

# Atmosphere and Climate Competence Center (ACCC)

## 3<sup>rd</sup> ACCC Impact Week

**When:** April 8-12, 2024

**Where:** Sofia Cultural Center, Kallvikinniementie 35, 00980 Helsinki

<https://www.acccflagship.fi/index.php/3rd-acc-impact-week-2024/>

ACCC is organizing the 3rd Impact Week at the Sofia Cultural Center in Vuosaari, Helsinki, April 8-12. During the week, we organize various seminars, workshops and panel discussions related to different ACCC Impact Program topics. The event is free of charge and you can register for all events or individual events through the same registration link. All events are open for participation. The language of the different events is Finnish or English.

time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
	Climate Change & Civil society dialogue, Climate education	Sofia Earth Forum & LuTe dialogue / Impact training for ACCC researchers / Insurance & CC seminar	Nature based solutions & Climate Change	Indoor Air, holistic view in solving future challenges	Carbon sinks vital for climate mitigation
08:00-08:45		Breakfast – for registered	Breakfast – for registered	Breakfast – for registered	Breakfast – for registered
08:45-09:00		Opening words Markku Kulmala	Opening words	Opening words	Opening words
09:00-09:45		Sofia Forum-Lute	<b>Plenary</b> Sirpa Pietikäinen	<b>Plenary(s)</b> Miimu Airaksinen Dusan Licina Markku Kulmala	<b>Plenary(s)</b> Petteri Taalas Jouni Keronen Olli Tahvonen
9:45-10:30	Climate & Death	Sofia Forum- LuTe	C & GHG Verification in Agriculture // EU China adaptation of forestry to CC // Peatland forests WS	Air Quality-Indoors	COP28/29 Carbon sinks vital for climate mitigation
<b>10:30-10:45</b>	<b>coffee break</b>	<b>coffee break</b>	<b>coffee break</b>	<b>coffee break</b>	<b>coffee break</b>
10:45-12:00	Climate & Death  // Climate University	Sofia Forum- LuTe	C & GHG Verification in Agriculture // EU China adaptation of forestry to CC //Peatland forests WS	Air Quality-Indoors	COP28/29 Carbon sinks vital for climate mitigation
<b>12:00-13:00</b>	<b>lunch</b> <b>Acad. M. Kulmala</b> <b>welcome words</b>	<b>lunch</b>	<b>lunch</b>	<b>lunch</b>	COP28/29 Carbon sinks vital for climate mitigation
13:00-14:00	Climate & Death  // Climate University	ACCC Researchers' Training // Insurance & CC	C & GHG Verification in Agriculture	Air Quality-Indoors //PEEX	<b>late lunch</b>
14:00-15:00	Climate & Death  // Climate University	ACCC Researchers' Training // Insurance & CC	Innovation Forum	E3 Pandemic Response //PEEX	
<b>15:00-15:15</b>	<b>coffee break</b>	<b>coffee break</b>	<b>coffee break</b>	<b>coffee break</b>	
15:15-16:00	Climate & Death	ACCC Researchers' Training // Insurance & CC	Innovation Forum	E3 Pandemic Response //PEEX	
16:00-17:00		ACCC Researchers' Training	ACCC-SIAB meeting	PEEX	
ca 17:00		<b>Dinner</b>			

## Monday 8. April

### Climate Change & Civil society dialogue, Climate education

Climate & Death 2024 at 10:00-16:00 (Restaurant, Valburga, Chapel)

Climate & Death 2024 is a transdisciplinary seminar that invites participants from different disciplines and fields to discuss the intersections between climate and death. The event provides a platform to discuss emerging issues related to the topic and to present your research, projects, or artistic contributions in a friendly atmosphere. The event is organized by the [Safer Climate](#) network that is a part of ACCC's outreach work, in collaboration with [The Finnish Death Studies Association](#), [Tunne ry](#) and [Artists with Evidence](#).

Seminar website: <https://www.saferclimate.org/call-for-contributions>. Welcome!

