

State of the Environmental Health in Europe

– For a sustainable future

Program

09:00 - 09:15	<i>Opening Session</i>	<p>Welcome by Vice Chancellor Johan Schnürer, Örebro University.</p> <p>Introduction by Director General Per Ängquist, Swedish Chemicals Agency (KemI) and</p> <p>Professor Robert Barouki, Inserm-Université Paris Cité, Paris, France.</p>
09:15 - 10:30	<i>Panel Discussion</i>	<p>Bridging research and management gaps between biodiversity loss, climate change and chemical pollution</p> <p><i>Moderated by Dr. Kateřina Šebková, Director of the National Centre of Toxic Compounds and of the Stockholm Convention Regional Centre for capacity building and the Transfer of Technology, Czech Republic</i></p> <p>Introduction to the session by Dr. Šebková. The focus is on the challenges in terms of climate impact, loss, and changes to biological diversity, as well as environmental pollution's health impact and effects on animals and nature and the way this contribute to a global social and health crisis. These challenges originate in a deeper societal crisis where man's overexploitation of nature and ecosystems for a long time has created the challenging situation that we now find ourselves in. There is thus a complex interactive dynamic between the societal crisis and the triplet of crises identified by UNEP which needs to be optimized through enhanced research to develop knowledge about how we balance the health of both people and ecosystems in a sustainable and equal society. This will require improved management to build a sustainable future.</p> <p>Panellists:</p> <p>Riikka Paloniemi, Unit Director in Societal Change, Finnish Environment Institute (Syke). Expert in biodiversity and sustainability transition.</p> <p>Manolis Kogevinas, ISGlobal, Barcelona Institute for Global Health, Spain. Expert on human health and biodiversity loss.</p> <p>Johan Kuylenstierna, The Swedish Research Council Formas, Sweden. Expert on climate change.</p> <p>Gerardo Sanchez, European Environment Agency (EEA). Expert in Environment and Health.</p> <p>Jana Klanova, Masaryk University, RECETOX, Brno, Czech Republic. Expert on chemical pollution.</p>
10:30 – 11:00	Refreshment break, with mingling opportunity	

11:00 - 12:15	Panel Discussion	<p>Sustainable material flows: The case of renewable energy technologies</p> <p><i>Moderated by Dr. Kateřina Šebková, Director of the National Centre of Toxic Compounds and of the Stockholm Convention Regional Centre for capacity building and the Transfer of Technology, Czech Republic</i></p> <p>Introduction to the session by Professor Frans Prekert (Platform for a Sustainable Future, Örebro University). Circularity of materials and their content of metals, other inorganic chemicals and of organic chemical additives are essential for a sustainable future. Much focus has been put on plastics/polymers as produced from petrochemical sources due to use of hazardous chemicals and impact on climate change. However, EU and the world are moving towards a social transformation where green technology, resource efficiency and electrification are at the centre today. An important part of this is to ensure an environment free of dangerous chemicals and pollution that can be avoided. In order to reach the environmental goals, set up under the Green Deal it is highly appropriate to carefully look into the present possibilities to reach sustainable materials flows for, batteries, solar cells and wind turbines. The use of metals, rare earth elements (REEs) will be central parts of society's climate and energy transition. However, also organic chemical as monomers in polymer production and use as additives must be used in a non-hazardous manner and allowing circularity.</p> <p>Panellists:</p> <p>Shane Colgan, The European Environmental Agency EEA, Copenhagen, Denmark. Expert on circular economy and the environment.</p> <p>Samuel Carrara, Scientific project officer, European Commission - Joint Research Centre). Expert on raw materials and strategic supply chains.</p> <p>Elin Bergman, COO and Chair of Cradlenet. Expert on the circular economy.</p> <p>Magnus Ericsson, Adjunct Professor at Luleå Technical University and RMG, Luleå and Stockholm, Sweden. Expert on mineral economics.</p>
12:15 - 12:30	Closing Session	Word of thanks to panel participants and closing remarks by Professor Åke Bergman , Platform for a Sustainable Future, Örebro University, Sweden
12:30 - 13:30	Lunch, with mingling opportunity	

Hosts & Panelists

Johan Schnürer, Vice Chancellor, Örebro University.

Professor Schnürer was pro-vice-chancellor for collaboration at the Swedish University of Agricultural Sciences (SLU) in Uppsala 2010-2016 and before that the Head of the Department of Microbiology at SLU 1996-2010. His research has focused on food-borne micro-fungi and their interactions with lactic acid bacteria and propionic acid bacteria. Johan Schnürer has published over 110 international refereed primary publications and peer-reviewed articles and has been the main supervisor of a dozen completed doctoral projects. He has many years of experience of directing and teaching at advanced courses in food and feed microbiology, as well as at Nordic and Swedish doctoral courses in microbial ecology.

