



Climate change and green transition as global challenges for science and society



ABOUT

Climate Change and Green Transition are global challenges for science and society. The Atmosphere and Climate Competence Center (ACCC) invites business leaders, policymakers, and stakeholders to the 4th ACCC Impact Week. This free event offers expert panels, discussions, and networking opportunities on climate, air quality, and sustainability. Sessions will be held in Finnish or English.

KEY WORDS

Safer Climate, Oceans & Climate Change, PEEEX Initiative, Future Earth Finland, Tipping points & Risks management, Sofia Earth Forum, GHG & ecosystem services, Climate Digital Twin, Green skills, Climate education, Impactful climate change communications, Climate 2075, Indoor air & energy efficiency, ACCC research infrastructures, Global South, Science Diplomacy, ForClimate, Co-Carbon, changing fuels & emissions, Forest fires, Forest management, Carbon pricing, Climate policy

KEYNOTE SPEAKERS INCLUDE



Academician
Markku Kulmala



Bishop
Kaisamari Hintikka



Chief Economist
Ottmar Edenhofer



Professor
Tuukka Petäjä

THE PROGRAM

<https://www.acccflagship.fi/index.php/4th-accc-impact-week-2025/>

DETAILS



DATES
APRIL 22-25, 2025



LOCATION
HELSINKI, SOFIA
CULTURAL CENTRE
Kallvikinniementie 35,
00980 Helsinki



CONFERENCE PRICE
FREE OF CHARGE



LANGUAGE
ENGLISH & SUOMI



TO WHOM?
EVERYBODY INTERESTED
IN CLIMATE CHANGE AND
IT'S EFFECTS TO OUR
FUTURE


To register
(by 9th April 2025) and
for more information,
click on the link

REGISTER



<https://www.acccflagship.fi/index.php/4th-accc-impact-week-2025/>

TIMETABLE

|  | TUE 22.4 | WED 23.4 | THU 24.4 | FRI 25.4 |
|---|--|--|--|---|
| 8.00-8.45 | BREAKFAST - FOR REGISTERED | | | |
| 8.45-9.00 | Opening words | | | |
| 9.00-10.00 | <u>PEEX</u> | <u>PLENARY TALK</u> <u>Bishop Kaisamari</u> <u>Hintikka</u> ROOM: AUDITORIUM | <u>PLENARY TALK</u> <u>Professor Tuukka Petäjä</u> <u>PANEL DISCUSSION</u> ROOM: AUDITORIUM | <u>PANEL DISCUSSION</u> <u>Climate change policies</u> ROOM: AUDITORIUM |
| 10.00-10.15 | <u>Safer Climate</u> | <u>Sofia Forum</u> | <u>Digital Twin</u> | |
| 10.15-10.30 | | | COFFEE | |
| 10.30-10.45 | COFFEE | | | COFFEE |
| 10.45-12.00 | <u>PEEX</u> | <u>Sofia Forum</u> | <u>Digital Twin</u> | <u>Carbon pricing</u> |
| | <u>Safer Climate</u> | | <u>ACCC RI</u> | |
| | | | <u>Sisäilma</u> | |
| 12.00-13.00 | LUNCH | LUNCH | LUNCH | LUNCH + Business lunch SIAB Suomi, invited guests / plenary speakers |
| 13.00-13.45 | ROOM: AUDITORIUM <u>PLENARY TALK</u> <u>Acad. Markku Kulmala</u> , <u>INAR University of Helsinki</u> | ROOM: AUDITORIUM <u>PLENARY TALK</u> <u>Ottmar Edenhofer, Chief Economist of the Potsdam Institute for Climate Impact Research</u> | <u>Global South</u> | <u>Co Carbon</u> |
| 13.45-14.00 | | | <u>Fuels</u> | <u>Climate Stakeholder influence</u> |
| 14.00-15.00 | <u>PEEX</u> | <u>CU</u> | <u>For Climate</u> | <u>Carbon pricing</u> |
| | <u>Oceans</u> | <u>GHG</u> | <u>BoFF</u> | |
| | <u>Safer Climate</u> | <u>Ilmasto- viestintä (IV)</u> | | |
| | | <u>Insurance & CC (ICC)</u> | | |
| 15.00-15.15 | COFFEE | | COFFEE | COFFEE |
| 15.15-16.00 | <u>FES</u> | <u>CU</u> | <u>Erko</u> | <u>BoFF</u> |
| | <u>Oceans</u> | <u>GHG</u> | <u>For Climate</u> | |
| | <u>Safer Climate</u> | <u>IV *</u> | | |
| | | <u>ICCC</u> | | |
| 16.00-16.30 | | | | |
| 16.30-17.00 | <u>Operaatio Arktis</u> | (DINNER starts 16.30) | Opportunity to interview ACCC experts | |
| 17.00--> | <u>Operaatio Arktis program and DINNER</u> | <u>DINNER including program Ilmasto-2075 & safety</u> | <u>DINNER (ACCC-SIAB)</u> | <u>Science Diplomacy</u> |



[Link to the Impact week timetable](#)

4th Atmosphere and Climate Competence Center (ACCC) IMPACT WEEK



ACCC 4 th Impact Week, April 22–25, 2025

<https://www.acccflagship.fi/index.php/4th-acc-impact-week-2025/>

ACCC Impact Week individual

SESSIONS



DATE

TUE 22. APRIL 2025



PÄIVÄ

TI 22.4.2025



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PEEX

PEEX SEMINAR

The PEEX online seminar aims to introduce the research and educational activities and projects at PEEX partner universities, and to discuss future collaboration in a frame of climate change and air quality research. The seminar includes plenary talk on Grand Challenges & Science Diplomacy by Academician Markku Kulmala and general info update about PEEX programme e.g projects and proposal in-progress by PEEX Secretary General Hanna Lappalainen and PI Alexander Mahura. New PEEX partners will introduce their organizations and research activities. We welcome all ACCC researchers who conduct research in the PEEX area to the seminar on site at the Sofia Center.