Organizer: Rosa Rantanen [rosa.rantanen@helsinki.fi](mailto:rosa.rantanen@helsinki.fi)

Language: English

9.30 COFFEE, REGISTRATION

10.00-11.00 OPENING DISCUSSION: WHY CLIMATE AND DEATH? *Sofia restaurant (main building)*

Why Climate and Death? Perspectives from the organizing committee

- Rosa Rantanen, Safer Climate, INAR, ACCC, University of Helsinki
- Ines Montalvao, Artists with Evidence
- Maija Butters, the Finnish Death Studies Association, University of Helsinki
- Heidi Kosonen, the Finnish Death Studies Association, University of Jyväskylä
- Taneli Saari, Tunne ry
- Juni Sinkkonen, Tunne ry

Introduction of Kulkugalleria

Talks

- Inka Laisi & Renske Visser: Small Matters when It Comes to Life and Death
- Panu Pihkala: Climate Change and Bereavement

11.00-12.00 PARALLEL SESSIONS

1 / On Grief and Recognizing Value Beyond Humans, *Sofia restaurant (main building)*

- Elina Hytönen-Ng Laments as a Tool for Environmental Criticism
- Sanna Karhu Repressed Grief, Concealed Shock: Climate Emotions, Death, and Nonhuman Animals
- Eline Gaudé Through Meltwater and Ash: Ceremony for a Dying Glacier
- Joshua Hurtado Futuristic Science Fiction, Socio-Ecological Crises and Death Politics
- Juuso Kähönen Contemplation of Death and Environmental Values

2 / On Listening to What the Atmosphere is Telling Us, *Seminar room Valburga (building C)*

- Juan Duarte Atmospheric listening
- Eeva Houtbeckers Untame Podcast
- Cristóbal Montesinos Nature-Based Funeral Practices in Urban Cemeteries for Climate Adaptation (online)
- Outi Meinander, Andreas Uppstu and Niko Karvosenoja IBA-ILMA project: Climate & Death from Three Points of View
  - talk / Climate Change and Dust Air Pollution Affecting Mortality, Health and Wellbeing
  - play / Icelandic Westmann Isles Atmospheric Measurements Are Under Threat to Be Terminated, What Can We Do?
  - photo exhibition / Icelandic Glaciers Are Dying

12.00-13.30 LUNCH BREAK at Sofia Restaurant

#### Food for Thought During the Lunch Break

- Bukunmi Oyewole Live and Let Live / digital photo exhibition (TBA)
- Tiina Ristola Traces of Humans / digital photo exhibition (TBA)
- IBA-ILMA Project Icelandic Glaciers Are Dying / photo exhibition, *Sofia lobby*
- Walk by the waterfront around Sofia / Printed maps available in the lobby  
*You can enjoy a walk in the lovely nature around Sofia by yourself or with old & new friends. This activity is independent and voluntary - just a grab a map from the lobby and get started! Make sure you have weather appropriate clothes and shoes.*

#### 13.30-15.00 PARALLEL SESSIONS: FILMS AND WORKSHOPS

##### *Registration to workshop on-site*

- Films and Discussion, *Seminar room Valburga (building C)*
  - Yohannes Sitotaw Addisie Impact of Armed Conflict on Climate Change and Death in Ethiopia (online talk)
  - Kaisa Penttilä The Landing (animation)
  - Monica Seppänen Elämän eliksiiri/The Elixir of Life (short film)
  - Simon Vinsenzi FROM THE DEAD AIR ORGY: On the Nature of Things (broadcast)
  - Raisa Foster End of a Story (short film)
- Eco-emotions Workshop: Exploring Grief Through Collective Eco-Poetry and Embodiment (tbc)
  - Juni Sinkkonen, psychologist, Tunne ry
  - Stitching Workshop: A Stitch in Sorrow - Crafting Stories of Ecological Grief and Care
  - Eline Gaudé, artists, researcher
- Wood Carving Workshop: Daylight, Traces, Talks (tbc)
  - Jan Lütjohann, artist

#### 15.00-15.15 OFFEE BREAK *Sofia restaurant (main building)*

#### 15.15-16.0 JOINT CLOSING SESSION *Sofia restaurant (main building)*

- Talk, Mikko Ijäs What Socially Engaged Buddhism Could Offer to People Facing the Climate Crisis
- Kulkugalleria / artistic reflections on the day, Eero Tiittula
- Discussion & closing the day

Climate University Action Group meetings at 11:00-15:00, Auditorium, + Marina, Anna, Birgitta, Hanna, Katariina

How to educate active sustainability makers for the society and business? [Climate University](#) network of higher education institutions aims to educate the competencies the society needs to tackle the challenges of climate change and the sustainability crisis. In these workshops, Action Groups plan concrete actions we can do together. Welcome to join! <https://blogs.helsinki.fi/climateuniversity/vision/>

Organizer: Laura Riuttanen [laura.riuttanen@helsinki.fi](mailto:laura.riuttanen@helsinki.fi)