Johan Schnürer is the initiator and programme director of several major research programmes in microbial biotechnology and environmental technology, receiving funding from among others Mistra and the biotechnology industry. He is the inventor behind several patents. One of the innovations from his research group become a biological preservation product, currently available in 20 countries. He is a board member of a researcher owned company managing intellectual property rights issues surrounding research, commercialisation, and patents in microbial biotechnology. He is also the chairman of a research company seeking new antibiotics.

Johan Schnürer is an elected member of the Royal Society of Sciences at Uppsala (2008) and the Royal Swedish Academy of Agriculture and Forestry (2012).



Per Ängquist, Director General, Swedish Chemicals Agency

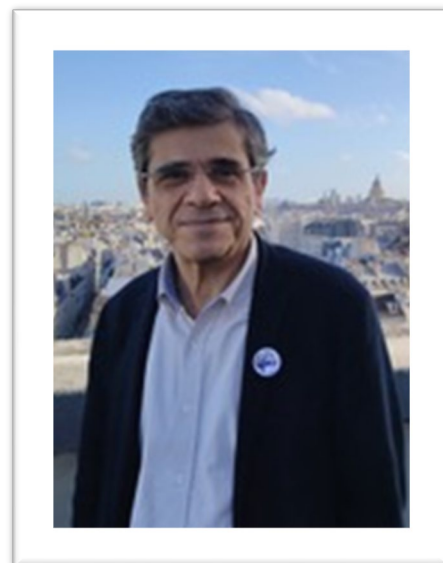
Ängquist is graduated in agronomy at the Swedish University of Agriculture. In his early career he worked as political secretary and press secretary at the Nature Conservation Association. He has also been a global analyst at the analysis company United Minds as well as a political expert at the Ministry of Enterprise. Between 2006 and 2014, Ängquist was head of office at the Green Party before he was appointed state secretary in the coordination office of the State Council Committee after the 2014 parliamentary election.

In connection with Karolina Skog being appointed Minister of the Environment in 2016, Ängquist was appointed State Secretary at the Ministry of the Environment and Energy. In 2019, he was appointed director general of the Swedish Chemicals Agency. He is also a member of the Management Boards of the European Chemicals Agency ECHA and the Swedish Transport Administration.

Robert Barouki, Professor at Inserm-Université Paris Cité, and Service de Biochimie Métabolomique et Protéomique, Hôpital Necker Enfants Malades, Paris, France.

Robert Barouki, MD, PhD, is Professor of Biochemistry at Université Paris Cité and head of the Inserm unit T3S: "Toxicology, Therapeutic Targets, cellular Signaling and Biomarkers". He also heads the clinical metabolomics and proteomic biochemistry laboratory at the Necker Enfants malades hospital. His research is focused on the impact of environmental contaminants on human health, in particular POPs and EDCs and more generally on the links between the exposome and health.

Barouki is involved in several EU projects: HBM4EU and PARC (linking exposure to health), Heals and Neurosome (exposome), HERA (setting the research agenda in environment and health) and Oberon (EDC testing). He has also been involved in the networking of French and European research in the field of environment and health as well as in communicating scientific data to citizens.



Kateřina Šebková (Katka), Director of the National Centre of Toxic Compounds and of the Stockholm Convention Regional Centre for capacity building and the Transfer of Technology, Czech Republic

Katka works in science policy interface on chemicals management including pollution for over two decades. She has a double PhD in chemistry and worked as chemical expert and negotiator for the Czech Ministry of Environment in chemicals management environmental risks and ecological damage, in particular on mercury, persistent organic pollutants and SAICM at EU and UN level since 2003. She led negotiations on mercury convention and served as bureau member under Minamata INC, SAICM and Stockholm Convention setting or expert group chair many times.

Since 2012, she is director of the National Centre of Toxic Compounds and of the Stockholm Convention Regional Centre for capacity building and the Transfer of Technology, two bodies that are hosted by RECETOX, Faculty of Science at the Masaryk University in Brno, Czech Republic. Her current work comprises cooperation with Czech and international stakeholders, training, technical assistance, capacity building and application of science into practice. She is a member of the High-Level Roundtable on the EU Chemicals Strategy for Sustainability and leads the WHO collaborating centre for chemical safety at RECETOX. She was a member of the Effectiveness evaluation committee under the Stockholm Convention in 2016 and 2022. She also chaired expert group for effectiveness evaluation and monitoring under the Minamata Convention on Mercury. Last but not least, she is coordinating the POPs monitoring in the Central and Eastern Europe within the Stockholm Convention on POPs.

