiong Fan, Ladawan Pukdeejorhor, Farid Akhtar, Andreas Kaiser, **Enhanced Effective Thermal Conductivity for CO₂ Adsorption by Building Carbon/Zelite Composites.**
2. Lisbania Velarde Arnez, Praveen Wilson, Farid Akhtar, **Zeolite NaX and NaA granules by high-shear wet granulation as adsorbents for CO₂ capture.**
3. Pauliina Nevalainen, Niko Kinnunen, Miika Kortelainen, Anna Lähde, Olli Sippula, **Powder and pellet form 13X zeolite adsorbent in a temperature swing CO₂ adsorption – a wide temperature range study.**
4. Piyush Singh, **Cost-Effective Ultramicroporous MOFs for Energy-Efficient CO₂ Capture at Low Partial Pressures.**
5. Ken Luca Abel, **CO₂ hydrogenation to CO, methanol and ethanol using Cu- and Rh-exchanged UiO-66 metal-organic framework catalysts.**

SESSION 14. *Urban Sustainability and Circular Innovation.* (Chair: Silvia Dewi Sagita Andik | Snellmania, SN203) [Join now](#)

1. Kolade Otokiti, (University of Groningen, the Netherlands), Helen Faturoti, (Lagos State University, Nigeria), Paul Onibaba, (University of Ibadan, Nigeria), Tolulope Adededeji, (University of Ibadan, Nigeria), **Planning for cool cities: The intersection of urban greening, planning standards and heat risk reduction.**

2. Naila Azhar, (Hong Kong University of Science and Technology), Benjamin Steuer, (Hong Kong University of Science and Technology), **Investigation the circular business innovation transformation in Pakistan's textile enterprises.**
3. Silvia Dewi Sagita Andik, Joanna Rakowska, (Warsaw University of Life Sciences), **Food waste of young family in urban area (a case study in Indonesia).**
4. Nirupama M P, Radhika.Bhati, Deepanshu Aggarwal, Shivanshu Mishra, Shreyansh Sharma (BML Munjal University, India), **Air pollution and Alzheimer's disease: Enhancing elderly care with assistive solutions.**

SESSION 15. Policy, Packaging and Activism in Circular Transitions. (Chair: Subhanjan Sengupta | Snellmania, SN204) [Join now](#)

1. Grégory De Boe, Valérie Swaen, Marie Lamensch, (Université catholique de Louvain – LOURIM), **How do plastic packaging taxes and regulations foster circularity in the food packaging industry? A policy mix perspective.**
2. Emma Nykänen, (Tampere University), Martiina Salokangas, (University of Turku), Leena Aarikka-Stenroos, (Tampere University), Elina Jaakkola, (University of Turku), **How consumers experience sustainable packaging: From dimensions to tensions.**
3. Atalay Yavan, (Jyväskylä University), **Strategic moves in climate-oriented shareholder activism: A decade of engagement with U.S. oil and gas firms (2013–2022).**
4. Kiira Parikka, (Lappeenranta-Lahti University of Technology), **Libidinal desire within stakeholder engagement: The case of the Sokli mine development in Savukoski, Finland.**

SESSION 16. Micro-Transitions and Human Perspectives on Sustainability Transformation. (Chair: Henna Konu & Hanna Lehtimäki | Snellmania, SN205) [Join now](#)

1. Kolade Victor Otokiti (University of Leeds), Lummina Horlings (University of Groningen), Thanasis Kizos (University of Aegean), **Grassroots innovation in Mauritius: Understanding Limitations and Opportunities for Transformative Impact.**
2. Vili Virkki (University of Eastern Finland), Lauren Seaby Andersen (Potsdam Institute for Climate Impact Research), Sofie te Wierik (Potsdam Institute for Climate Impact Research), Miina Porkka (University of Eastern Finland), Dieter Gerten (Potsdam Institute for Climate Impact Research), **Regionally divergent drivers behind transgressions of the freshwater change planetary boundary.**
3. Esko Sorakunnas (University of Turku), Pinja Leino (University of Eastern Finland), Juulia Räikkönen (University of Turku), Henna Konu (University of Eastern Finland), **First positive steps: Emerging biodiversity handprints in the Finnish tourism sector.**
4. Shahid Mallick (University of Eastern Finland), **Water struggles: Water ethnography of a coastal village in southwestern Bangladesh.**
5. Juho Pesonen, Jarno Suni (University of Eastern Finland), **Optimizing Sustainable Tourism Through Trip Duration Analysis: Representative Study of International Tourists to Finland.**

MULTIDISCIPLINARY POSTER SESSION (Snellmania, 2nd floor Lobby)

Posters will be available for viewing throughout the conference. Attendees are encouraged to explore the posters during breaks, lunch sessions, or at their convenience.