TIMETABLE

- 09:00 Session I: Welcome & Opening words, PEEX program overview
- 09:20 Session II-A: Welcome new Partners
- 10:30 Coffee/ Tea Break (10 min)
- 10:40 Session II-B: Welcome new Partners (continued)
- 11:10 Short Coffee/ Tea Break (5 min)
- 11:20 Session III: Invited presentations from PEEX Partners
- 11:50 Wrap-up & Next Steps
- 12:00 End of the PEEX seminar
- 12:00 Lunch (for onsite participants)
- 13:00 Plenary talk by Acad. Markku Kulmala



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9.00-13.00



LOCATION

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ROOM

AUDITORIUM, HYBRID

TO WHOM?



For anyone interested in the future impacts of climate change



This session is part of ACCC Impact Week

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Safer Climate

BUILDING TRANSDISCIPLINARY COLLABORATION TOWARD A SAFER CLIMATE

In this one-day workshop, organized by Safer Climate in collaboration with Historians without Borders in Finland and Rauhanlähettiläsakatemia (Peace Ambassador Academy), we look at the connections between climate change, the environment and security from a transdisciplinary perspective. Experts from research, civil society, the private sector, and security fields will share insights, discuss risks, and explore collaboration opportunities. The session includes expert presentations and joint discussions, focusing on security frameworks, power dynamics, and climate-related conflicts.



See the full timetable with all the speakers here:
<https://www.saferclimate.org/blog/safetyclimateenvironment>

TIMETABLE

- 10.00 Session 1: Science in the time of war and peace
 - *Measuring the impacts of war in Ukraine*
 - *How to find solutions to increase the dialogue and participation of the Sámi people in the impact assessment phase?*
- 12.00 Lunch and networking
- 13.00 Plenary by Prof. Markku Kulmala for all Impact Week Participants
- 14.00-16.00 Session II: What can history teach us about climate and security? Finding pathways for environmental science and action in oppressive systems



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ROOM

RESTAURANT

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Oceans

THE CHANGING ROLE OF THE OCEANS AND THE SEAS IN THE CLIMATE CHANGE DISCUSSION

Oceans have long absorbed carbon dioxide and excess heat, but their capacity may be reaching its limit, potentially turning them into greenhouse gas sources. This session brings together experts from academia, government, NGOs, and industry to explore these changes and their global impact.



Ympäristöministeriö
Miljöministeriet
Ministry of the Environment

TIMETABLE

- 14.00 Welcome & Opening words: *Sami Paatero/Tommi Juusela*
- 14.10 Oceans and Climate Change, *Professor Alf Norkko, Professor of marine ecology, Academic leader of Tvärminne Marine Research Station, University of Helsinki*
- 14.40 Baltic Sea as a test laboratory for climate impact, *Dr. Anna Villnäs, Centre for Coastal Ecosystem and Climate Change Research (CoastClim), University of Helsinki*
- 15.10 Break
- 15.30 Eutrophication in the Baltic Sea – Causes and Cures, *Dr. Ulla Rosenström, John Nurminen Foundation*
- 15.50 Tackling the climate challenge in the shipping industry – Case Neste, *Sveta Rusanen, Head of Sales & Trading, Renewable Products, Neste*
- 16.20 Commentary, *Dr. Maria Laamanen, Senior Ministerial Adviser, Ministry of the Environment*
- 16.30 Concluding words and wrap-up



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ROOM

VALBURGA



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ACCC Impact Week individual SESSION

FES

FUTURE EARTH FINLAND (FES) EVENT

The Future Earth Finland (FES) National Committee for Global Change Research brings the global change initiative, Future Earth, to Finland. You are welcome to discuss a national research network "Finnish Network of Sustainability Science" through which we could effectively convey information about different opportunities and at the same time strengthen Finnish cooperation in sustainability sciences.



TIMETABLE

- 14.00 Welcome, Introduction of FE-Finland Committee, *Hanna Lappalainen, University of Helsinki*
- 14:15 Opportunities offered by Future Earth (FE) to Finnish researchers through FE GRNs *Judit Ungvari, Future Earth (remote)*
- 14:30 Discussion on "how we can promote the active involvement of Finnish researchers in FE research networks ". *Facilitator Jaana Halonen, THL*

e.g reflections by FES members *Hannele Korhonen Finnish Meteorological Institute, Jarkko Levänen LUT University, Idil Gaziulusoy Aalto University*
- 15:00 *Coffee break*
- 15:20 "Finnish Network of Sustainability Science". On the coordination and actors of Finnish sustainability research, *Facilitator Jukka Käyhkö, University of Turku*
 - Supporting sustainability science at Higher Education Institutions - what do we learn from HELSUS? NN (tbc), HELSUS
 - Sustainability Transformations Doctoral Education pilot, Meri Löyttyniemi and Arto Salonen (10 min)
- 15:20 Discussion
- 16:00 End of the session

Future Earth (futureearth.org/networks/global-research-networks) supports the activities with over 20 different global research networks (Global Research Networks, GNR) across various fields, covering a global network of approximately 50,000 researchers. Individual networks can serve as a significant pathway to internationalization for Finnish researchers.



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AUDITORIUM



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Operaatio Arktis

TIPPING POINT RISK MANAGEMENT

Earth System Tipping Points (ESTPs) pose severe risks but are often overlooked in climate strategies due to uncertainty and poor integration into models. Effective risk management requires improved predictability, prevention-focused strategies, and preparation for adaptation where possible. This seminar discusses ESTP governance, risk mitigation, and the potential of Seabed Curtains to slow ice sheet loss.



TIMETABLE

- 16.30 Tipping Point Risk Management: Forecast, Prevent, Prepare, *Anton Keskinen & Ellen Haaslahti, OA*
- 16.50 Tipping Point Governance, *Yulia Yamineva*
- 17.20 Climate Intervention: Seabed Curtains, *John Moore*
- 17.40 Dinner
Discussion: *Markku Kulmala & Ville Voipio*



DATE

TUE 22. APRIL 2025



TIME

16.30-->



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ROOM

AUDITORIUM (DINNER AT RESTAURANT)



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SESSIONS



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PÄIVÄ

KE 23.4.2025



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ACCC Impact Week individual SESSION

Sofia Forum

Sofia Earth Forum 2025:

NÄKÖKULMIA IHMISEN JA LUONNON SUHTEESEEN

Mikä on ihmisen vastuu luomakunnassa? Miten ihmisen ja muiden eliöiden suhdetta tulisi tarkastella? Mitä uusia näkökulmia luonnontieteen ja teologian yhteistyö voi avata kestävyyskriisin ajassa? Tervetuloa kuulemaan eri kirkkokuntien ja uskontokuntien näkökulmia ja osallistumaan vuoropuheluun.

