

IAMC 2022 KEYNOTE SPEAKERS



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Allen FAWCETT
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Araceli FERNANDEZ
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David GROVES
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Chris HOAGLAND
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Nathan HULTMAN
CGS, UMD



Samir K.C.
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Elisa LANZI
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Brian O'NEILL
JCRI, PNNL



Vicky POLLARD
DG CLIMA, EC



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James ROAF
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Jim SKEA
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Benjamin SOVACOOOL
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Saritha VISHWANATHAN
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COLIN CUNLIFF

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Colin formally was a senior policy analyst with the Information Technology and Innovation Foundation, the leading think tank for science and technology policy. He previously worked at the U.S. Department of Energy (DOE) Office of Energy Policy and Systems Analysis, with a portfolio focused on energy sector resilience and emissions mitigation. Prior to that, he was the American Institute of Physics / American Association for the Advancement of Science (AIP/AAAS) Congressional Fellow in the office of Senator Dianne Feinstein, where he served as a staff science adviser on energy, climate and transportation. He holds a Ph.D. in physics from the University of California, Davis, and a bachelors degree in physics and mathematics from the University of Texas in Austin.



JOHANNES EMMERLING

Senior Researcher, RFF-CMCC European Institute on Economics and the Environment (EIEE), Low Carbon Pathways unit
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Johannes Emmerling is a Scientist at EIEE and co-leads the Low Carbon Pathways unit. He was a Senior Researcher at Fondazione Eni Enrico Mattei (FEEM) between 2012 and 2018. Johannes holds a Ph.D. from the Toulouse School of Economics (TSE), a M.A. in Economics from the Free University Berlin and a B.Sc. in Economics from the University of Heidelberg. He was a postgraduate fellow in Development Cooperation at the German Development Institute, Bonn. He has been working amongst others at the Social Science Research Center (WZB) Berlin, the Gesellschaft für Internationale Zusammenarbeit (GIZ), as Lecturer at Université Toulouse 1 Capitole, and as Consultant for the Organization of American States (OAS), the European Bank for Reconstruction and Development (EBRD), the German Institute of Metrology (PTB), the Asian Development Bank (ADB), and the World Bank. He is co-leading the development of the integrated assessment model WITCH. His main areas of research include Climate Change and Energy economics, Risk and Uncertainty, Welfare Economics and Development. He has co-authored over 30 articles in peer-reviewed journals and is an Associate Editor of the Public Finance Review. He is a passionate cyclist and plays keyboards in various formations.



ALLEN FAWCETT

Chief, Climate Economics Branch
US EPA (United States Environmental Protection Agency)
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Allen Fawcett is the Chief of the Environmental Protection Agency's Climate Economics Branch. He collaborated with the U.S. State Department and White House on analysis ahead of the Paris negotiations leading to the influential 2015 paper, "[Can Paris pledges avert severe climate change?](#)", and the [U.S. Midcentury Strategy](#), and he renewed those collaboration in the lead up to COP26 in Glasgow resulting in the paper, "[Can updated climate pledges limit warming well below 2°C?](#)", and the [Long-Term Strategy of the United States](#) in 2021. Allen was a member of the U.S. delegation to the IPCC for the approvals of the Special Report on Global Warming of 1.5 °C and the WGIII contribution to AR6. Allen served as Deputy Associate Director for Energy & Climate at the White House Council on Environmental Quality from 2010-2011 during the Obama Administration. Allen was also responsible for EPA's analyses of Waxman-Markey and other cap-and-trade bills in the 110th and 111th U.S. Congress. Allen has been extensively involved with the Stanford Energy Modeling Forum (EMF), co-chairing the EMF [24](#), [32](#), and [37](#) model intercomparison projects on cap-and-trade vs. regulatory policies, carbon taxes, and deep decarbonization scenarios respectively. Allen is also a member of the Advisory Council for the Integrated Assessment Modeling Consortium. Allen joined the Environmental Protection Agency in 2003 after receiving his Ph.D. in Economics from the University of Texas.



ARACELI FERNANDEZ PALES

Head of Technology Innovation Unit, International Energy Agency

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Araceli Fernandez has more than fifteen years' experience working on technology development in the energy field. She currently serves at the International Energy Agency as the Head of the Technology and Innovation Unit within the Energy Technology Policy division. Araceli manages research, analytical and scenario modelling activities on clean technologies for end-use sectors in that Division. She also supervises the process to monitor the readiness level of clean technologies across the energy sector and to track clean energy progress. In her previous role at the IEA, she led the modelling and technology analysis related to the industrial sector, in particular, in the same division. Before joining the IEA in 2012, Araceli served in different roles in the Oil & Gas sector including process optimization, detailed engineering, new processes licensing and emissions monitoring for refinery and petrochemical projects. Araceli holds a MEng in Chemical Engineering from the Polytechnical University of Valencia (Spain) and a MSc in Process Engineering from Cranfield University (UK).