Language: Finnish/English

11:00 Climate University Action Groups 1-6 (6 meeting rooms + online)  
12:00 Lunch  
13:00 Climate University Action Groups 1-6 (6 meeting rooms + online)  
14:00 Climate University workshop summary (one meeting room + online)  
15:00 Coffee

Tuesday 9.April

## Sofia Earth Forum & LuTe dialogue / Impact training for ACCC researchers / Insurance & CC seminar

Tarvitsemme keskustelua eri tieteenalojen välillä: luonnontieteilijöiden ja teologien dialogi klo 9:00-12:00 (Auditorium)

Isot kestävyysaasteet, kuten ilmastonmuutos ja luontokato, tarvitsevat tieteidenvälistä vuoropuhelua. Suomessa on kokoontunut luonnontieteilijöiden ja teologien keskusteluryhmä jo kymmenen vuoden ajan. Mistä on kyse? Mitkä teemat ovat puhututtaneet? Mikä on ollut vaikeaa ja mikä helppoa? Mitä vuoropuhelulla on annettavaa? Alustajina keskusteluihin osallistuneita luonnontieteilijöitä ja teologeja Suomesta.

Järjestäjät: Laura Riuttanen  
[laura.riuttanen@helsinki.fi](mailto:laura.riuttanen@helsinki.fi)  
Ilkka Sipiläinen [ilkka.sipilainen@evl.fi](mailto:ilkka.sipilainen@evl.fi)  
Kieli: Suomi



- 09:00 Aamunavaus, Isä Ambrosius, metropoliitta, Suomen ortodoksinen kirkko
- 09:15 Miksi luonnontieteen ja teologian vuoropuhelu? Laura Riuttanen, ilmakehätieteiden yliopistonlehtori, Helsingin yliopisto
- 09:25 Miksi luonnontieteen ja teologian vuoropuhelu? Kirkon näkökulma, Ilkka Sipiläinen, yhteiskunnan ja kestävän kehityksen asiantuntija, Suomen ev. lut. kirkko
- 09:45 Alustus 1: Julma luonto, Olli-Pekka Vainio, dogmatiikan professori, Helsingin yliopisto
- 10:00 Alustus 2: Luonnontiede, teologia ja kirkko ilmaston asiassa, Anna Lintunen, metsätieteiden yliopistotutkija, Helsingin yliopisto
- 10:15 Alustus 3: Hyväntahtoista hyminää, toiveajattelua vai luopumista? Mikael Fortelius, evoluutiopaleontologian professori emeritus, Helsingin yliopisto
- 10:30 Alustus 4: Teologin ja luonnontieteilijän keskustelun tuotto? Markus Olin, ydinjätteiden loppusijoituksen tutkimusprofessori, VTT
- 10:45 Kahvitauko
- 11:00 Paneelikeskustelu: keskustelijoina alustajat, moderoi Laura Riuttanen ja Ilkka Sipiläinen
- 12:00 Lounas

**What does impact mean and how to train to talk about the impact of your research? at 13:00-15:30 (Valburga)**

In this session we will discuss ways of understanding the societal and business impact of your research in an easy, user-friendly manner. We will give you some insights of peers and equip you with practical tools that you can either undergo training with us or take home for further reflection. This session is meant for all, seasoned professors or young researchers preparing their first scientific work are warmly welcome, everyone can learn here. Within the ACCC community lies a wealth of knowledge and expertise. At the University of Helsinki, we've identified a growing demand for a nuanced understanding of climate change across various levels. Moreover, the people of ACCC do not always know how great their work actually is and how many people outside the research community are interested in it. The topics explored by ACCC might seem daunting and highly scientific to them. We offer inspiration and examples about Impact. Please join the session to learn to talk about the Impact of your research!

Organizers: Katrianne Lehtipalo [katrianne.lehtipalo@helsinki.fi](mailto:katrianne.lehtipalo@helsinki.fi)

Jasmin Etelämäki [jasmin.etelamaki@helsinki.fi](mailto:jasmin.etelamaki@helsinki.fi)

Pia Dolivo [pia.dolivo@helsinki.fi](mailto:pia.dolivo@helsinki.fi)

Language: English

#### 13:00 Introduction

- Markku Kulmala, Professor, Director of ACCC
- Pia Dolivo, Director, Fundraising, University of Helsinki

#### 13:15 What have I learned. An exploration into effective communication of impact.

- Pedro Camargo, professor, Chemistry, University of Helsinki
- Young researchers' views (name tbc)
- Questions and short discussion