AIKATAULU

- 09:00 Esitelmä: *Kaisamari Hintikka*, Espoon piispa
10:00 Tervetuloa: *Laura Riuttanen*, Helsingin yliopisto ja *Isä Ambrosius*
10:10 Ihminen, luomakunnan ainoa vastuullinen persoona, *Risto Saarinen*, Helsingin yliopisto
10:25 Sosioekonominen metabolia, *Atte Korhola*, Helsingin yliopisto
10:40 Ekoteologisia huomioita dialogissa Aasian uskontojen kanssa, *Jyri Komulainen*, Kirkon tutkimuskeskus
10:55 Eläimen viattomuus ja ihmisen myötätunto katolisessa hengellisyydessä, *Gabriel Salmela*, Studium Catholicum
11:10 Paneeli
12.00 Lounas

PUHUJAT



Kaisamari Hintikka
Espoon piispa



Laura Riuttanen
Helsingin
yliopisto



Isä
Ambrosius



Risto Saarinen
Helsingin
yliopisto



Atte Korhola,
Helsingin
yliopisto



Jyri Komulainen,
Kirkon tutkimus
ja koulutus



Gabriel Salmela,
Studium
Catholicum



PÄIVÄ

KE 23.4.2025



KELLONAIKA

9.00-12.00



SIJAINTI

KULTTUURIKESKUS SOFIA

Kallvikinniementie 35,
00980 Helsinki



HUONE

AUDITORIO

KENELLE?



Kaikille uusista
näkökulmista
kiinnostuneille



Sessio on osa ACCC Impact
Week -tapahtumaa

Ilmoittautuminen
(9.4.2025 mennessä)
linkistä

REGISTER

<https://elomake.helsinki.fi/lomakkeet/133534/lomake.html>



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4th IMPACT WEEK

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ACCC Impact Week individual SESSION

Digital Twin

CLIMATE DIGITAL TWIN: GLOBALLY CONSISTENT EARTH SYSTEM AND IMPACT SECTOR INFORMATION AT SCALES OF A FEW KILOMETERS

This hybrid session introduces Destination Earth (DestinE), a flagship initiative of the European Commission that develops a digital replica of the Earth. The session focuses on the Climate Change Adaptation Digital Twin (Climate DT), one of DestinE's core components, showcasing the capabilities of digital twin technology and the practical ways it can support climate change adaptation, mitigation, and decision-making.



TIMETABLE

- 10.00** 1st part of the session: Overview of DestinE and Digital Twins
 - Welcome, *Jenni Kontkanen, CSC*
 - Overall status of the initiative DestinE - *Sebastian Milinski, ECMWF*
 - Climate DT overview objectives, models and simulations, *Theresa Kiszler, CSC*
- 10.30** Break
- 10.45** 2nd part of session: A closer look at Climate DT applications
 - On-Demand Weather-Induced Extremes Digital Twin, *Niko Sokka, FMI*
 - Off-shore wind power use case, *Aleksi Nummelin, FMI*
 - Wildfire use case, *Joonas Kolstela, FMI*
 - Harvester use case, *Mikko Strahlendorf, FMI*
 - Observation based verification, *Lauri Tuppi, University of Helsinki*
- 12.00** Session ends



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WED 23 APRIL 2025



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10.00-12.00



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ROOM

VALBURGA, HYBRID



TO WHOM?

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ACCC Impact Week individual SESSION

GHG

GREENHOUSE GASES REGULATORY ECOSYSTEM SERVICES IN CATCHMENTS

Catchments play a key role in regulating atmospheric CO₂ and other climate-relevant gases, with water fluxes influencing organic matter and nutrient transport. This session brings together projects on the terrestrial-aquatic continuum, particularly those funded by Water4All 2023, to discuss greenhouse gas fluxes and ecosystem services. The program includes project presentations followed by a discussion on potential collaborations and future research directions.



TIMETABLE

| | |
|-------|--|
| 13.00 | Plenary talk: Ottmar Edenhofer |
| 14.05 | Opening words, <i>Jukka Pumpanen</i> |
| 14.20 | Developing concepts for large-scale modelling and evaluation of aquatic ecosystem services in forested landscapes, <i>Martin Forsius, SYKE</i> |
| 14.35 | Co-creating pathways to desirable nature futures of temperate lakes, <i>Eerika Albrecht, SYKE</i> |
| 15.00 | Coffee break |
| 15.20 | Impacts of climate, N and P deposition and land use on water as a driver of the greenhouse gases regulatory ecosystem service in headwater catchments. <i>SERVICO2, Lluís Camarero, CEAB-CSIC, Spain</i> |
| 15.35 | Biogenic Volatile Organic Compound Emissions from Northern Rivers <i>RIVERVOC, Jukka Pumpanen, UEF</i> |
| 15.50 | Joint discussion and possible follow-up |
| 16.00 | Closing the session |



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ROOM

TEKLA, HYBRID



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ACCC Impact Week individual SESSION

Insurance and CC

AKTUAARIYHDISTYS ILMASTOKOULUTUS

Insurance must go beyond reacting to risks and proactively adapt to major changes like climate change to protect both companies and policyholders. Without adaptation, increasing extreme weather events could lead to coverage gaps, making some risks uninsurable. This session brings together ACCC researchers and insurance mathematicians to discuss emerging risks, industry challenges, and future developments.