DAVID GROVES

Senior Climate Change Specialist, Climate Change, World Bank

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David Groves is a Senior Climate Change Specialist at the World Bank's Climate Change Group. He works with a small team of economists and climate experts supporting the implementation of the Bank's new Climate Change Action Plan. He supports cross-Bank teams that are developing new Country Climate and Development Reports, and he is co-leading the Bank's program on long-term low emissions development strategies. Prior to joining the World Bank in 2021, David Groves was a senior policy researcher at the RAND Corporation where he directed its Climate Resilience Center and Center on Decision Making Under Deep Uncertainty.



CHRIS HOAGLAND

Director of Air and Radiation, Maryland Department of the Environment

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Chris Hoagland is the Director of the Maryland Department of the Environment's Air and Radiation Administration. He is responsible for the implementation and management of Maryland's air pollution and radiation protection programs, including air quality planning and monitoring, regulation development, mobile source control, climate change, air permitting, radioactive materials licensing, radiation machine registration and certification, and inspection/enforcement programs. Prior to taking over as the Air Director, Mr. Hoagland managed MDE's Climate Change Program, which coordinates Maryland's climate change planning and analysis, supports the independent Maryland Commission on Climate Change, and manages Maryland greenhouse gas regulations, including the Regional Greenhouse Gas Initiative. Mr. Hoagland has also served in climate change policy roles at the Federal level at the U.S. General Services Administration, U.S. Environmental Protection Agency, and Office of Information and Regulatory Affairs. He has master's degrees in Forestry and Environmental Management from Duke University's Nicholas School of the Environment and a bachelor's degree in History from St. Mary's College of Maryland.



NATHAN HULTMAN

Professor; Director, Center for Global Sustainability, University of Maryland

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Nate Hultman is the Founder and Director of the Center for Global Sustainability at the University of Maryland, and Professor in the School of Public Policy. Prof. Hultman's work focuses on developing and assessing policy strategies to target and achieve ambitious national climate goals. This includes U.S. emissions mitigation policy, rapid coal phaseout strategies in diverse national contexts, and economy-wide emissions strategies in key countries, with a focus on China and others. He was recently Senior Advisor in the Office of the Special Presidential Envoy for Climate at the U.S. Department of State, where he led the writing of the 2021 U.S. Long Term Strategy report and helped negotiate the U.S.-China Joint Glasgow Declaration at COP26. In his academic research, he was also lead author of several recent assessments of U.S. national climate strategies and emissions targets in advance of the announcement of the U.S. 2030 climate target (NDC). From 2014-2016, Hultman worked at the White House on the Obama Administration's climate and energy policy team. During this time, he helped develop the U.S. 2025 NDC, supported bilateral engagements with China and others, and participated in the international climate negotiations in Paris. He has participated in the UN climate process for 25 years, starting with the Kyoto meeting. Hultman is also a nonresident senior fellow at the Brookings Institution, and associate director of the Joint Global Change Research Institute, a collaboration between the University of Maryland and the Pacific Northwest National Laboratory.



SAMIR K.C.

IIASA, Research Group Leader and Senior Research Scholar
Multidimensional Demographic Modeling Research Group - Population
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Samir KC joined IIASA in 2005, and is currently leader of the Multidimensional Demographic Modeling (MDM) Research Group, in the IIASA Population and Just Societies (POPJUS) Program. KC is a founding member of and Professor at the Asian Demographic Research Institute (ADRI) at Shanghai University. KC leads ADRI's research pillar on Human Capital and Development. He is also a founding member of a new initiative in Nepal called "Digital Data Systems for Development." Since 2020, KC has been affiliated with the Graduate School of Management, Kyoto University, as a 'Distinguished Visiting Professor'. KC's primary research interests are: developing and applying multi-dimensional multi-state population models in demographic analysis and projections, focusing on modeling human capital formation (education and health) and urbanization. He has co-developed an R package (MSDem) that can simultaneously model multi-dimensional population dynamics at sub-national levels by age, sex, and educational attainment. KC has published in Science magazine (2011, 2014) and other peer-reviewed journals (e.g., GEC in 2014, PNAS in 2016 and 2018), and has co-edited and written several chapters in the book "World Population and Human Capital in the Twenty-First Century," published by Oxford University Press in 2014.



