



CONFERENCE ON BIODIVERSITY LOSS AND ECOSYSTEM DEGRADATION

ORGANIZED BY CENTRAL BANK OF CHILE, WORLD WILDLIFE FUND (WWF) AND UNEP-FI

MAY 26TH AND 27TH, 2022

SESSION 1

**ELIZABETH MARUMA
MREMA**

Executive Secretary of the Convention on Biological Diversity



Executive Secretary of the Convention on Biological Diversity, Elizabeth Maruma Mrema has worked with the UN Environment Programme (UNEP) for over two decades and has served in various roles, including as Director of the Law Division, Deputy Director of the Ecosystems Division, and Executive Secretary of the Secretariat of the Convention on the Conservation of Migratory Species of Wild Animals. Her work at UNEP has focused on the development, implementation and enforcement of environmental laws at national, regional and international levels. Before joining UNEP, Elizabeth worked with Tanzania's Ministry of Foreign Affairs and International Cooperation. During her time with the Ministry, she also lectured in Public International Law and Conference Diplomacy at Tanzania's Centre for Foreign Relations and Diplomacy.

GEOFFREY HEAL**Professor of Social Enterprise at Columbia BS**



Geoffrey Heal is Donald C. Waite III Professor of Social Enterprise at Columbia Business School, and is noted for contributions to economic theory and resource and environmental economics. He has taught at the universities of Sussex, Essex, Yale, Stanford, École Polytechnique, Stockholm and Princeton. Author of eighteen books and about two hundred articles, Professor Heal is a Fellow of the Econometric Society, past Managing Editor of the Review of Economic Studies, Past President of the Association of Environmental and Resource Economists. He is also actively involved with environmental organizations, being on the board of directors of the Union of Concerned Scientists, Chair of the Board of the Coalition for Rainforest Nations and on the Advisory Board of the Environmental Defense Fund. He is also member of the National Academy of Sciences, a Fellow of the Econometric Society and of the Association of Environmental and Resource Economists. Professor Heal also was a coordinating lead author of the IPCC's Fifth Assessment Report, and was a member of President Sarkozy's Commission on the Measurement of Economic Performance and Social Progress.

MATHIS WACKERNAGEL**President of the Global Footprint Network**



Mathis Wackernagel is co-founder and President of the Global Footprint Network and is the co-creator of the Ecological Footprint. Mr. Wackernagel previously served as director of the Sustainability Program at Redefining Progress in Oakland, California, and ran the Centro de Estudios para la Sustentabilidad at Anáhuac University in Xalapa, Mexico. He has authored and contributed to more than 100 peer-reviewed papers, numerous articles, reports and various books on sustainability that focus on embracing resource limits and developing metrics for sustainability. He has also received multiple awards, including the World Sustainability Award (2018), IAIA Global Award for the Environment (2015), WWF Conservation Merit Award (2006), and the Herman Daly Award from the American Society for Ecological Economics (2005). Mr. Wackernagel holds a PhD in Community and Regional Planification from University of British Columbia, and a degree in Mechanical Engineering from Swiss Federal Institute of Technology.

SESSION 2

GRETCHEN DAILY

Director of the Center for Conservation Biology at Stanford



Ms. Daily is the Director of the Center for Conservation Biology at Stanford, and co-founder and the Faculty Director of the Stanford Natural Capital Project, the Bing Professor of Environmental Science in the Department of Biology at Stanford University, and a senior fellow at the Stanford Woods Institute for the Environment. Her works includes nature, biodiversity change, the impact of human dependence on nature, conservation and sustainability, including the financial angle. Ms. Daily has published and coauthored several hundred scientific and popular articles, and a dozen books. She is a fellow of the U.S. National Academy of Sciences, the American Academy of Arts, and Sciences and the American Philosophical Society. Ms. Daily has received numerous international honors including the 2020 Tyler Prize for Environmental Achievement, 2017 Blue Planet Prize, 2019 BBVA Frontiers of Knowledge Award, 2012 Volvo Environment Prize, 2010 Midori Prize for Biodiversity, and the 2009 International Cosmos Prize. She holds a Ph.D., a M.S. and a B.Sc. in Biological Sciences from Stanford University.