SPEECHES

- Summer Convective Weather Storm in Finland, *Antti Mäkelä tai Terhi Laurila (IL)*
- Kaupunkitulvat, *Tom Kokkonen (HY)*
- Ilmastoasiantuntijan erikoiskoulutus aktuaarin näkökulmasta, *Toni Blomster (Finanssivalvonta)*
- Innovations in Insurance in a changing Climate – real world example, *Toby Behrmann (Axa Climate)* (remote presentation)
- Introduction to PIISA insurance pilots and the idea of piloting, *Heikki Tuomenvirta (IL)*



DATE

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ROOM

MARINA



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Science Diplomacy

SCIENCE DIPLOMACY

This session is a brief overview on science diplomacy specifically in the context of climate and air quality research. How does science diplomacy work? Who can take part in it? What kind of challenges and opportunities does it provide for research and social impact? Join us in discussing the current science diplomacy activities in ACCC and share your experiences and ideas.



The meeting includes discussion on new volunteering tasks related to European Union Science Diplomacy Alliance in INAR, so we specifically welcome those who have expressed their interest already or want to learn more about that. If you are interested in the task but not affiliated with INAR, please contact rosa.rantanen@helsinki.fi for more information.



DATE

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15.00-16.00



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ROOM

TERESA



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EDUCATION FOR GREEN SKILLS, CLIMATE UNIVERSITY

Education is the key to the sustainability transition of our societies. How do we educate the work force to future skills? What are the skills needed? Who needs them? How do we organize the education in an effective and impactful way?

In this session, national and international perspectives are shared by keynote speakers, followed by Climate University Action Group meetings in hybrid small groups.

TIMETABLE

- 13.00 Plenary talk: Ottmar Edenhofer
- 14.00 Panel discussion: Education for green skills
 - Romain Boitard, European Training Foundation
 - Mikko Vieltojärvi, Confederation of Finnish Industries
 - Taina Ruuskanen, University of Helsinki
 - Miika Marttila, LUT University
 - moderated by Laura Riuttanen, University of Helsinki
- 15.15 Climate University Action Group meetings
- 16.30 Dinner

SPEAKERS



Chief Economist
Ottmar Edenhofer



Romain Boitard,
European Training
Foundation



Mikko Vieltojärvi,
Confederation of
Finnish Industries



Taina Ruuskanen,
University of Helsinki



Miika Marttila,
LUT University



Laura Riuttanen
University of Helsinki



DATE

WED 23 APRIL 2025



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13.00-16.30 + DINNER



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ROOM

AUDITORIUM, HYBRID



TO WHOM?

To anyone interested in
sustainability education



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Ilmastoviestintä

NÄKÖKULMIA VAIKUTTAVAAN ILMASTOVIESTINTÄÄN

Ilmastonmuutos koskettaa meitä kaikkia – mutta tavoittaako ilmastoaiheinen viestintä eri yleisöt? Tässä tilaisuudessa eri toimijat jakavat kokemuksiaan ja parhaita käytäntöjään: mikä tekee viestinnästä vaikuttavaa ja ymmärrettävää? Miten eri kohderyhmät voi huomioida? Tule kuulemaan, keskustelemaan ja hakemaan uusia oivalluksia ilmastoviestintään!

AIKATAULU

- 14.00 Tilaisuuden avaus ja puheenvuorot
- Ilmastoviestintää ihmismielelle, **tutkija, tietokirjailija Mira Hulkkonen, Ilmatieteen laitos**
 - Ilmastoviestintää kaupunkilaisille, **viestintäpäällikkö Anu-Liisa Rönkä, Lahden kaupunki**
 - Toimittajan näkökulma: HS Lasten uutisten ilmastojutut, **esihenkilö Fanny Fröman, HS Lasten uutiset**
 - Ilmastoviestinnän haasteet ja mahdollisuudet sosiaalisessa mediassa, **nuorten ilmastodelegaatti Saara Böök**

-15 minuutin kahvitauko-

15.20 Keskustelua

16.00 Yhteenveto ja tilaisuuden päätös



PÄIVÄ

KE 23.4.2025



KELLONAIKA

14.00-16.00



SIJAINTI

KULTTUURIKESKUS SOFIA

Kallvikinniementie 35,
00980 Helsinki



HUONE

VALBURGA



KENELLE?

Kaikille ilmastoaiheista viestiville

Sessio on osa ACCC Impact Week -tapahtumaa

Ilmoittautuminen
(9.4.2025 mennessä)
linkistä

[REGISTER](#)

<https://elomake.helsinki.fi/lomakkeet/133534/lomake.html>

Kuvaajatiedot:
Miran kuva: Valokuvaajamestari Reijo Koirikivi
Saaran kuva: Nuorisoala



[Link to the Impact week timetable](#)

4th Atmosphere and Climate Competence Center (ACCC) IMPACT WEEK



ACCC 4th Impact Week, April 22–25, 2025

<https://www.acccflagship.fi/index.php/4th-accc-impact-week-2025/>

ACCC Impact Week individual SESSION

Ilmasto 2075

ILMASTO 2075 - PÄIVÄLLISBUFFET

Miten ilmastonmuutos vaikuttaa maailmaamme ja Suomeen tulevaisuudessa? Onko odotettavissa täyttä kaaosta, vai onko ihmiskunnalla sittenkin toivoa? Ilmasto 2075 tilaisuudessa asiantuntijat puhuvat ilmastomuutoksen laaja-alaisista vaikutuksista yhteiskunnan eri osa-alueisiin: ruokaan, työhön, talouteen, terveyteen ja globaaliin turvallisuuteen.

AIKATAULU

16.30 —→ Buffet-päivällinen

17.00-17.20 Ilmasto, biodiversiteetti ja turvallisuus, akateemikko Markku Kulmala, ACCC

17.20-17.40 Muutama sana tulevaisuudesta, futuristi Elina Hiltunen, ACCC

17.40-18.20 Paneeli Ilmastonmuutos 2075 – miten ilmastonmuutos vaikuttaa yhteiskuntamme eri sektoreille tulevaisuudessa?