ELISA LANZI

Modelling Lead, Environment and Economy Integration Division,
OECD Environment Directorate

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Elisa Lanzi is a Senior Economist at Economy Environment Integration Division of the OECD Environment Department, where she leads the Modelling and Outlooks team. Elisa works on the economic consequences of environmental policies on a range of environmental issues, including climate change, air pollution, materials use, plastics, and the transition to a more resource efficient and circular economy. Since joining the OECD in 2010, Elisa worked on several topics, including the costs of inaction on the environment, trade and the environment, the competitiveness impacts of climate policies, and climate change adaptation. Before joining the OECD, she worked at Fondazione Eni Enrico Mattei (FEEM) in the modeling team of the Sustainable Development

Division, where she focused on applied economic modelling to assess sustainability and climate policy costs. She owns a PhD in Economics from the University of Venice, a Master in Environmental and Natural Resource Economics from University College London, and a Master of Arts in Economics from the University of St Andrews.



BRIAN O'NEILL

Director, Joint Global Change Research Institute, PNNL
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Brian O'Neill is a chief scientist and Laboratory fellow at the Joint Global Change Research Institute, a collaboration between Pacific Northwest National Laboratory (PNNL) and the University of Maryland in College Park. His research interests are in human-Earth system interactions, in particular the human dimensions of global environmental change. Previously, he was a professor at the Josef Korbel School of International Studies at the University of Denver and also served as director of research at the Korbel School's Pardee Center for International Futures. He led research groups on integrated assessment modeling and on climate and human systems at the U.S. National Center for Atmospheric Research and on population and climate change at the International Institute for Applied Systems Analysis. Early in his career, he was on the science staff of the Environmental Defense Fund in New York and was an assistant and associate professor (research) at Brown University's Watson Institute for International Studies. Brian is a convening lead author for the Intergovernmental Panel on Climate Change's ongoing Sixth Assessment Report and was an author on the U.S. Fourth National Climate Assessment. He holds a PhD in Earth systems science and an MS in applied science, both from New York University.



VICKY POLLARD

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Vicky is head of the unit in the European Commission's Directorate General for Climate Action, covering modelling and economic analysis for climate policy, the greenhouse gas inventory and reporting on climate action. She has worked on climate change for the Commission since 2006, covering a number of other issues over time including international negotiations, climate cooperation with OECD countries, the implementation of the EU emissions trading system, cooperation on ETS design, international carbon markets and work on just transition. From 2014 to 2019, Vicky was Counsellor for Environment and Climate at the EU's delegation to China in Beijing.



KEYWAN RIAHI

Director, Energy, Environment, and Climate (ECE) Program, IIASA
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Keywan Riahi is the Director of the Energy, Climate and Environment (ECE) Program at the International Institute for Applied Systems Analysis (IIASA). In addition, he is a Visiting Professor of Energy Systems Analysis at the Graz University of Technology and serves as an External Faculty Member at the Institute for Advanced Study (IAS) at the University of Amsterdam. He was appointed to the [European Scientific Advisory Board on Climate Change](#), providing scientific advice to underpin the climate policies in the EU, and was appointed by UN Secretary General Guterres to the [10-Member Group](#) to advise the UN on the Technology Facilitation Mechanism for the implementation of the Agenda 2030. In addition, he serves on the [Scientific Advisory Board of the City of Vienna](#) and the Austrian Green Finance Alliance. His key scientific achievements comprise the coordination and development of the so-called Representative Concentration Pathways ([RCPs](#)) and the Shared Socioeconomic pathways ([SSPs](#)), which have facilitated the integrated analysis of

climate change response options across the entire scientific community. He has been appointed to the [Earth Commission Working Group I](#) on the Earth and Human System Modelling Inter-comparison Project ([EHSMIP](#)) and also serves as the Coordinating Lead Author in Working Group III of the IPCC Sixth Assessment Report ([AR6, Chapter 3](#) on Mitigation pathways compatible with long-term goals).



JAMES ROAF

Assistant Director, Fiscal Affairs Department, International Monetary Fund
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James Roaf is an Assistant Director in the Fiscal Affairs Department of the IMF. In 2020 he took on the new role of Climate Change Policy Coordinator, overseeing a team of dedicated experts and a rapidly expanding work agenda on fiscal policies to address climate change. This group has now been developed into a full Climate Policies Division. Previous IMF assignments have included mission chief for Russia and for Serbia, the policy response to the global financial crisis and the eurozone crisis, development of policies for reserve adequacy and sovereign debt restructuring, individual crisis cases in Russia, Argentina and Greece, and overseas postings in Poland and Bulgaria. Mr. Roaf worked at the UK Treasury prior to joining the IMF.