1. Surendra Pradhan, University of Eastern Finland, **Challenges to the nutrient recycling business and solutions.**
2. Esmail Tavakolnia, **Towards Social Sustainability: Addressing Deficiencies in the Coffee Supply Chain.**
3. Aitana Zoco, Department of Chemistry and Sustainable Technology, UEF, **Tree bark valorisation for bioactive extracts against wood-decaying fungi and viruses.**
4. Mojgan Taheri, University of Eastern Finland, **Morphology-Controlled Iron Sulfate Catalysts for Biomass Graphitization.**
5. Kimmo Laitinen, University of Eastern Finland, Department of Technical Physics, **Bio-based phenols utilized in 3D printed polymer composites and coatings.**
6. Himanshu Singh Maurya, Lulea University of Technology, **Ultrasonic Surface Modification as a Potential Approach to Counter Hydrogen Embrittlement in Stainless Steel.**
7. Jannat Ara Rahman, **Addressing Finnish Educators' Eco-anxiety in Secondary Education Level.**
8. Satish Basnet, uef; Anna Lähde, uef, **Performance Assessment of Electrostatic Precipitators for Radioactive Aerosol Mitigation during Severe Accident Scenario.**
9. Sanna Tyni, Oulu University of Applied Sciences, **Biochar – strategic potential for landowners to enhance crop productivity and support carbon sequestration.**
10. Juho Louhisalmi, University of Eastern Finland, **Particulate Matter Measurement in Residential Wood Combustion: Method Comparison and Introduction of a Novel Approach.**
11. Onni Ovaskainen, UEF **Statistical Analysis of Emissions from Residential Wood Heating Appliances: Insights from a Large Dataset of Modern Masonry Heaters.**
12. Outi Kurri, University of Eastern Finland, **Modelling CO₂ production rates in forest soil with stable isotope ratios.**
13. Nicola Kokkonen, **N₂O emissions increase after prescribed burning in a dry Scots pine forest.**
14. Saana Hakkola, University of Helsinki/Faculty of Agriculture and Forestry, **Fire-driven changes in nitrous oxide fluxes from managed and natural peatlands.**
15. Jonna Teikari, **Metagenomic insights into the nitrogen cycle and N₂O emission potential of northern agricultural soil.**
16. Oona Norvapalo, UEF, Fine Particle and Aerosol Technology Laboratory, **Occupational exposure assessment using miniaturized aerosol instruments in different workplace environments.**
17. Mari Pihlatie, University of Helsinki, **N₂O-Predict: Predicting episodic N₂O emissions from northern agricultural soils.**
18. Anuliina Putkinen, University of Helsinki, **N₂O and CH₄ cycling within the canopies of tropical trees in the Peruvian Amazon wetlands.**
19. Lukas Kohl, University of Eastern Finland, **Freeze-thaw cycles stimulate N₂O production and shift N₂O production pathways in two boreal agricultural soils.**
20. Oksana Skaldina, University of Eastern Finland, **Effects of traffic-related air pollution on pollinator communities associated with keystone boreal plant *Angelica sylvestris*.**
21. Tadesse Abebaw Mengistie, **Designing Ce-Ni/MgCo₂O₄ Catalyst for Efficient CO₂-Methanation.**
22. Mikhail Sandzhiev, **Real-Time Spatial Mapping of Metal Contamination in Environmental Waters for Sustainable Ecological Predictive Monitoring Using a Portable XRF Device.**
23. Viivi Berg, University of Eastern Finland, **A human skin cell model for screening the safety of components for novel bio-based coatings and composites.**