#### 13:45 Learning café how to describe impact of research

Examples and small training tasks - Knowledge brokers

Iiris Koivulehto and Jaakko Kuosmanen, The Finnish Academy of Science and Letters

#### 14:45 Impact in business co-operation and fundraising, lessons learned

Director Pia Dolivo and Liaison Manager Jasmin Etelämäki, Community Relations

#### 15:05 Closing words, homework, and possibility to continue training and get feedback in virtual meetings, Katrianne Lehtipalo, Jasmin Etelämäki

### Perspectives on Climate Change Mitigation at 15:30-16:30 (Valburga)

This session will offer three distinct perspectives on the impact of climate change and mitigation efforts. Through presentations and discussions, we'll explore viewpoints from the realms of research, business, and foundation work. Speakers:

- **Nina Elomaa:** Chief sustainability Officer at SOK. Nina will open the focus of the biggest retail and service business in Finland on climate change and talk about the future research questions of S-ryhmä on climate change and compensation activities.
- **Anna Herlin:** Head of Development and founder of Tiina and Antti Herlin Foundation. Anna will share current perspectives of the Foundation on Climate change and talk about the mission of the Puistokatu 4, a safe space for research, work and discourse on the current ecological crisis in Helsinki.

Organizers: Markku Kulmala [markku.kulmala@helsinki.fi](mailto:markku.kulmala@helsinki.fi)

Jasmin Etelämäki [jasmin.etelamaki@helsinki.fi](mailto:jasmin.etelamaki@helsinki.fi)

Language: English

#### 15:30 Introduction

##### Perspectives on Climate Change Mitigation

- Nina Elomaa, Chief Sustainability Officer, SOK
- Anna Herlin, Head of Development, Tiina and Antti Herlin Foundation
- Mari Pihlatie, Professor in environmental Soil Science, University of Helsinki/ACCC

#### 16.15 Joint discussion with panellists

### Insurance and Climate Change seminar at 13:00-16:00 (Auditorium)

Insurance is about bearing risks on behalf of another. When risks change, insurance companies have to adapt. One key risk especially in non-life insurance is climate change. For example, if storms become more frequent or severe it affects the pricing and reserving of insurance products. This session brings together ACCC's researcher's and insurance mathematicians to discuss about the future risks. What are the latest developments? What kind of risks are important to insurance industry? What kind of challenges we are facing?

Organizers: Victoria Sinclair [victoria.sinclair@helsinki.fi](mailto:victoria.sinclair@helsinki.fi)  
Mikko Kuusela [mikko.kuusela@helsinki.fi](mailto:mikko.kuusela@helsinki.fi)  
Language: Finnish/English

Chairperson: Eeva Kuntsi-Reunanen

13:00 Introduction by Eeva Kuntsi-Reunanen (Finnish Meteorological Institute)

13:05 Jouni Räisänen, INAR, University of Helsinki "CMIP6 models and their climate change projections for Finland" (remote)

13:25 Victoria Sinclair, INAR, University of Helsinki "Winter storms and how they will change in the future" (in person)

13:45 Leena Järvi, INAR, University of Helsinki, Vulnerability of urban areas to climate change (in person)

14:05 Saara Leppänen (Finnish Meteorological Institute) Leveraging tailored information on climate change to address the disparate climate change impacts and responses (in person)

14:30 Toby Behrmann (AXA Climate), Innovations in Insurance in a Changing Climate – real world examples (remote)

15:00 Coffee

15:15 Panel discussion on the topic of "Adaption measures to prevent losses due to climate change" moderated by Mikko Kuusela (Finance Finland).

Panellists:

Lari-Pekka Kyllönen (chief underwriter, LocalTapiola)

Tuukka Rautio (Climate specialist (adaptation), National Climate Unit, Centre for Economic Development, Transport and the Environment)

Hilppa Gregow (Finnish Meteorological Institute)

Saara Leppänen (Finnish Meteorological Institute)

Veikko Väilä (senior advisor for Howden)

## 17:00 Joint Dinner at Sofia Cultural Centre Restaurant

*Ulla Taipale is a Finnish art curator, dedicated in creating cultural narratives weaving together nature, natural sciences, and arts. The outcomes are often exhibitions, workshops, seminars or publications, realized together with artists, scientists and creative work groups. She is the head of Climate Whirl Arts Program at INAR (Institute for Atmospheric and Earth System Research). In 2021-23 she curated a permanent art exhibition Periferia-Forest Art Lab at the Hyytiälä Forest Station, a biological field station at Pirkanmaa, Finland.*

In her presentation at the dinner she discusses on connections of the Arts to the Landscape and the Research of the University Forest Station.