JIM SKEA

Co-Chair Of IPCC WG-III, Professor of Sustainable Energy at Imperial College London
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Jim Skea CBE is Professor of Sustainable Energy at Imperial College London with research interests in energy, climate change and technological innovation. He is Co-Chair of IPCC Working Group III for the 6th assessment cycle. He was Research Director of the UK Energy Research Centre 2004-12 and Director of the Policy Studies Institute 1998-2004. He was a member of the UK Committee on Climate Change from its inception in 2008 until 2018, and currently chairs Scotland's Just Transition Commission. From 2015-17, he was President of the UK Energy Institute.



BENJAMIN K. SOVACOOOL

Professor of Earth and Environment at Boston University, Professor of Energy Policy at the Science Policy Research Unit (SPRU), University of Sussex Business School
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Dr. Benjamin K. Sovacool is Professor of Earth and Environment at Boston University in the United States, as well as Professor of Energy Policy at the Science Policy Research Unit (SPRU) at the University of Sussex Business School in the United Kingdom. He is also University Distinguished Professor of Business & Social Sciences at Aarhus University in Denmark. Professor Sovacool works as a researcher and consultant on issues pertaining to energy policy, energy justice, energy security, climate change mitigation, and climate change adaptation. More specifically, his research focuses on renewable energy and energy efficiency, the politics of large-scale energy infrastructure, the ethics and morality of energy decisions, designing public policy to improve energy security and access to electricity, and building adaptive capacity to the consequences of climate change. With much coverage of his work in the international news media, he is one of the most highly cited global researchers on issues bearing on controversies in energy and climate policy.



BAS VAN RUIJVEN

Research Group Leader, Sustainable Service Systems, IIASA
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Bas van Ruijven is group leader of the Sustainable Service Systems (S3) group in the Energy, Climate, and Environment (ECE) program at IIASA and co-chair of the International Committee On New Integrated Climate change assessment Scenarios (ICONICS). Before joining IIASA, Dr. van Ruijven worked as Project Scientist with the Integrated Assessment Modeling group at the National Center for Atmospheric Research (NCAR) in Boulder, CO, USA and was Research Scientist at Boston University's Pardee Center for the Study of the Longer-Range Future. Before 2011, Dr. van Ruijven was Policy Researcher with the IMAGE IAM group at the Netherlands Environmental Assessment Agency (PBL). Dr. van Ruijven's research interests cover a wide range of topics, from energy demand and technology development scenarios to energy transitions in developing countries and the impacts of climate change. Current projects include the development of low energy demand scenarios, and the use of climate scenarios in the financial sector..



SARITHA SUDHARMMMA VISHWANATHAN

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Saritha Sudharmma Vishwanathan is a postdoctoral research fellow in the Global Sustainability Integrated Assessment Lab within the Social Systems Division at the National Institute for Environmental Studies (NIES), Tsukuba, Ibaraki, Japan. She received her fellowship in Management majoring in Public Systems and Public Policy from the Indian Institute of Management Ahmedabad (IIMA). Prior to that she completed her B.E. in Environmental Engineering for L.D. College of Engineering (Ahmedabad, Gujarat) and M.S. EnvE in Environmental Engineering from the Georgia Institute of Technology (Atlanta, USA). After her Masters', she worked as junior environmental engineer for the Federal Services Division at Black and Veatch (Alpharetta, Georgia, USA) on projects for the Environmental Protection Agency (EPA) and the Department of Defense (DoD).

At NIES (Japan), she is exploring the socio-economic, technical and policy assessment and working on integrated assessment modelling for energy intensive industry sector in the Asia region. As a PhD candidate and as a postdoctoral fellow, she has been contributing to international projects (UNEP-DTU HIO under SEforALL, MILES, Coal Transitions, CDLINKS, DDP BIICS, ENGAGE, IMAGINE, NDC ASPECTS, IAMCOMPACT) related to develop low-carbon, and carbon-neutral pathways at national level (India). She has also worked on national projects such as 'Synchronizing energy transitions towards possible Net-Zero for India: Affordable and clean energy for All (ESN), supported MoEF&CC for COP26 (2021) (UNDP), COP27 (2022) and Long Term Strategies (LTS) for India.