PUHUJAT



Markku Kulmala
Akateemikko



Elina Hiltunen
Futuristi

PANELISTIT



Maaria Parry
Johtava ilmastoasiantuntija,
ELY-keskusten valtakunnallinen
ilmastoyksikkö



Seija Parvinen
Vanhempi ekonomisti
Suomen Pankki



Emma Hakala
Johtava tutkija,
Ulkopoliittinen instituutti



Reija Ruuhela
Ilmastoasiantuntija,
meteorologi, Ilmatieteen laitos



Kerttu Kotakorpi
Luontotoimittaja, tieto-
kirjailija, meteorologi



Pekka Moren
finanssineuvos,
Valtiovarainministeriö ja VNK



PÄIVÄ

KE 23.4.2025



KELLONAIKA

16.30-18.20



SIJAINTI

SOFIA KULTTUURIKESKUS
Kallvikinniementie 35,
00980 Helsinki



HUONE

RAVINTOLA

KENELLE?



Kaikille ilmastonmuutoksen
tulevaisuuden vaikutuksista
kiinnostuneille



ILMASTO 2075 on osa ACCC
Impact Week -tapahtumaa

Ilmoittautuminen
(9.4.2025 mennessä)
linkistä

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ACCC Impact Week individual

SESSIONS



DATE

THU 24. APRIL 2025



PÄIVÄ

TO 24.4.2025



[Link to the Impact week timetable](#)

4th Atmosphere and Climate Competence Center (ACCC) IMPACT WEEK



ACCC 4th Impact Week, April 22–25, 2025

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ACCC Impact Week individual SESSION

Sisäilma

SISÄILMA JA ENERGIATEHOKKUUS – TIEDÄMMEKÖ MITÄ EMME TIEDÄ?

Uusittu rakennusten energiatehokkuusdirektiivi tuo kasvihuonepäästöjen ja energian lisäksi hienosti esille hyvän sisäympäristön laadun. Sisäilma on tärkeä osa sisäympäristöä. Mutta miltä hyvä näyttää ja miten eri asiat vaikuttavat toisiinsa?

Tätä pohdimme yhdessä tutkijoiden, yritysedustajien, vaikuttajien ja päättäjien kanssa. Tavoitteena myös tunnistaa konkreettisia tekoja, joilla asiaa edistetään.

Tilaisuuden juontaa Minna Väkevä.

Kirsikkana kakun päällä: ajatteluamme tulee härnäämään futuristi Elina Hiltunen.



AIKATAULU

- 8-8.45 Aamiainen – vaatii ilmoittautumisen
- 9.00 Tervetuloa
- 9.05 The new outdoor Air Quality Directive - opportunities and challenges. Prof. Tuukka Petäjä
- 9.25 Asiantuntijat lavalla: Heidi Salonen (Aalto), Vesa Pekkola (sosiaali- ja terveysministeriö), Pekka Vuorinen (Rakennusteollisuus RT), Miia Pitkäranta (AFRY), Jukka Vasara (Granolund) ja Tuukka Petäjä (ACCC)
- 10.20 Työpajat pienryhmissä. Tarjolla kahvia ja teetä.
- 11.15 Haastamme asiantuntijat ja itsemme. Ole valmis puolustamaan ja kyseenalaistamaan näkemyksiäsi. Oivaltavuus palkitaan! Erityiskommentteja mm. Topi Rönkkö (Tampereen yliopisto) ja Hanna Leppänen (Rakennustieto) ja Ilkka Salo (Talteka)
- 12.00 Tilaisuus päättyy
- 12-13 Lounas – vaatii ilmoittautumisen



PÄIVÄ

TO 24.4.2025



AIKA

9.00-12.00



SIJAINTI

SOFIA KULTTUURIKESKUS

Kallvikinniementie 35,
00980 Helsinki



HUONE

AUDITORIO (JA RAVINTOLA)



KENELLE

Kaikille

ilmastonmuutoksesta ja sisäilmasta kiinnostuneille

ILMASTO 2075 on osa ACCC Impact Week -tapahtumaa

Ilmoittautuminen
(9.4.2025 mennessä)
linkistä

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ACCC Impact Week individual SESSION

ACCC RESEARCH INFRASTRUCTURES

ACCC RI

European environmental research infrastructures (RIs) are vital in providing reliable and continuous long-term data of the Earth system. In this session RI experts and stakeholders provide their views on the significance of the RIs related to RI interoperability, benefits, added value and impact.

SMEAR II (Station for Measuring Ecosystem-Atmosphere Relations) © Juho Aalto



MINISTRY OF
EDUCATION AND CULTURE
FINLAND

Research Council
of Finland

TIMETABLE

- 10.15 Coffee
- 10.30 Start of the session – Welcome
- 10.35 Opening words, *Erja Heikkinen, Ministry of Education and Culture, Merja Särkioja, Research Council of Finland*
- 10.50 Short comments/presentations from environmental RI representatives
 - ACTRIS ERIC (Eija Juurola): Environmental RIs, the ACTRIS perspective – benefits to the scientific community and beyond
 - ICOS ERIC (Emmanuel Salmon): The ERIC Trilogue: A new platform for collaboration?
 - eLTER (Jaana Bäck): Fostering interoperability in ecological and socio-ecology research: The role of eLTER infrastructure
 - AnaEE (Jutta Kauppi): Collaboration and growing impact together- Connectivity of experimental RI's with nature-based risks
- 11.20 Panel discussion
- 11.50 Concluding words and wrap-up
- 12.00 Session closes



DATE
THU 24.4.2025



TIME
10.30-12.00



LOCATION
SOFIA CULTURAL CENTER
Kallvikinniementie 35,
00980 Helsinki



ROOM
VALBURGA



TO WHOM?
For anyone interested in
the future impacts of
climate change

This session is part of ACCC
Impact Week

Registration
(by April 9, 2025)
at the link

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ACCC Impact Week individual SESSION

Global South

GLOBAL SOUTH COLLABORATION IN ACCC

The aim of this meeting is to map out ongoing activities and strengthen our Global South collaboration within ACCC. This will help us to improve our understanding of the current state, future possibilities and challenges regarding Global South collaboration within ACCC. The workshop consists of brief introductory talks on ACCC Global South collaboration, the World Academy of Sciences (TWAS) collaboration and joint discussion.