PUSHPAM KUMAR

Chief Environmental Economist at UNEP



Geoffrey Heal is Donald C. Waite III Professor of Social Enterprise at Columbia Business School, and is noted for contributions to economic theory and resource and environmental economics. He has taught at the universities of Sussex, Essex, Yale, Stanford, École Polytechnique, Stockholm and Princeton. Author of eighteen books and about two hundred articles, Professor Heal is a Fellow of the Econometric Society, past Managing Editor of the Review of Economic Studies, Past President of the Association of Environmental and Resource Economists. He is also actively involved with environmental organizations, being on the board of directors of the Union of Concerned Scientists, Chair of the Board of the Coalition for Rainforest Nations and on the Advisory Board of the Environmental Defense Fund. He is also member of the National Academy of Sciences, a Fellow of the Econometric Society and of the Association of Environmental and Resource Economists. Professor Heal also was a coordinating lead author of the IPCC's Fifth Assessment Report, and was a member of President Sarkozy's Commission on the Measurement of Economic Performance and Social Progress.

PABLO MARQUET**Professor of the Department of Ecology at PUC**



Pablo Marquet is currently a Professor of the Department of Ecology at the Pontifical Catholic University of Chile, an External Professor of the Santa Fe Institute, and is associated with the Institute of Ecology and Biodiversity (IEB) and the Center for Mathematical Modelling (CMM). He has a bachelor's degree in Biological Sciences from Universidad de Concepción and a Ph.D. in Biology from the University of New Mexico. He is a Fellow of the Ecological Society of America, a Corresponding Member of the Chilean Academy of Sciences, a Foreign Member of the National Academy of Sciences (USA), American Academy of Art and Sciences, and The World Academy of Sciences. His most recent research areas are Global Change and conservation, the impact of Climate Change on biodiversity, complex systems, and the emergence of social complexity. He is currently a member of the Committee for Climate Change in the Chilean Ministry of Science and the author of more than 250 publications.

SESSION 3**MARCELO MENA****Director of the Climate Action Center at PUCV**



Marcelo Mena is the Director of the Climate Action Center at Pontificia Universidad Católica de Valparaíso (PUCV). Previously he was Viceminister and Minister of Environment of Chile (2014-2018). Mr. Mena has a bachelor's degree in biochemical Engineering from Pontificia Universidad Católica de Valparaíso (PUCV) and later graduated from an MS and PhD in Environmental Engineering at the University of Iowa. He did a postdoc at MIT's Joint Program on the Science and Policy of Global Change. Mr. Mena specializes in atmospheric modelling and air quality projections.

CRISTINA DORADOR**Member of the National Constituent Assembly**

Cristina Dorador is an acting Member of the National Constituent Assembly and an Associate Professor of the Department of Biotechnology at Universidad de Antofagasta. She is also a member of the Women Researcher Network in Chile, and a member of Etilmercurio, a scientific divulgation group, and owns a membership at the Microbian Ecology International Society. She holds a bachelor's degree in Biology and a PhD in Natural Science at Max Planck Institute of Limnology and Kiel University – where she specialized in Microbiology.

RODRIGO ARRIAGADA**Head of the Information and Environmental Economics Division of the Ministry of the Environment of Chile**

Rodrigo Arriagada is currently Head of the Information and Environmental Economics Division of the Ministry of the Environment. He is also an associate professor in the Department of Ecosystems and Environment at the Pontificia Universidad Católica de Chile (PUC). Mr. Arriagada received a bachelor's degree in forestry engineering from the University of Chile, a master's degree in natural resources from North Carolina State University, and a Ph.D. in Environmental and Resource Economics from the same university. His areas of specialized expertise include impact evaluation of environmental policies, the economics of ecosystem services, and the study of the intersection between human development and environmental conservation.