- *Periferia – A Permanent Art Exhibition in the Midst of the Boreal Forest. Connections of the Arts to the Landscape and the Research of the University Forest Station*
- *Periferia / Forest Art Lab is an art exhibition in the forest. It invites people to explore the forest and to understand it from different angles. The artworks catalyse the experience with the forest. The Periferia exhibition is a collection of artworks combining ideas and thought about forest nature and boreal forest related natural scientific research.*



## Wednesday 10.April

### Nature based solutions & Climate Change

09:00 – 09:45 Nature-based solutions should always be the default option  
Plenary Speaker: Sirpa Pietikäinen, MEP, European Parliament  
(Auditorium)



Carbon and Greenhouse Gases Verification in Agriculture - User's Needs and Research Community's Solutions  
at 10:00-14:00 (Auditorium)

Objective: To assess users' needs and discuss the research community's capacity to meet these needs, which includes 1) Identifying existing bottlenecks and obstacles, 2) Formulating solutions - specifying the nature of the solutions and potential collaborators, and 3) Planning steps and timeline for the implementation of these solutions.

Organizers: Layla Höckerstedt [layla.hockerstedt@fmi.fi](mailto:layla.hockerstedt@fmi.fi)  
Language: Finnish/English

Information needs 9.50-10.30

09.50 Opening - Jari Liski, Chief Scientist, Finnish Meteorological Institute  
10.00 Climate footprint of the food value chain - Juha Nousiainen, SVP, Valio  
10.15 Farmers' view - Heikki Aro, Senior Advisor, Soil and Climate, MTK  
10.30-10.45 Coffee break

Information needs, data, and R&D status 10.45-12.00

10.45 Farmer research and market viewpoint - Galina Kallio, Postdoctoral Researcher, University of Helsinki  
11.00 Public sector viewpoint: promoting carbon credits or emissions trading in agriculture- Markku Ollikainen, Research Director, University of Helsinki  
11.15 Satellite monitoring and farm data - Anders Munck, Chief Specialist, Finnish Food Authority  
11.30 Research status and capabilities - Jari Liski, Chief Scientist, Finnish Meteorological Institute  
11.45 Discussion  
12.00 Lunch

R&D status continues 13.00-14.00

13.00 The added value of research and future needs - Mari Pihlatie, Professor, University of Helsinki  
13.15 Research-based service development - Tuukka Petäjä, Professor, University of Helsinki  
13.30 Digital solution - Kristiina Härkönen, Chief Sustainability Officer, Gofore

### 13.45 Discussion

#### **EU China adaptation of forestry to climate change (Eco2Adapt EU project) seminar at 10:00-12:00, (Marina)**

Climate change induces multiple conflicting demands on forest management. These range from increasing carbon storage and increased use of wood as a green raw material to conserving biodiversity. Changes in forest management have been gradual, but large-scale damages in Central Europe indicate in some regions, we may need transformative changes in forest management.

The event, organised in collaboration with the Eco2adapt EU China flagship research project, tries to understand how we can conserve forest services under climate change and explores the nature and potential needs for more transformative changes. The event is hybrid.

Organizers: Frank Berninger [frank.berninger@uef.fi](mailto:frank.berninger@uef.fi)  
Jukka Pumpanen [jukka.pumpanen@uef.fi](mailto:jukka.pumpanen@uef.fi)  
Language: English (event is hybrid)

#### Speakers and panellists

- Dr. Tahamina Khanam, University of Eastern Finland, UEF (chair)
- Prof. Frank Berninger, University of Eastern Finland, UEF
- Prof Yong Pang, Head Institute of Forest Resource Information Techniques
- Dr. Wending Huang, Formerly Stora Enso & Asia Pacific Paper, Green Estates oy
- NN, the Finnish Forest Center; speaker to be announced
- Prof. Lei Wang Zhejiang A&F University

#### **Restoring low productive peatland forests Workshop (in Finnish) at 10:00-12:00 (Teresa)**

Heikkotuottoisten metsäojitettujen soiden ennallistaminen – oikeilla kohdevalinnoilla ja hyvillä käytänteillä kohti turvattua maaperän hiilivarastoa ja kohentunutta toiminnallista monimuotoisuutta. Työpaja.