The meeting is open for all interested participants. Before the event, we invite all ACCC researchers & other staff members to participate this short survey (3-5 min) about your activities and interests regarding Global South collaboration.



SPEECHES

- Introduction to Global South collaboration within ACCC & the World Academy of Sciences (TWAS) collaboration, *Markku Kulmala, ACCC Director, INAR*
- A brief overview on ongoing activities
- Results of the survey and discussion: defining next steps together, *Rosa Rantanen, Research Coordinator, INAR*



DATE
THU 24.4.2025



TIME
13.00-14.00



LOCATION
SOFIA CULTURAL CENTER
Kallvikinniementie 35,
00980 Helsinki



ROOM
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ACCC Impact Week individual SESSION

CO-CARBON PROJECT

Co-Carbon

RECENT FINDINGS ON URBAN CARBON CYCLE AND SINKS

Urban green infrastructure plays a key role in climate change mitigation and adaptation at the same time when having other benefits. Vegetation and soil store atmospheric carbon, modify local climate conditions, enhance stormwater cycling, and increase human well-being. CO-CARBON project studies carbon-smart urban green infrastructure from multiple perspectives and focuses, for example, on quantifying and modelling carbon sequestration and storage in urban green areas and examining the planning of carbon-smart urban green infrastructure from city-level to individual green spaces. This seminar presents some recent findings of the project.



TIMETABLE

- 13.00 Overview of the CO-CARBON project, *Leena Järvi, University of Helsinki*
- 13.10 Quantifying city-wide CO2 sinks using urban land surface modelling, *Minttu Havu, University of Helsinki*
- 13.25 Unveiling Landscape Life Cycle Assessment: towards holistic understanding of carbon flows in urban green spaces, *Caroline Moinel, Aalto University*
- 13.40 Biogenic Carbon sequestration in cities: applying scalable, cost-effective and science-based models to support services and end-users, *Liisa Kulmala, Finnish Meteorological Institute*
- 14.00 Session closes



DATE
THU 24.4.2025



TIME
13.00-14.00



LOCATION
SOFIA CULTURAL CENTER
Kallvikinniementie 35,
00980 Helsinki



ROOM
TERESA, HYBRID



TO WHOM?



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ACCC Impact Week individual SESSION

Fuels

CLEAN TRANSPORT WITH NEW FUELS AND TECHNOLOGIES

To achieve the Green Deal's climate targets and the zero pollution vision by 2050, the transport sector must implement significant changes. Electrification is essential, but heavy-duty transport, non-road mobile machinery, shipping, and aviation will still rely on combustion technologies, categorized as hard-to-electrify transport modes. Decarbonizing these sectors involves switching from fossil fuels to low-carbon biofuels or electrofuels like methane, alcohols, diesel, jet, and marine fuels. At the same time, changing air quality regulations and increasing understanding of unregulated pollutants pose novel challenges for emission research.



Image by AI

TIMETABLE

- 13:00 Topi Rönkkö & Miikka Dal Maso: Introduction
- 13:05 Päivi Aakko-Saksa: PAREMPI - Particle emission prevention and impact: from real-world emissions of traffic to secondary PM of urban air
- 13:25 Olli Sippula: LowC - Safe and sustainable low-carbon fuels for heavy-duty, aviation, and maritime sectors
- 13:35 Kati Lehtoranta: Green Ray - New Generation marine engines and retrofit solutions to achieve methane abatement flexibility
- 13:55 Ismael Ortega: UNIC - Understanding non-CO2 Impact for decarbonized aviation
- 14:15 Miikka Dal Maso: REALCHEM - Real-world emission experiments and comprehensive assessment of low-carbon fuels: towards clean hard-to-electrify transport modes
- 14:30 Discussion: Exploring collaboration actions for projects researching clean and climate-friendly transport
- 15:00 Coffee



DATE

THU 24.4.2025



TIME

13.00-15.00



LOCATION

SOFIA CULTURAL CENTER

Kallvikinniementie 35,
00980 Helsinki



ROOM

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ACCC Impact Week individual SESSION

Boff

CLIMATE AND AIR QUALITY IMPACTS OF BOREAL FOREST FIRES (BOFF)

Workshop on the project "Climate and air quality impacts of boreal forest fires (BoFF)" funded by the Jane and Aatos Erkko foundation. In the seminar, results from the project so far will be presented. Another aim of the workshop is to discuss how the results can be best utilized in e.g. modelling etc. Stakeholders from Metsähallitus will be invited. Workshop can be partly online. More information from Annele Virtanen.



TIMETABLE

14:00 Welcome, opening words

- Annele Virtanen, UEF: "Introduction to the "Climate and Air Quality Impacts of Boreal Forest Fires" -project"

14:10 Short comments/presentations from BOFF (max 10 min/ presentation)

- Aurora Prättälä, Metsähallitus: "Restoration burns – what and why"
- Iida Pullinen, UEF: "Into the Fire – field measurements of forest fire emissions"
- Kajar Köster, UEF: "From flames to flow - the effect of prescribed fires on biogeochemical processes"
- Tero Mielonen, FMI: "Wildfire emissions in climate models"
- Olli Sippula, UEF: "Laboratory measurements: an efficient tool for characterizing wildfire emissions"

15:00-15:15 Coffee break

15:15 Joint/panel discussion (how to increase the impact and reach a wider audience)

15:50 Concluding words and wrap-up



DATE

THU 24.4.2025



TIME

14.00-16.00



LOCATION

SOFIA CULTURAL CENTER

Kallvikinniementie 35,
00980 Helsinki



ROOM

RESTAURANT, HYBRID



TO WHOM?



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ACCC Impact Week individual SESSION

ForClimate

MANAGING FORESTS FOR CLIMATE CHANGE MITIGATION

Forests are important for climate change mitigation as they store carbon and produce atmospheric aerosol particles. Although these climate impacts are well recognized, knowledge is lacking on how forest management impacts them. In this seminar, followed by a panel discussion, latest results on the comprehensive climate impacts of forests and the effect of forest management on them will be shared.