24. Ossi Laurikainen, University of Eastern Finland & Natural Resources Institute Finland (Luke), **Physiological differences in *Saprolegnia* spp. strains isolated from Finnish aquaculture facilities.**
25. Asmit Baral, Lappeenranta-Lahti University of Technology, **Influence of In:S Ratio on the Photocatalytic Performance of MIL-100(Fe)/In₂S₃ Composite for Diclofenac Removal.**
26. Jarmo Hietanen, University of Oulu, Measurement Technology Unit (MITY), **Bioluminescent ATP assay for monitoring industrial water quality for microbes.**
27. Onni Sirkiä, University of Eastern Finland, **Toxicity of Tire Rubber Leachate to *Daphnia magna* and the Temporal Trends of Additive Leaching.**
28. Eetu Hakkarainen, UEF, Department of Chemistry and Sustainable Technology, **Engineering Anion- π^+ Interactions Through Isomer Design to Modulate Efficient Luminescence in Bisphosphonium Salts.**
29. Mariia Beliaeva, Department of Chemistry and Sustainable Technology, UEF, **Photoemissive silver and gold phosphane-phosphinic acid complexes.**
30. Henna Korhonen, Department of Chemistry and Sustainable Technology, UEF, **Vapochromic luminescence of a copper(I)/sodium phosphine iodide complex.**
31. Nisar Fatima, Andrei Beliaev, UEF Joensuu; Merve Atasoy, UEF Joensuu; Igor Koshevoy, UEF Joensuu, **Biodegradable ionic luminophores: a versatile sustainable platform for optronics.**
32. Pavel Alekseychik, Natural Resources Institute Finland, **Exploring the Eddy-Covariance N₂O data from six Finnish sites.**
33. Oskari Ylikoski, **Building Networks for Nature-based Solutions: The UEF Living Lab.**

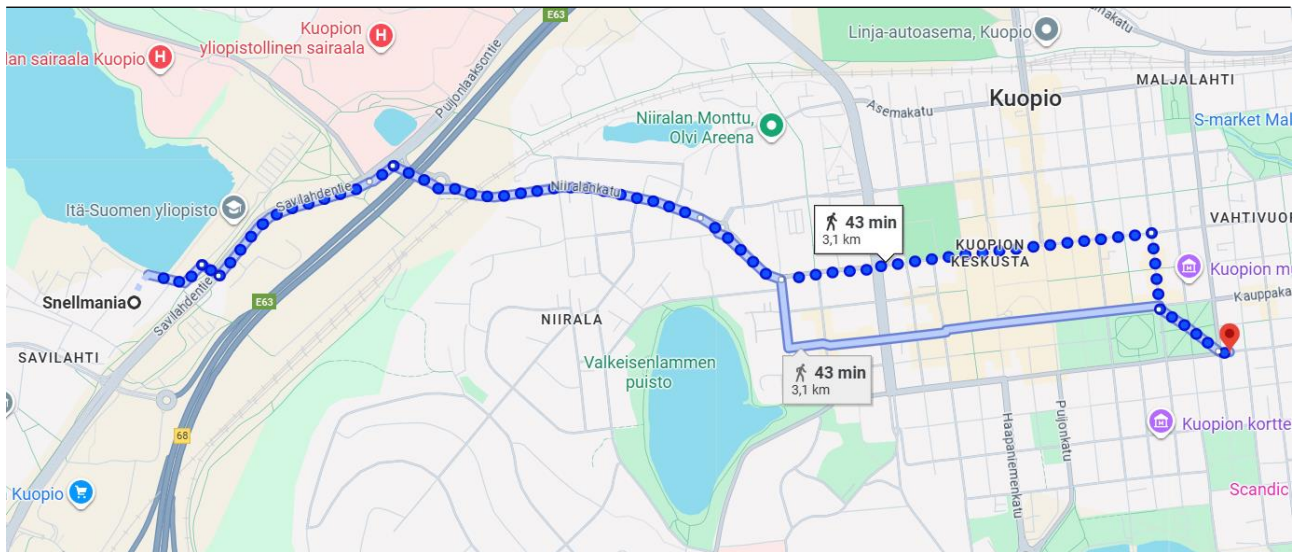
LABORATORY VISITS

Conference day 1: Friday, October 31, at 14:00-16:00; starts from Snellmania 2nd floor lobby

Laboratory visits highlight several key research facilities at the University of Eastern Finland, Kuopio campus.