Riikka Paloniemi, Unit Director in Societal Change,
Finnish Environment Institute (Syke).

Dr Riikka Paloniemi works as a unit director in Societal Change, Finnish Environment Institute. She holds doctorship in environmental policy. Her expertise covers various aspects of sustainability and sustainability transition, including environmental and biodiversity policy, knowledge use in planning and decision-making, environmental justice, public participation and power.

Furthermore, she is interested in conceptualizing, developing and exploring nature-based solutions, health and well-being benefits of nature as well planetary health.



Manolis Kogevinas, professor at ISGlobal,
Barcelona Institute for Global Health,
Barcelona, Spain

Professor Manolis Kogevinas, MD, PhD is the Severo-Ochoa Scientific Director at the Barcelona Institute for Global Health (ISGlobal). He graduated at the Medical School of Athens, Greece and has a PhD degree from the University of London (1989). He worked at IARC/WHO, Lyon, and was co-Director of the Centre for Research in Environmental Epidemiology (CREAL) in Barcelona, Spain. His research focuses on the evaluation of environmental and genetic factors in relation to cancer and other NCDs. In recent years he has always conducted research on the interplay of infections and NCDs in relation to the environment. He was the co-PI of the EU HERA project. He has published more than 700 indexed publications. He served in several WHO and other expert committees. He was President of the International Society for Environmental Epidemiology (ISEE).

**Johan Kuylenstierna, Director General at Formas –
A Research Council for Sustainable Development.**

Johan has a degree in geosciences with a research focus on paleoclimatology. He began his career with research in the Polar regions and as a university teacher but changed tracks to international environment and development cooperation and has worked at United Nations agencies in New York, Geneva and Rome with water, climate and sustainability. He has also served as the CEO of the Stockholm Environment Institute. Johan has also held the position as Vice Chair and later Chair of the Swedish Climate Policy Council and as Guest Professor & Senior Advisor on Sustainability to the President of the Stockholm University. Johan also served on the boards of Axfoundation, Gothenburg university, MISTRA Research Foundation, Sveaskog and WWF Sweden. He has been and active lecturer and moderator and worked over 4 years with national Channel 4 morning programme with “Klimatkollen”. He was appointed “Sweden's Most Environmentally Powerful person” by the magazine Miljöaktuellt in 2014 and was a summer host in Swedish National Radio P1 in 2017. He is a fellow of the Royals Swedish Academy of Engineering Sciences (IVA) and the Royal Swedish Academy of Agriculture and Forestry (KSLA).



**Jana Klánová, Director of RECETOX, Masaryk
University, Brno, Czech Republic**

Jana Klánová is a professor of environmental chemistry at Masaryk University in Brno, Czech Republic, a director of the RECETOX Centre Faculty of Science, Masaryk University and head of the RECETOX research infrastructure. She is also a coordinator of the ESFRI Research Infrastructure on human exposome (EIRENE RI) network. Her research interests are in environmental health sciences, namely environmental determinants of health. Jana is a member of the ESFRI Strategic Working Group on Environment and the Czech national Board on Large Infrastructures for Research and Innovation. She is a lead of the Group of Earth Observation Initiative GOS4POPs (Global Observation System for Persistent Organic Pollutants). She is member of the Czech Council for research infrastructures and of Scientific Advisory Board of the Czech Technology Agency. She is the principal investigator of dozens of large European research projects and framework programmes including Horizon 2020 project Teaming and other Horizon Europe multiple large-scale projects with a total value of 80 mil. Eur, and published more than 200 research papers.

Frans Prenkert, professor of business administration and chair of the Platform for a Sustainable Future at Örebro University. He is also subject chair professor and head of the Center for Sustainable Business at Örebro University School of Business.

Frans Prenkert' research interests are in the organizing of industrial systems for a sustainable economy. He researches issues such as how to internalize economic externalities such as common pool resources, how to value ecosystem services in industrial systems and what the transformation to a more circular economy requires, among other things. He has published extensively in top management and economic journals, is a board member of the research network IMP Group and has served as an expert judge at the Swedish Higher Market and Patent Court at Svea Hovrätt in Stockholm. He is highly engaged in science to policy activities and has given talks in several Swedish Parliament Committees, is a member of high-level expert councils and has reviewed the IPCC AP6 SYR.