14:00 Anna Lintunen: Managing Forests for Climate Change Mitigation

14:10 Ivan Mammarella: Thinning turned boreal forest to a temporary carbon source - short term effects of partial harvest on carbon dioxide fluxes

14:20 Helena Rautakoski: Continuous cover forestry in nutrient-rich peatland forest: Effects of selection harvesting on forest CO2 balance

14:30 Gonzalo de Quesada: Thinning Effects on Forest Carbon Balance Across Mineral and Peatland Soils: Evaluating the Carbon Budget with Biometrics and Soil Chambers

14:40 Otso Peräkylä: Differences in absorbed sunlight between forest and open peatland sites caused by snowmelt timing

14:50 Ekaterina Ezhova: Linking forests and clouds: organic aerosol enhances forest photosynthesis under cloudy sky

15:00 Coffee break

15:15 Markku Kulmala: Comprehensive climate impacts of forests

15:25 Piaopiao Ke: Potential of carbon uptake and local aerosol production in boreal and hemi-boreal ecosystems across Finland and in Estonia

15:35 Topi Laanti: Explainable AI for modeling boreal forest carbon exchange

15:45 Daesung Lee: MOTTI model portfolio enhancements: tackling contemporary forest growth issues in Finland

15:55 Ritika Srinet: Bayesian calibration of process-based model PREBAS using multi-source data

16:05 Jari Hynynen: Motti C+, new modelling tool to support adaptation of forest management to changing climate

16:15 Panel discussion on the future possibilities related to the climate impacts of forests.

Panelists: **Annalea Lohila** (Finnish meteorological institute, chair),

Markku Kulmala (University of Helsinki), **Jari Hynynen** (Luke), **Martin**

Forsius (SYKE), **Karoliina Niemi** (Metsäteollisuus ry), **Anssi Kainulainen**

(MTK) and **Kalle Eerikäinen** (Metsähallitus).



DATE

THU 24.4.2025



TIME

14.00-17.00



LOCATION

SOFIA CULTURAL CENTER

Kallvikinniementie 35,
00980 Helsinki



ROOM

AUDITORIUM, HYBRID



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4th IMPACT WEEK

Atmosphere and Climate Competence Center (ACCC)



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<https://www.acccflagship.fi/index.php/4th-acc-impact-week-2025/>

ACCC Impact Week individual SESSION

Erko

HY ERKO ETÄLUENTO



Helsingin yliopiston järjestämän ilmastoasiantuntijan erikoistumis-koulutuksen toukokuun etätapaaminen, jossa käydään läpi kaksi toimialakohtaista katsausta ilmastotyöhön ja keskustellaan alojen ilmastotyön näkökulmista yhdessä alalla toimivien asiantuntijoiden kanssa.



PÄIVÄ

TO 23.4.2025



KELLONAIKA

15.00-17.00



SIJAINTI

KULTTUURIKESKUS SOFIA

Kallvikinniementie 35,
00980 Helsinki



HUONE

TERESA, HYBRID



KENELLE?



