

Workshop "Climate Change and Insurance" – CCI 2024

Vienna, Wed–Fri, September 4–6, 2024

Wednesday, September 4, 2024

08:30 – 09:00 **Registration**

09:00 – 09:10 **Opening Remarks**

09:10 – 10:00 **M. Carmen Boado-Penas** "Climate emergency: understanding the risks"

10:00 – 10:50 **Ralf Korn** "Optimal investment with sustainable assets – aspects for life insurers"

Coffee Break

Parallel Session 1 "Decarbonization"

Room B – 2nd floor, yellow area

11:10 – 11:35 **Zehra Eksi-Altay** "Regime switches in carbon emission allowance prices"

11:35 – 12:00 **Tomer Shushi** "Integrating socially responsible criteria in modern portfolio theory via a tradeoff between focusing on the data of stock returns and their ESG scoring"

12:00 – 12:25 **Zhongyi Yuan** "Emission-conscious investment and internal carbon price: a case for insurers"

Parallel Session 2 "Taxation"

Room A – 1st floor, red area

11:10 – 11:35 **Fallou Niakh** "Risk sharing and taxation"

11:35 – 12:00 **Daive Trevisani** "Scope 3 capital design for carbon-emissions-facilitation tax risk"

12:00 – 12:25 **Rüdiger Frey** "Random carbon tax policy and investment into emission abatement technologies"

Lunch Break

13:25 – 13:50 **Christoph Krischanitz** "Under the radar screen: creeping developments in claim behaviour"

13:50 – 14:15 **Anselm Fleischmann** "How to deal with spurious accuracy in actuarial calculations targeting climate change"

Short Break

Parallel Session 3 "Resilience and Finance"

Room B – 2nd floor, yellow area

14:20 – 14:45 **Marcello Galeotti** "A quantitative model of green transition resilience bonds"

14:45 – 15:10 **Stefan Wrzaczek** "A model-based measure for the resilience of resource use under the risk of disruption"

15:10 – 15:35 **Sascha Desmettre** "Comparing factor models for different periods of the electricity spot price market"

15:35 – 16:00 **Cem Yavrum** "Assessing the applicability of the Actuaries Climate Index within weather derivatives framework"

Parallel Session 4 "Climate-related Risks"

Room A – 1st floor, red area

14:20 – 14:45 **Michelle Dong** "Actuarial perspectives on climate-related risks"

14:45 – 15:10 **Michaela Bundschuh** "Biodiversity in a nutshell – requirements, challenges and solutions"

15:10 – 15:35 **George Tzougas** "Investigating the effect of climate-related hazards on claim frequency prediction in motor insurance"

15:35 – 16:00 **Aleksandar Arandjelović** "Generating stochastic temperature scenarios for actuarial climate stress testing: A deep least-squares Monte Carlo approach"

Coffee Break

Mini-Workshop "AI in Climate Change"

16:20 – 18:00 **Hirbod Assa and Navid Parvini** "Textual analysis in agriculture commodities market"

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Thursday, September 5, 2024

9:00 – 09:50 **Robert Holzmann** "Damages by extreme weather and the case of insurance"

Short Break

10:00 – 11:30 **Panel Discussion** "Climate Change and Insurance: Past, Present and Future"
Moderator: Reinhold Kainhofer

Lunch Break **Business Lunch**

13:15 – 14:05 **Frank Schiller** "Climate change and social aspects – What are our priorities?"

14:05 – 14:45 **Emmanuel Gobet** "An efficient SSP-based methodology for assessing climate risks of a large credit portfolio"

Coffee Break

Session 5 "Catastrophic Events"

15:05 – 15:30 **Corinna Perchtold** "A non-stationary spatio-temporal precipitation model for Austria"

15:30 – 15:55 **Alaric Müller** "Pluvial flood risk modelling using flood risk maps and an advanced stochastic weather generator: the case of Austria"

15:55 – 16:20 **John Ery** "A parametric-modelled loss type CAT bond"

16:20 – 16:45 **Roberto Carcache Flores** "Mitigating flood risk with CAT bonds: a New Orleans case study"

16:45 – 17:10 **Matteo Malavasi** "The impact of extreme weather events on pro-environmental beliefs and actions in Australia"

Friday, September 6, 2024

09:00 – 09:50 **Chris Kenyon** "The price of permanence Mitigation-Duration Forwards (MDFs)"

09:50 – 10:40 **Jose Garrido** "Actuarial climate indexes: international comparative study and insurance applications"

Coffee Break

Session 6 "Climate change: Life, Health, Pensions"

11:00 – 11:25 **Alexander Krauskopf** "Global warming and health insurance claims"

11:25 – 11:50 **Johanna Suppan** "On the correlation between extreme weather events and hospital admissions in Austria"

11:50 – 12:15 **Jens Robben** "The association between environmental variables and mortality: evidence from Europe"

12:15 – 12:40 **Ivan Alexis Fonseca Diaz** "An intergenerational RICE model approach to assess the impact of climate change on social security systems under shared socioeconomic pathways"

12:40 – 13:05 **Jean René Mwizere** "A sustainable approach to retirement investing for the long haul"

13:05 – 13:15 **Closing Remarks**