Shane Colgan, Expert, Circular Economy, European Environment Agency

Shane is an engineer by training, with a background in waste and resources. He works in the sustainable resources team at the European Environment Agency. At the EEA, Shane is focussed on strengthening monitoring for the circular economy and is also active with tasks on reuse, recycling and waste management. He has had a long career with Ireland's Environmental Protection Agency where he worked across a range of areas, including food waste, hazardous waste and producer responsibility. He managed the national waste prevention programme for several years, and later developed this into Ireland's first circular economy programme.

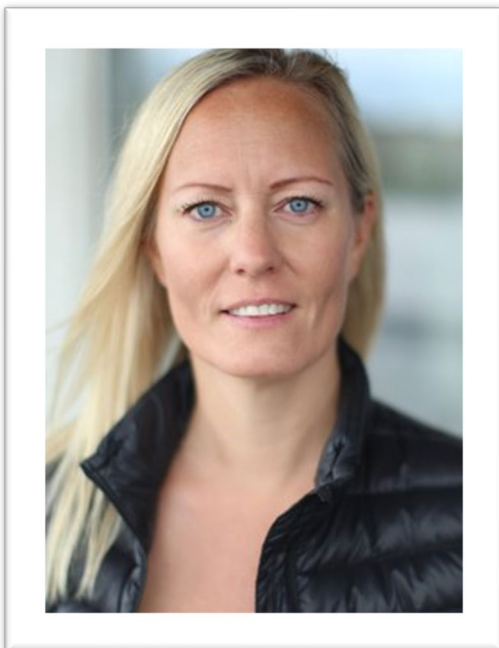
Samuel Carrara, Scientific project officer at the European Commission – Joint Research Centre

Samuel Carrara (Bergamo, Italy, 19/05/1982) holds a Bachelor and a Master Degree cum laude in Mechanical Engineering (major: energy and mechanical plants) and a PhD in Technologies for Energy and the Environment, all from the University of Bergamo, Italy.

After working as an energy engineer in the gas turbine field, in 2011 he joined Fondazione Eni Enrico Mattei (FEEM), an Italian research institute in the field of climate change and sustainable development, where he worked as an energy modeller until 2019, mostly focusing on the renewable energy modules.

In early 2016 he was granted a Marie Skłodowska-Curie Global Fellowship by the European Commission, jointly developed at the University of California, Berkeley and at FEEM. His research project was titled “MERCURY – Modeling the European power sector evolution: low-carbon generation technologies (renewables, CCS, nuclear), the electric infrastructure and their role in the EU leadership in climate policy” (www.mercury-energy.eu).

In 2019, he joined the Joint Research Centre of the European Commission in Petten, the Netherlands (Directorate C: Energy, Mobility and Climate – Unit C.7: Energy Transition Insights for Policy), where he carries out technical and policy analyses on raw materials and supply chains, mainly focusing on technologies for the green and digital transition.



Elin Bergman, COO & Vice Chair Cradlenet, Co-founder & Managing Partner Nordic Circular Hotspot

Elin Bergman is known for being the Circular Economy Queen of Sweden. She is one of the co-founders of the Nordic Circular Hotspot a collaboration platform for accelerating circular economy in the region, and is also the COO and spokesperson of the Swedish circular economy network Cradlenet. For many years she worked as WWF Sweden’s circular economy expert, where she developed the international circular economy network Baltic Stewardship Initiative, to enable the recirculation of nutrients in the Baltic Sea region in the agri-food sector. She has previous experience as Marketing and Communications Manager at the sustainability consultancies Tricorona and Respect.

Magnus Ericsson, Adjunct Professor at Luleå Technical University and RMG, Luleå and Stockholm, Sweden.

Magnus Ericsson, is a veteran observer and analyst of global mining, his work going back to the early 1970s. His recent research focuses on the structure of global mining, the possibility of change in the behaviour and perception of the industry and the role of China in global metal supply. He is co-founder and Editor-in-Chief of the scientific publication Mineral Economics – Raw Materials Report.

Magnus is an adjunct professor of mineral economics at the Luleå University of Technology and advisor to governments, international organisations and companies.



Åke Bergman, Post Retirement Professor at Örebro University MTM, Örebro University

Åke Bergman is Senior Advisor for PSF@ORU Pooling expertise: Multidisciplinarity for a sustainable future - Örebro University (oru.se), Professor Emeritus at Stockholm University, Department of Environmental Science and Advisory professor at Tongji University, College of Environmental Science and Engineering, Shanghai, China. His professional work is in environmental chemistry where he has worked with chemical synthesis, analysis (exposure assessments) and metabolism of organic environmental pollutants and their transformation products. His research has led to extensive understanding and several new discoveries of the metabolism of PCBs and DDTs. He initiated research on brominated flame retardants (BFRs). Åke research and activities has always been related to endocrine disrupting chemicals (EDCs), even before term EDC was coined and on mixtures of chemicals. He has lead/been partner of and still is engaged in many EU research projects. He has been engaged as an expert in numerous national, EU, UNEP and WHO groups/committees, e.g. both the intergovernmental State of the Science of Endocrine disruptors, the latter (from 2012) as coordinator. He has an extensive scientific publication record and also part of two Swedish documentary films.