RAFFAELLO CERVIGNI**Lead Environmental Economist at World Bank**

Raffaello Cervigni is a lead environmental economist with the World Bank's Environment Global Practice. He manages the Global Program on Sustainability, the Bank's umbrella program on the economics of sustainability. Raffaello has been with the Bank for over 20 years, leading policy-and project work in Latin America, Middle-East and North Africa, and Sub-Saharan Africa, in sectors such as natural resources management, agriculture, water, energy, transport. Before joining the Bank, he served as an area coordinator in Italy's Ministry of Economy and Finance. Cervigni holds a Ph.D. from University of London and an M.Phil. from University of Oxford. He is the author/ co-author of over 50 publications

KATHERINE WILLIS**Principal of St Edmund Hall and Professor of Biodiversity, University of Oxford**

Kathy Willis is the Principal at St Edmund Hall, one of the oldest Colleges in the University of Oxford. She also holds a position as Professor of Biodiversity, Head of the Oxford Long-term Ecology group, and is a member of the UK's Natural Capital Committee (NCC) – where she has been directly involved in the development of the Government's 25 Year Environmental Plan and the recently announced Biodiversity Offsetting and Environment Bills. Her research has focused on the use of fossils and modern datasets, models, and innovative technologies to determine the diversity, distribution and abundance of plants and animals across global landscapes in space and time.

SESSION 4

JUSTIN JOHNSON

Assistant Professor of Applied Economics at University of Minnesota



Justin Andrew Johnson is an Assistant Professor of Applied Economics at the University of Minnesota. He received his Ph.D. in 2014 from Applied Economics at the University of Minnesota. Justin works closely with the Natural Capital Project at The Institute on the Environment, University of Minnesota and Stanford University. Justin's research focuses on how the economy affects the environment, and vice versa, on global to local scales. Currently, Justin leads a project that links the Global Trade Analysis Project (GTAP) out of Purdue University with the Integrated Valuation of Ecosystem Services and Tradeoffs (InVEST) model from the Natural Capital Project, aiming to build strong quantitative evidence on how changes in ecosystem services affect economic performance at the macroeconomic level and how global policies can be designed to sustainably manage our natural capital.

ONIL BANERJEE

Director of RMGEO Consultants



Onil Banerjee is the Director of RMGEO Consultants where he plans to expand IEEM coverage, application and capacity around the world. Mr. Banerjee and colleagues initiated the Integrated Economic-Environmental Modeling (IEEM) Platform project at the Inter-American Development Bank (IDB), where he worked driving the natural capital agenda for 10 years as a Natural Resource Economist. Mr. Banerjee has honorary Research Associate status with the College of Science and Mathematics at Montclair State University (USA) and earned a PhD in Forest Policy and Economics from the University of Florida (USA), a Master's in Public Administration and International Development from Carleton University (Canada), and a Bachelor of Science in Forest Resources Management from the University of British Columbia (Canada). Onil has published 4 book chapters, over 30 peer reviewed journal papers and 50 working papers.

STEPHEN POLASKY**Professor of Environmental Economics at University of Minnesota**



Stephen Polasky is a Regents Professor and the Fesler-Lampert Professor of Ecological/Environmental Economics at the University of Minnesota. His research focuses on issues at the intersection of ecology and economics including the value of ecosystem services and natural capital, biodiversity conservation, land use, sustainability, common property resources, and environmental regulation. He is also a co-founder of the Natural Capital Project. Mr. Polasky served as Senior Staff Economist for environment and resources for the President's Council of Economic Advisers (1998-1999). He has served on the Board of Directors for The Nature Conservancy and the Beijer Institute of Ecological Economics, and other prestigious organizations. He was a coordinating lead author on nature's contributions to people for the Global Assessment of the Intergovernmental Science-Policy Platform for Biodiversity and Ecosystem Services (IPBES). He is a member of the National Academy of Sciences, and a Fellow of the Association of Environmental and Resource Economists. He received a Ph.D. in economics from the University of Michigan in 1986.