CONFERENCE DINNER

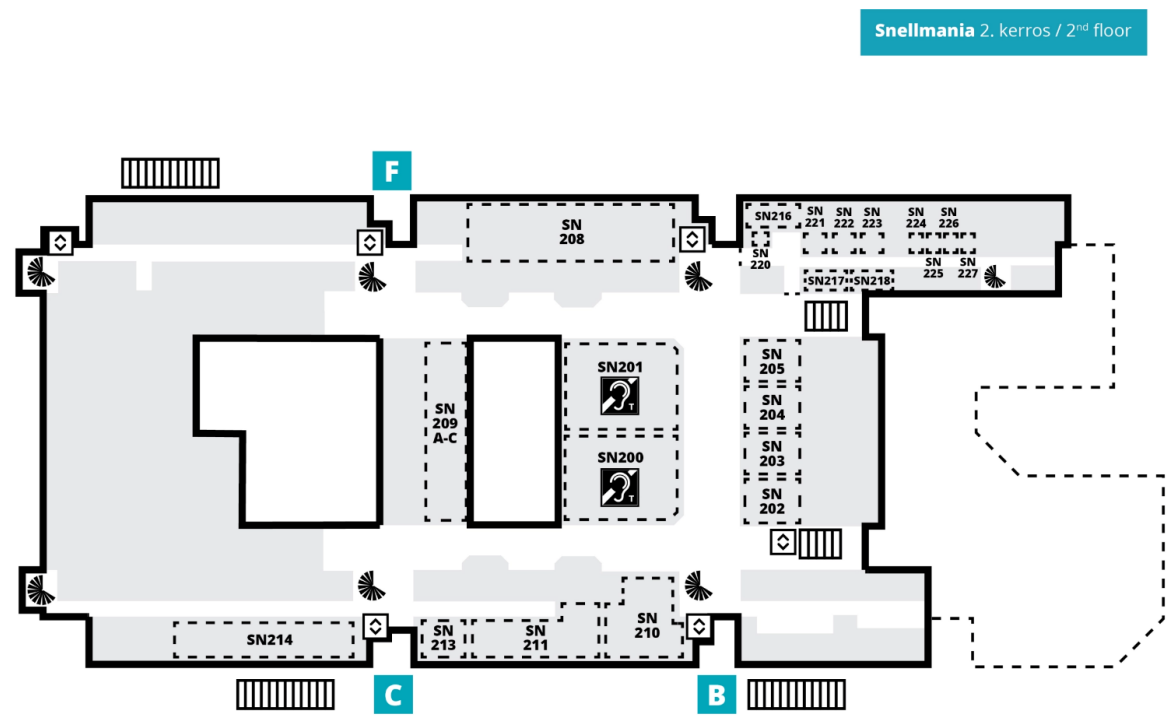
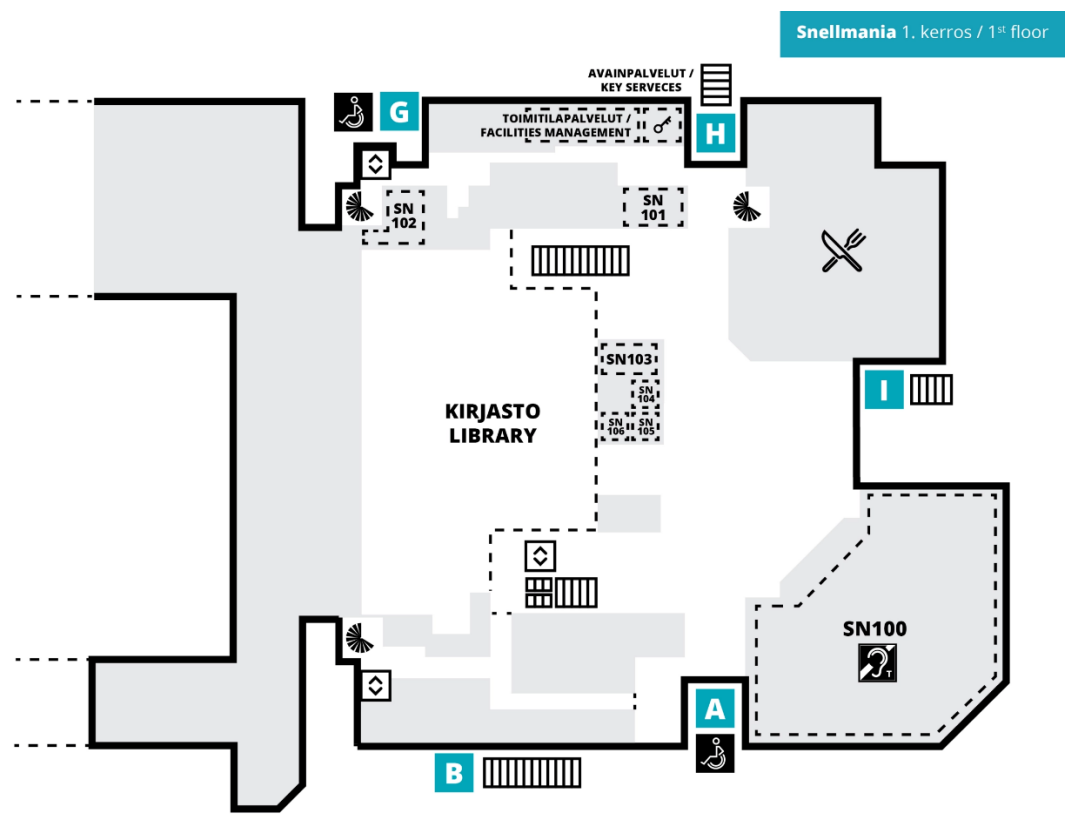
If you have pre-registered for the conference dinner, please ensure you collect your dinner ticket when checking in at the registration desk. The dinner will take place on Thursday, October 31st from 7pm - 10pm at the **Original Sokos Hotel Puijonsarvi, Minna Canthin katu 16, 70100 Kuopio** in about 43 minutes by walking from the Snellmania building.