Organizers: Eeva-Stiina Tuittila [eeva-stiina.tuittila@uef.fi](mailto:eeva-stiina.tuittila@uef.fi)  
Päivi Merilä [paivi.merila@luke.fi](mailto:paivi.merila@luke.fi)  
Language: Finnish

10:00 Opening, Eeva-Stiina Tuittila, Professor, University of Eastern Finland

10:10 Short introduction to discussion topic: Looking for climate and biodiversity benefits with peatland restoration

- Climate impact of peatland restoration, Anna Laine-Petäjäkangas, Assistant professor, UEF
- Biodiversity impact of peatland restoration, Päivi Merilä, Research Manager, Principal Scientist, LUKE
- Group discussion

11:45 Coffee break

11:00 What factors restrict restoration in practice?

- Short introduction, Teppo Hujala, Professor, UEF
- Group discussion

11:40 Conclusive discussion

12:00 End of the workshop

#### **ACCC Innovation Forum: Climate innovations impact & current regulatory environment at 14:00-16:00, (Auditorium)**



- Providing an update on the latest regulatory changes and their impact on climate innovation development, the elements of this session include:
- Finnish, EU and UN level regulatory and policy update
- Introduction to the most relevant voluntary climate impact mechanisms (standard development etc) Importance of innovation development concept and cooperation between administration/policy-makers, business & research.
- Seamless information flow from research to innovation – how to improve the present processes
- Collaboration between flagships ACCC and 6G, Flagship – Veturi collaboration, Research and Innovation Council views

Session will end in panel discussion on how to reach Finnish R&D budget aim, 4% of GDP

Organizers: Sami Paatero [sami.paatero@helsinki.fi](mailto:sami.paatero@helsinki.fi)  
Tuukka Petäjä [tuukka.petaja@helsinki.fi](mailto:tuukka.petaja@helsinki.fi)  
Markku Kulmala [markku.kulmala@helsinki.fi](mailto:markku.kulmala@helsinki.fi)

Language: Finnish/English

- 14:00 Greetings from the Finnish Government Research and Innovation Council  
ACCC Director, Academician Markku Kulmala
- 14:15 Defining cooperation potential between ACCC Flagship and 6G Flagship
  - Professor, 6G Ecosystem Director Jaakko Sauvola
  - Professor, Dean Jukka Riekkö, Faculty of Information Technology and Electrical Engineering, University of Oulu
- 14:30 Climate regulation development in the European Union, Adviser Sami Paatero, ACCC Flagship
- 14:45 Role of the Finance Ministers in carbon pricing and macro-economic modelling of climate impact, Pekka Morén, Deputy Member of Finland and Co-founder, Coalition of Finance Ministers for Climate Action
- 15:00 EU Carbon Removal Certification Framework (CRCF), Christian Holzleitner, Head of Unit, Land economy and carbon removals, Directorate-General for Climate Action, European Commission
- 15:15 Carbon Farming Pilot in Finland, Lauri Jyllilä, Project Manager Maanvaalija Ltd
- 15:30 Panel discussion: Critical next steps in carbon market development, Speakers from the afternoon / questions from the audience
- 16.00 End of the session

**ACCC Science and Impact Advisory Board (SIAB) Meeting 16:00-17:00 (hybrid)**

## Thursday 11.4

### Indoor Air, holistic view in solving future challenges

#### Plenary Speaker(s):



Miimu Airaksinen, Chair of Green Building Council Finland, SVP Development at SRV Group Plc



Dusan Licina, Assistant professor at the École polytechnique fédérale de Lausanne (EPFL), director of the Human-Oriented Built Environment Laborator

#### Indoor air - Complex Challenges and Unique Opportunities workshop at 9:00-14:00 (Auditorium)

Organizers: Minna Väkevä [minna.vakeva@innoa.fi](mailto:minna.vakeva@innoa.fi)  
Majja Peltola [majja.peltola@helsinki.fi](mailto:majja.peltola@helsinki.fi)  
Markku Kulmala [markku.kulmala@helsinki.fi](mailto:markku.kulmala@helsinki.fi)

Language: English

8:00 Breakfast

8:45 Opening words Prof. Academician Markku Kulmala

9:00

- Futureproof buildings

Dr. Miimu Airaksinen, Chair of Green Building Council Finland, SVP Development at SRV Group Plc

- Building Green, Breathing Clean: Navigating Indoor Environmental Quality (IEQ) in in Green Building Certifications Amidst Climate Variability

Dr. Dusan Licina, Assistant Professor at the École polytechnique fédérale de Lausanne (EPFL), Director of the Human-Oriented Built Environment Laboratory

10:00 Co-working sessions: Why do we need a holistic view to solve indoor air related challenges

Each with a lead scientist and an industry expert who will introduce some real life challenges