SESSION 5**MAUD ABDELLI****Lead at the Greening Financial Regulation Initiative, WWF**



Maud Abdelli is the lead at the Greening Financial Regulation Initiative at WWF. Previously, she was the Deputy Head of Corporate Financial Analysis Department and a Financial Market Infrastructures expert at Banque de France and has held several positions at ACPR. She is an expert in Public Affairs and Financial Regulation, participating in the supervision of European financial institutions and representing the French Central Bank on many occasions. Ms. Abdelli has a master's degree in international business law from Toulouse University, a master's degree in business administration and management from Toulouse Business School and a Certificate of Advanced Studies in Sustainable Finance from Haute école de gestion de Genève.

FELIPE ARANGO**Lead of Pilots, TNFD**

Felipe's main experience lies in sustainable development. Before joining TNFD in October 2021 as Lead of Pilots, Felipe worked with the IFC in support of the Government of Colombia with the development of its green finance taxonomy. Prior that, Felipe co-founded and acted as global CEO for a sustainable development consulting network, BSD Consulting, advising a range of financial and non-financial clients across Latin America and globally on sustainable development solutions design and implementation, particularly around sustainable supply chains and sustainability reporting. Felipe holds degrees in Business Administration and Management and Political Science and Government from Boston University.

JEREMY GRANTHAM**Co-founder and Chairman of GMO, LLC**

Jeremy is co-founder and Chairman of investment management firm GMO, LLC. He was elected a member of the American Academy of Arts and Sciences in 2015, was appointed Commander of the Order of the British Empire (CBE) in 2016, and received with Hannelore the Carnegie Medal for Philanthropy in 2017, all for leadership in climate change activities. In 1998 Jeremy and his wife Hannelore established the Grantham Foundation for the Protection of the Environment which seeks to protect and improve the health of the global environment. The foundation's grants focus on climate change and biodiversity conservation, with an emphasis on international initiatives. The Foundation funds programs that include the establishment of research institutes at LSE and Imperial College London, and the center at the Indian Institute of Science in Bangalore. Jeremy is also a trustee of The Nature Conservancy. He earned his undergraduate degree from the University of Sheffield (U.K.) and an M.B.A. from Harvard Business School and holds honorary degrees from the New School, University of Sheffield (New York) and Imperial College London. He is a member of the American Academy of Arts and Sciences.

SESSION 6

NICK ROBINS

Professor for Sustainable Finance at the Grantham Research Institute, LSE



Nick Robins is Professor in Practice for Sustainable Finance at the Grantham Research Institute at the London School of Economics. He is a co-founder of INSPIRE and co-chair of the NGFS-INSPIRE Study Group on Biodiversity and Financial Stability. The focus of his work is on how to mobilise finance for climate action in ways that support a just transition, promoting the role of central banks and regulators in achieving sustainable development and investigating how the financial system can support the restoration of nature. Mr. Robins is also a board member of Investor Watch and a member of a number of advisory boards including Carbon Tracker, the Climate Bonds Initiative and CreditEnable. He is author of "The Road to Net Zero Finance" for the UK's Climate Change Committee and co-founder of the Financing The Just Transition Alliance.

FABIO NATALUCCI

Deputy Director of the Monetary and Capital Markets Department, IMF



Fabio M. Natalucci is a Deputy Director of the Monetary and Capital Markets Department at IMF. He is responsible for the Global Financial Stability Report that gives the IMF's assessment of global financial stability risks. Prior to joining the IMF, Fabio was a Senior Associate Director in the Division of Monetary Affairs at the Federal Reserve Board. He also was Deputy Assistant Secretary for International Financial Stability and Regulation at the U.S. Department of Treasury. Fabio holds a PhD in Economics from New York University.