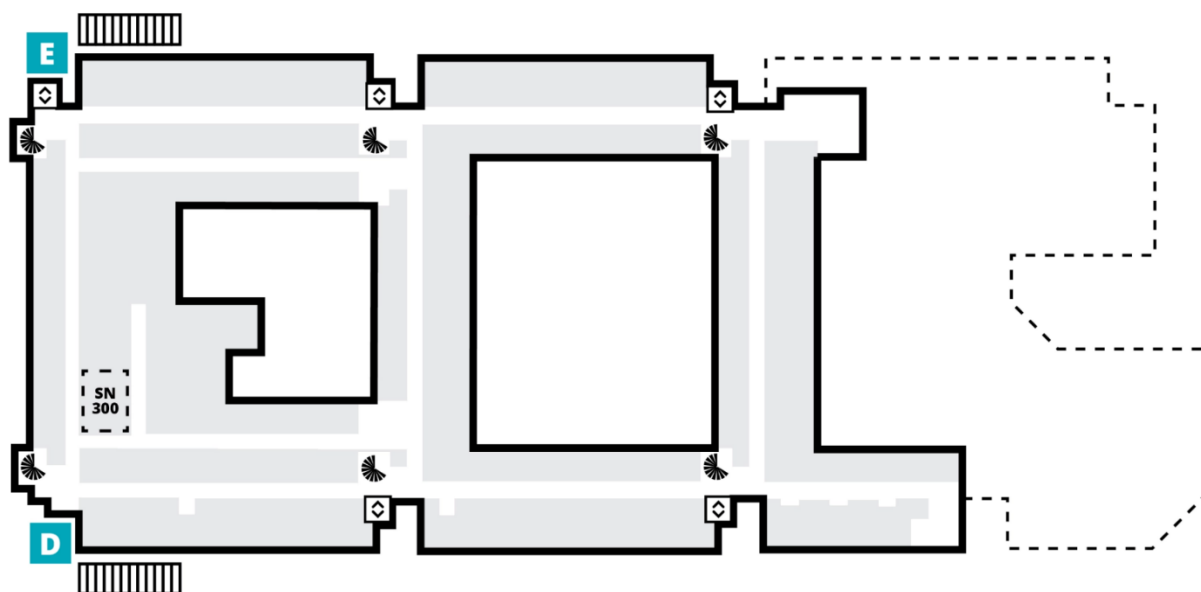


CONTACT INFORMATION

If you have any questions regarding the event, you can first seek assistance at the registration desk located in the Snellmania 2nd floor lobby. You can also contact conference organizers at ics@uef.fi. For emergencies, instructions can be found at the end of the booklet.