Suljettu tapaaminen

Sessio on osa ACCC Impact Week -tapahtumaa

Ilmoittautuminen
(9.4.2025 mennessä)
linkistä

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ACCC Impact Week individual

SESSIONS



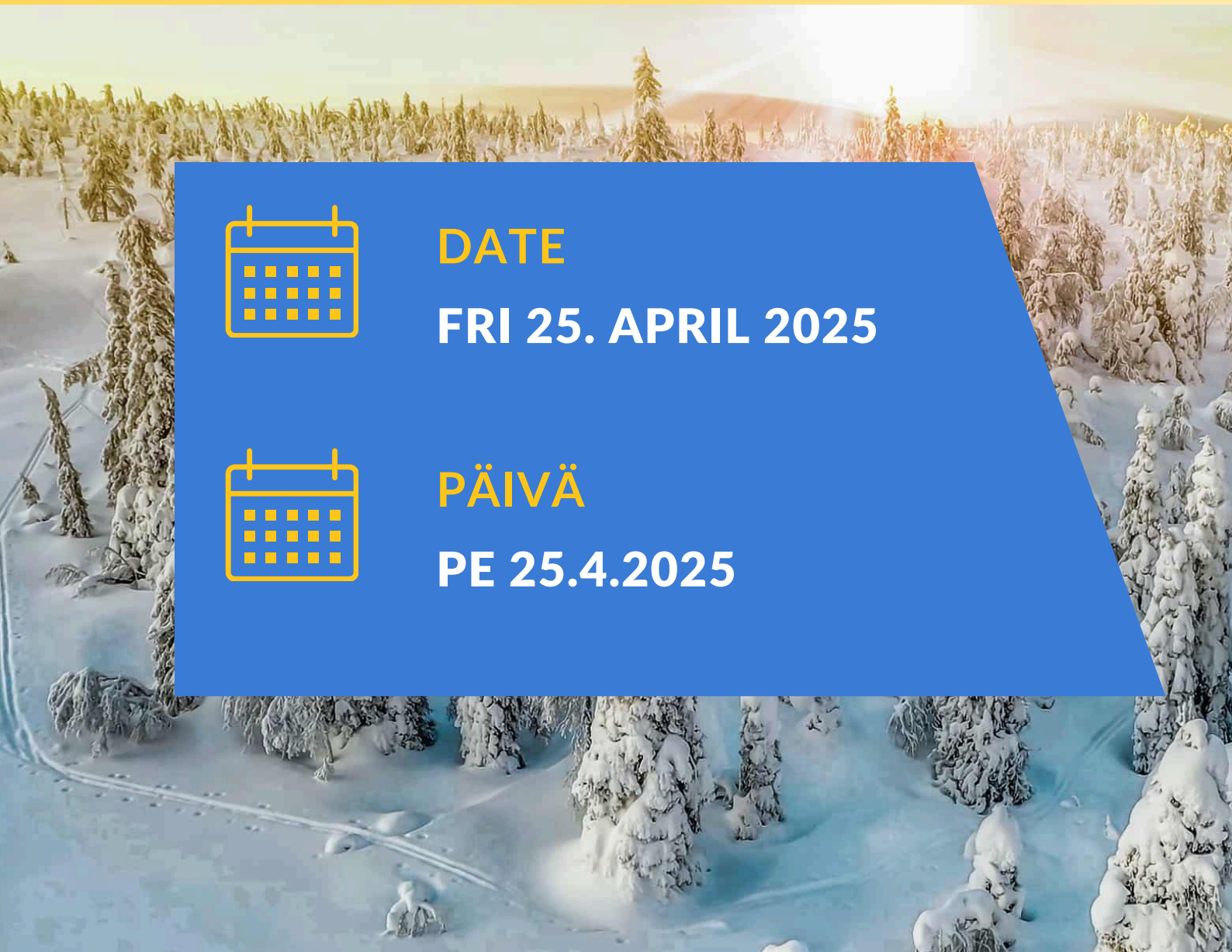
DATE

FRI 25. APRIL 2025



PÄIVÄ

PE 25.4.2025





[Link to the Impact week timetable](#)



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ACCC Impact Week individual SESSION

Climate Change Policies

IMPACT AND EFFECTIVENESS OF POLICIES AND MEASURES TO COMBAT CLIMATE CHANGE

Finland and the EU have tackled climate change through regulations, emissions trading, and voluntary measures. This session will explore their effectiveness, discuss future challenges like carbon sinks, and identify how ACCC research can drive impactful solutions. Join us for insights and engaging discussions!



TIMETABLE

| | |
|-------|---|
| 9.00 | Introduction: Economic instruments, compulsory norms and voluntary measures to curb climate change, <i>Matti Vainio, University of Helsinki</i> |
| 9.15 | Household-level responses to fossil fuel pricing, <i>Prof. Lassi Ahlvik, University of Helsinki</i> |
| 9.30 | Emissions trading as a steering tool for climate policy, <i>Eleonoora Eilittilä, Ministry of Economic Affairs and Employment</i> |
| 9.45 | Economics of policy measures in increasing forestry carbon sinks, <i>Olli Tahvonon, University of Helsinki</i> |
| 10.00 | Panel discussion with Q & A |
| 10.30 | Conclusions |
| 10.45 | Close of session |



DATE

FRI 25.4.2025



TIME

9.00-10.45



LOCATION

SOFIA CULTURAL CENTER

Kallvikinniementie 35,
00980 Helsinki



ROOM

AUDITORIUM



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ACCC Impact Week individual SESSION

Carbon Pricing

SCIENTIFIC CLIMATE IMPACT DATA FOR EFFICIENT CARBON PRICING

Global climate change demands international collaboration and coordinated actions, such as accelerating carbon markets and developing subsidy policies based on scientific research. It is crucial that policy actions are grounded in reliable environmental data and multi-dimensional analysis to ensure a just transition towards sustainable living. This event aims to foster dialogue on efficient carbon pricing approaches leading up to COP30 in Brazil.



TIMETABLE

Host: Adviser Sami Paatero, ACCC

- 11.00 Welcome words, from *Sari Multala, Minister of Climate and the Environment, Finland (by video)*
- 11.10 Climate Impact in Global Economic Policy Context, Financial Counsellor *Pekka Morén, Prime Minister's Office/Ministry of Finance, Finland*
- 11.30 Carbon pricing – importance of industry standards, CEO *Tuuli Kaskinen, CLC*
- 11.50 Investment Sector Approach, Vice Chairman, Banking & Public Sector *Jay Collins, Citi*
- 12.15 Lunch
- 13.00 Research Infrastructures and Available Atmospheric Data from the ACCC, *Professor Tuukka Petäjä*
- 13.30 Data to Drive Climate Action – Current Efforts by the New York Climate Exchange, CEO *Dr. Stephen Hammer*
- 14.00 Panel Discussion: Climate impact in business environment - from compliance to scalable added value: *Pekka Moren, Tuuli Kaskinen and Tuukka Petäjä*
- 15.00 Wrap-up of the ACCC impact week by *Markku Kulmala*
- 15.15 Coffee



DATE

FRI 25.4.2025



TIME

11.00-15.00



LOCATION

SOFIA CULTURAL CENTER

Kallvikinniementie 35,
00980 Helsinki



ROOM

AUDITORIUM, HYBRID



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ACCC Impact Week individual SESSION

Climate Stakeholder Influence

HOW CAN STAKEHOLDERS, ESP. SCIENTISTS, PARTICIPATE IN AND INFLUENCE CLIMATE POLICYMAKING?

Climate policymaking, while state-led, increasingly involves diverse stakeholders, including scientists, through various levels of institutionalization, each playing roles from enhancing legitimacy to providing expertise. Scientists are crucial in this process, yet their voices aren't always fully heard, and Western science often overshadows indigenous knowledge. This session aims to explore these dynamics, focusing on the influence of scientific panels and the integration of science in Finnish climate policy, including voluntary carbon offsetting and the Sámi Climate Council, followed by a discussion on diverse perspectives.

TIMETABLE

On the influencer-role of scientific climate panels
Katri Varis, Doctoral Researcher, UEF

On science and participation: the case of Finnish Climate Act and climate litigation case II, *Otto Bruun, Doctoral Researcher, UEF*

Preparation of voluntary carbon offsetting as an example of the influence of science and stakeholders on climate policymaking, *Sara Tolonen, Doctoral Researcher, UEF*

The new Saami Climate Council: Re-thinking the role of science and participation in Finnish climate policymaking, *Senior Lecturer Tuula Honkonen, UEF*

Invited comment talks:

Niko Humalisto, Leading Advocacy Specialist, Finnish Evangelical Lutheran Mission (FELM) and Docent on social geography, UEF

Laura Höijer, Research Director, Ministry of the Environment

Klemetti Näkkäläjärvi, Chair of the Saami Climate Council

Discussion



DATE
FRI 25.4.2025



TIME
13.00-15.00



LOCATION
SOFIA CULTURAL CENTER
Kallvikinniementie 35,
00980 Helsinki



ROOM
VALBURGA



TO WHOM?



For anyone interested in the future impacts of climate change

This session is part of ACCC
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