1. Adapting to climate change – FMI lead + Ilkka Salo, Talteka ry
2. Exposure studies – UH lead: Tareq Hussein + Kaisa Wallenius, TTL + Vesa Koskinen, Sirate Group
3. Wooden, bio-based, and circulated materials and solutions – UEF lead: Taina Yläjuuti
4. Sources, removal mechanisms, chemical transformations – TAU lead: Miika Dal Maso + Vuokko Lappalainen, Sirate Group + Hanna Marttila, Labroc

10:30 Coffee break

11:00 Lessons learned and special remarks

- Remarks by the co-working groups
- Intro & comments by

- Raija Polvinen, Chief Ecosystem Officer, Kiilto SUPER Healthy Buildings ecosystem
  - Jenni Reuter, Associate Professor in Architectural Principles and Theory, Aalto, wooden buildings with low emissions
  - Discussions
- 12:00 Lunch
- 13:00 Panel and wrapping up the day
- Panel: Markku Kulmala, Miimu Airaksinen, Raija Polvinen, Jenni Reuter. Moderator: Minna Väkevä
  - Indoor Air Research Program - next steps
  - Closing remarks

### **E3 Pandemic Response seminar at 14:00-16:00 (Auditorium)**

Controlling pandemics, like Covid-19, requires a comprehensive approach to cover all relevant disease transmission routes. Finding effective protection strategies towards pandemics, and infectious diseases in general, requires multidisciplinary approach and close co-operation between different specialists, like medical doctors and engineers. The E3 project wants to develop modern science and technology to create effective countermeasures to prevent the spreading of infectious diseases. The aim is to develop technical solutions and scientific knowledge before the next pandemic emerges so that appropriate technological solutions are available and already in use in indoor environments mitigating the transmission of pathogens in spaces where people meet each other. The project, conducted in close collaboration between research institutes, universities and companies, primarily investigates different pathways of pathogens and viruses, virus control and detection methods that can be used to find solutions to keep indoor air clean and safe. In our seminar, you can hear about the latest results of the E3 project. More information regarding the project can be found from [www.pandemicresponse.fi](http://www.pandemicresponse.fi)

Organizers: Miikka Dal Maso [miikka.dalmaso@tuni.fi](mailto:miikka.dalmaso@tuni.fi)  
Topi Rönkkö [topi.ronkko@tuni.fi](mailto:topi.ronkko@tuni.fi)

Language: English

Speakers:

- 14:00 Topi Rönkkö, Tampere University: E3 Excellence in Pandemic Response and Enterprise Solutions, Project introduction
- 14:05 Ville Vartiainen, Helsinki University Hospital HUS: Preliminary results from E3 daycare study.
- 14:20 Ville Silvonen, Tampere University: Indoor and outdoor particulate matter concentrations and the effect of portable air filtration units in urban day cares
- 14:35 Mikko Auvinen, Finnish Meteorological Institute: Indoor aerosol dispersion modelling: results from the E3 project.
- 14:50: Short break
- 15:00 Sampo Saari, Tampere University of Applied Sciences: Measurement of human respiratory aerosol emissions
- 15:15 Ilpo Kulmala and Arto Säämänen, VTT Technical Research Centre of Finland: Estimation of airborne infection transmission risk in indoor environments.
- 15:30 Petteri Marjanen, Tampere University: Investigating volatile organic compounds emitted by infected cells.
- 15:45 General discussion
- 16:00 End of session

### **Pan-Eurasian Experiment (PEEX) Program collaborators' Online Seminar at 13:00-16:45 (Marina)**

Aim of the session is to introduce the research and education at the new PEEX partner universities and discuss future collaboration in a frame of climate change and air quality research.

Organizers: Hanna Lappalainen [hanna.k.lappalainen@helsinki.fi](mailto:hanna.k.lappalainen@helsinki.fi)  
Alexander Mahura [alexander.mahura@helsinki.fi](mailto:alexander.mahura@helsinki.fi)  
Markku Kulmala [markku.kulmala@helsinki.fi](mailto:markku.kulmala@helsinki.fi)  
Language: English

13:00 Session I - General Information

Markku Kulmala, Hanna Lappalainen, Alexander Mahura

13:20 Session II-A - Welcome new Partners signed PEEEX Memorandum of Understanding  
Invited presentations from Yerevan State University (Armenia), Chernivtsi National University (Ukraine), University of Tartu (Estonia), Latvia University (Latvia), Kyiv National University of Building and Architecture (Ukraine)