Participants

On site Stockholm

Organisation	First name	Last name
Alfa Laval Technologies AB	Ekatherine	Lagovardos
City of Stockholm	Arne	Jamtrot
City of Stockholm, Environmental Management	Needa	Shaheen
Ecolabelling Sweden AB (Svanen)	Ulf	Eriksson
Institute for Risk Assessment Sciences, Utrecht University, the Netherlands	Roel	Vermeulen
Jokkmokk Iron Mines AB	Ulla	Sandborgh
KTH Royal Institute of Technology	Annika	Borgenstam
Public Health Agency of Sweden	Karin	Ljung Björklund
Public Health Agency of Sweden	Linda	Molander
Research Council Formas	John	Tumpane
Research Council Formas	Therese	Woodhill
Research Institute RISE AB	Christina	Jönsson
Royal Swedish Academy of Engineering Sciences (IVA)	Karin	Byman
Stockholm University	Natasja	Börjeson
Stockholm University	Magnus	Breitholtz
Swedish Agency for Marine and Water Management	Susanne	Eriksson
Swedish Chemicals Agency	Ulrika	Dahl
Swedish Chemicals Agency	Ann-Louise	Månsson
Swedish Chemicals Agency	Lina	Wendt-Rasch
Swedish Chemicals Agency	Emma	Westerholm
Swedish Chemicals Agency	Robin	Vestergren
Swedish Chemicals Agency	Stina	Maxlahti
Swedish Chemicals Agency	Linn	Norrbäck
Swedish Environmental Protection Agency	Linda	Linderholm
Swedish Environmental Protection Agency	Karin	Nortröm
Swedish Forest Industry Federation	Sverker	Danielsson
Swedish foundation for strategic environmental research (Mistra)	Anna	Jöborn
Swedish Government Offices	Lisa	Anfält Widlund
Swedish Parliament	Jytte	Guteland
Swedish University of Agricultural Sciences (SLU)	Pär	Forslund
Swedish University of Agricultural Sciences (SLU)	Elisabeth	Rajala
University of Massachusetts and Örebro University	R. Thomas	Zoeller
University of Tours	Mathilde	Duflos
University of Tours	Caroline	Giraudeau
Uppsala University	Mikael	Karlsson
Uppsala University	Joëlle	Rüegg
Örebro University	Anna	Kärman
Örebro University	Magnus	Engwall

Online Webinar

Organisation	First name	Last name
ANSES - The French Agency for Food, Environmental and Occupational Health & Safety	Adrienne	Pittman
ANSES - The French Agency for Food, Environmental and Occupational Health & Safety	Laetitia	Dubois
ANSES - The French Agency for Food, Environmental and Occupational Health & Safety	Aurélie	Desbrée
ANSES - The French Agency for Food, Environmental and Occupational Health & Safety	Anne-Laure	Moriaux
Barcelona Institute for Global Health (ISGlobal)	Michelle	Turner
BOKU	Wang	LI
ETH Zürich	Martin	Scheringer
European Commission	Sofie	Norager
Galvin Green	Alicia	Jonsson
Norwegian Institute of Public Health	Birgitte	Lindeman
Norwegian Institute of Public Health	Hubert	Dirven
Public Health Agency of Sweden	Sara	Wall
SLU Future One Health, Swedish University of Agricultural Sciences	Susanna	Sternberg Lewerin
Swedish Chemicals Agency	Stina	Delden
Swedish Chemicals Agency	Johanna	Löfbom
Swedish Chemicals Agency	Katarzyna	Malkiewicz
Swedish Chemicals Agency	Kristina	Attoff
Swedish University of Agricultural Sciences	Susanne	Gustafsson
Tongji University	Yanling	Qiu
University of Natural Resources and Life Sciences, Vienna	Renate	Weiss
University of Natural Resources and Life Sciences, Vienna	Theresa	Krexner
University of Ostrava	Tomas	Zelenka
University of Rwanda	Aloys	Habimana
University of Rwanda	Margaret	Tumusiime
Örebro University	Eva	Särndahl
Örebro University	Magnus	Boström
	Mikael	Rosén