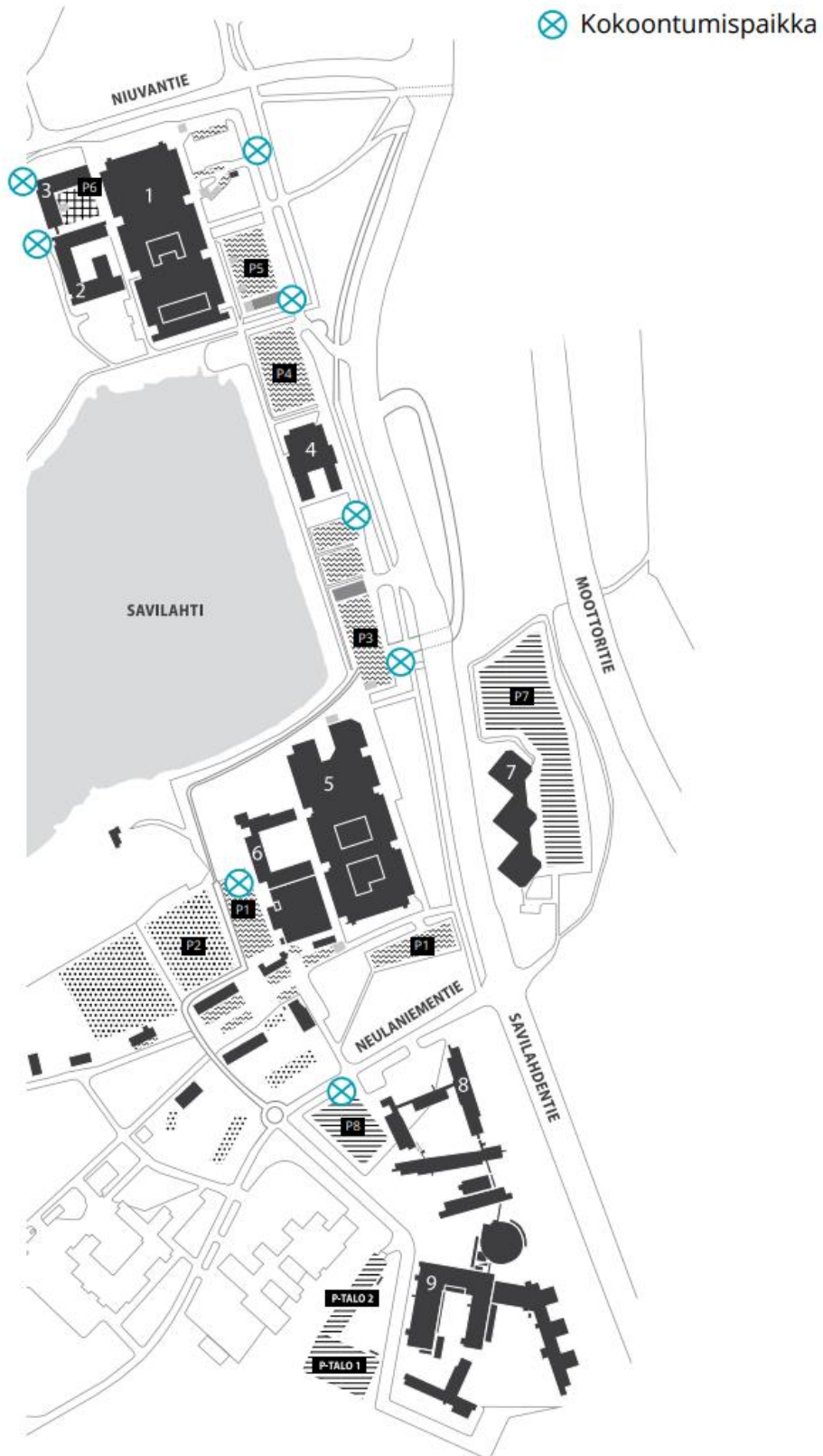
MAP OF SNELLMANIA





IN CASE OF EMERGENCY

In case of an emergency, please call the general emergency number 112. Snellmania building is located in Yliopistoranta 8. Below is a map of the assembly points in the event of a fire or other accident.





ICS25

INTERNATIONAL CONFERENCE ^{FOR}
SUSTAINABLE RESOURCE SOCIETY

LOOKING FORWARD TO SEEING YOU IN ICS25!



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