14:10 Break

14:20 Session II-B - Welcome new Partners signed PEEEX Memorandum of Understanding  
Invited presentations from Bila Tserkva National Agrarian University (Ukraine), The Arctic University of Norway – University of Tromsø (Norway), Institute of Mathematical Machines and Systems Problems (Ukraine), Kyiv Academic University (Ukraine), Yarmouk University (Jordan), University of Copenhagen (Denmark)

15:20 Break

15:30 Session III - Invited presentations from PEEEX Program Partners  
Invited presentations from International Research Center of Big Data for Sustainable Development Goals, Aerospace Information Research Institute Chinese Academy of Sciences (China), Ukrainian Hydrometeorological Institute (Ukraine), Estonian University of Life Sciences (Estonia), Odessa State Environmental University (Ukraine)

16:10 Discussion and Next Steps; COST Action for PEEEX collaboration

16:45 End of the PEEEX Online Seminar

## Friday 12.4 COP28/COP29 Carbon sinks vital for climate mitigation

Plenary Speaker(s):



Petteri Taalas, Director General, Finnish Meteorological Institute



Jouni Keronen, Professor of Practice, University of Helsinki



Olli Tahvonen, Professor, Economic-ecological optimization group, University of Helsinki

### Carbon sinks vital for climate mitigation, seminar and panel discussion at 9:00-13:00 (Auditorium)

The outcome of the first global stocktake December 2023 recognizes the need for deep, rapid and sustained reductions in greenhouse gas emissions and the need for accelerating removal technologies such as carbon capture, utilization and storage. In addition, we urgently need a science-based vision of how the degradation of nature-based carbon sinks can be avoided and the sinks strengthened in a cost-efficient manner. In

connection with the Paris Agreement, the EU and its Member states have set their own goals. EU aims to be carbon neutral by 2050 and net negative after that. Finland aims to be climate neutral by 2035 and net negative after that, which is one of the most ambitious climate goals in the world. How could we attain these vital climate targets?

ACCC carries out top-research and provides observations on nature-based sinks and the related land – atmosphere processes, e.g., in forests, arable lands, coastal-marine and urban environments. ACCC together with Climate Leadership Coalition (CLC) aims to scale up its science-based knowledge and make an impact to climate mitigation from local to global scales.

Organizers: Hanna Lappalainen [hanna.k.lappalainen@helsinki.fi](mailto:hanna.k.lappalainen@helsinki.fi)  
Jouni Keronen [jouni.keronen@helsinki.fi](mailto:jouni.keronen@helsinki.fi)  
in collaboration with CLC

Language: Finnish / English

09:00 Welcome

Markku Kulmala, Academy professor, Director, ACCC  
Tuuli Kaskinen, CEO, CLC

09:15 Plenary-1

The status and developments of climate change, Petteri Taalas, Prof., Director General, Finnish Meteorological Institute and former Secretary General of the World Meteorological Organization

09:45 Plenary-2

The status and development needs of carbon dioxide removal, Dr. Jouni Keronen, Professor of Practice, University of Helsinki

10:15 Reflections panel:

- Jyri Seppälä, Prof., Finnish Environment Institute, Chairman, Finnish Climate Change Panel
- Jaana Bäck, Prof., Forest-Atmosphere Interactions, University of Helsinki
- Pirtta Mikkonen, Dr., Vice President, Energy at Metsä Group
- Pekka Vuorinen, Environmental and Energy Director of the Confederation of Finnish Construction Industries RT
- Moderator Dr. Anneli Pauli, Professor of Practice, University of Helsinki

10:45 Coffee break

11:00 Plenary-3

The effects of BECCS on the economics of wood production and forest carbon sinks, Prof. Olli Tahvonen, Economic-ecological optimization group, University of Helsinki

11:30 Reflections panel:

- Juhani Damski, Permanent Secretary of the Ministry of the Environment
- Petteri Pihjalämäki, Senior Advisor, Afry
- Aleksi Vihonen, CEO, Arvometsä
- Moderator, Dr. Jouni Keronen, Professor of Practice, University of Helsinki

12:00 ACCC Roadmap

Hanna Lappalainen, Dr., INAR, University of Helsinki, ACCC  
Yulia Yamineva, Dr., University of eastern Finland, ACCC  
Moderator Dr. Anneli Pauli, Professor of Practice, University of Helsinki

12:30 COP28 to COP29 - preparation of joint ACCC-CLC agenda

Markku Kulmala & Jouni Keronen

13:00 Lunch

14:00 End of day / Impact Week