SESSION 7

ELÍAS ALBAGLI

Director of the Monetary Policy Division, Central Bank of Chile



Elías Albagli is Director of the Monetary Policy Division at the Central Bank of Chile. Previously was Director of the Department of Economic Studies, and Senior Economist of the Economic Research Department. He was Assistant Professor in Finance and Economics at the University of Southern California, and a Professor in Financial Markets and Macroeconomics at the University of Chile and the Pontifical Catholic University of Chile – where he is currently teaching a course about “Planetary Boundaries and Economic Development”. He has published several articles, working papers and book chapters about macroeconomics and finance. Mr. Albagli holds a PhD in Economics from Harvard University.

GREGORY WATSON

Principal Specialist, IDB’s Biodiversity Cluster and Natural Capital Lab



Greg Watson is a Principal Specialist, leading the Inter-American Development Bank’s Biodiversity Cluster and its Natural Capital Lab. Mr. Watson also leads the IDB’s efforts to mainstream biodiversity across the Bank and in countries. He has helped develop GCF-funded projects in Bioeconomy, debt for nature conversions, biodiversity finance accelerators, and coastal economic recovery plans. Previously, Mr. Watson was a Lead Specialist at the IDB Lab where he led scores of sustainability projects, including the IDB’s first equity investment in oceans, a Forest Investment Program equity investment in a silvopastoral system in Brazil, development of the first Biodiversity Habitat Bank in Latin America, and worked to develop a new asset class for natural capital trading. Prior to this, he led the IDB Lab Environment and Clean Energy team. In that position he created the EcoMicro green microfinance program, which was selected by the UNFCCC as a global “Lighthouse Award”, conceptualized and launched the Climatescope, the first-ever ranking of the investment climate for climate investment in the Latin America and Caribbean region, and also designed the first private sector Forest Investment Program project in the world, in Mexico.

ELIZABETH ACEITUNO**Sustainable Finance Specialist, WWF**



Elizabeth Aceituno is a Sustainable Finance Specialist at WWF and a Finance Sector Engagement Lead at the Science Based Targets Network. Previously worked as a Blue Bond Project Manager and Corporate Engagement Director at The Nature Conservancy, she also was Director of Capital Markets Credit Management and Vice-President of Relationship Management at BNP Paribas, and a Credit Analyst at Barclays Investment Bank. Ms. Aceituno co-founded and was co-chair of Microfinance Business Networking Group at BNP Paribas. Elizabeth has a degree in Environmental and Ecological Economics from Universidad Nacional Autónoma de México and a master's degree in Business Administration from ESCP Business School.

JOHNNY AGUILAR**Environmental Economist, Central Bank of Costa Rica**



Johnny Aguilar Madrigal is Environmental Economist with 9 years of experience in Natural Capital accounting at the Central Bank of Costa Rica (BCCR), and he is also a member of the BCCR Climate Change Strategic Analysis Group (GAECC-BCCR). Previously, Mr. Aguilar was a Research economist at the Research Institute of Economics and the Center of Research in Environmental Pollution of the University of Costa Rica. He has a bachelor's degree in economics from the University of Costa Rica and a master's degree in Political Economy with a minor in Ecological Economics and Sustainable Development from the International Center for Political Economy and Sustainable Development from the National University of Costa Rica (CINPE-UNA).

KLAUS SCHMIDT-HEBBEL**Professor of Economics, Universidad del Desarrollo**



Klaus Schmidt-Hebbel is a Professor of Economics at Universidad del Desarrollo. He is also a board member of Banco BCI and Reforestemos Foundation, and is a member of the Advisory Council of Climate Action, the Technical Group for the Strategy of Economic Tools to Accelerate the Energy Transition, the Commission of Institutionalism and Philanthropy of Wilderness Areas, and the Council for the Development of National Manufacturing. Previously, Mr. Schmidt-Hebbel held the position of Chief Economist of the Organization of Economic Cooperation and Development (OECD) and Director of the OECD Economics Department in Paris in 2008-2009. He also was Chief Economic Research at the Central Bank of Chile and Principal Economist in the Research Department of the World Bank in Washington. Mr. Schmidt-Hebbel has published 16 books and hundreds of scientific publications in international journals and books in the fields of international finance, macroeconomics, monetary policy, economic growth, and development. He holds a PhD in Economics from MIT.
