

Pardee Center Task Force Games for a New Climate

Task Force Members

Carina Bachofen joined the Red Cross/Red Crescent Climate Centre as technical advisor in December 2011. She supports the Partners for Resilience program in Nicaragua and Guatemala. Carina specializes in capacity building and training in the areas of vulnerability and adaptation. In addition to working for the Climate Centre, Carina is Global Coordinator for the Ecosystems and Livelihoods Adaptation Network (ELAN), a partnership between the International Union for Conservation of Nature (IUCN), World Wildlife Fund (WWF-US), the International Institute for Environment and Development (IIED) and CARE International. Carina holds a Masters degree in Global Politics from the London School of Economics and Political Science (LSE).

Nick Fortugno is a game designer and entrepreneur of digital and real-world games based in New York City, and a founder of Playmatics, a NYC game development company. Playmatics has created a variety of games including the CableFAX award winning *Breaking Bad: The Interrogation* and the New York Public Library's centennial game *Find the Future* with Jane McGonigal. For the past 10 years, Nick has been a designer, writer and project manager on dozens of commercial and serious games, and served as lead designer on the downloadable blockbuster *Diner Dash* and the award-winning serious game *Ayiti: The Cost of Life*.

Nick is also a co-founder of the Come Out and Play street games festival hosted in New York City and Amsterdam since 2006, and co-creator of the Big Urban Game for Minneapolis/St. Paul in 2003. Nick teaches game design and interactive narrative design at Parsons The New School of Design, and has participated in the construction of the school's game design curriculum. His most recent writing about games can be found in the anthology *Well-Played 1.0: Video Game, Value, and Meaning*, published by ETC-Press.

Jarrold Goentzel is founder and director of the MIT Humanitarian Response Lab, which strives to make supply chains more responsive to human needs. His research focuses on supply chain design and management, transportation procurement and planning, humanitarian needs assessments, information management and the use of technology to facilitate decision-making. Based in the MIT Center for Transportation and Logistics, Jarrold has developed graduate-level courses in supply chain finance, international operations and humanitarian logistics and has extensive experience using simulation games to develop intuition and leadership skills. He also directs the MIT Renewable Energy Delivery project.

Previously, Jarrod was Executive Director of the MIT Supply Chain Management Program, where he was responsible for design and management of the nine-month professional master's degree program. He joined MIT in 2003 to establish the MIT-Zaragoza International Logistics Program, which developed novel education, research, and outreach programs with the Zaragoza Logistics Center in Spain. He has also led supply chain consulting and product development teams with a large ERP company and technology startups. Jarrod received a PhD from the School of Industrial and Systems Engineering at the Georgia Institute of Technology.

Paulo Goncalves is Associate Professor of Management and Academic Director of the Advanced Studies Master in Humanitarian Logistics and Management at the University of Lugano, Switzerland. He is also research affiliate at the MIT Sloan School of Management. He obtained his PhD in Management Science and System Dynamics from MIT Sloan School of Management and his MSc degree in Technology and Policy from MIT. He has won the 2004 Doctoral Dissertation Award given annually by the Council of Logistics Management.

His work focuses on understanding behavioral aspects of common operational decisions. Current research interests include the development of supply chain experiments for understanding and improving managerial decision-making. His work combines a number of techniques such as simulation, optimization, econometrics and non-linear dynamics. He teaches courses in operations management, project management, decision models and system dynamics, at graduate (MBA and PhD) and executive levels. He has published in the areas of supply chain management, behavioral operations, and nonlinear dynamics. His publications appeared in *Production and Operations Management*, *Journal of Business Logistics*, *System Dynamics Review*, *Sloan Management Review* and *California Management Review*.

Natasha Grist is a Research Fellow in the Overseas Development Institute of the UK, specialising in climate change, adaptation and international development. Natasha is Head of Research for the Climate and Development Knowledge Network (CDKN – <http://cdkn.org>), of which ODI is a core partner, where she oversees a £15m research programme. Research under CDKN is designed to be applied and demand-led, to meet needs of developing country governments, and focuses on disaster risk reduction, climate compatible development policies and practices and climate finance.

Prior to joining ODI, Natasha was at the Tyndall Centre for Climate Change (UK). She undertook applied research with development policy makers in the UK and West Africa creating scenarios for development futures and examining how to incorporating climate change into development planning and practice. Her PhD and MSc research was based in Brazilian Amazonia, focussing on links

between livelihoods, urbanisation and natural resource management. More details including lists of publications, can be found at <http://www.odi.org.uk/about/staff/details.asp?id=440&name=natasha-grist>

Colleen Macklin is an Associate Professor in the School of Art, Media and Technology at Parsons The New School for Design, and Director of PETLab (Prototyping Evaluation, Teaching and Learning lab (PETLab – <http://petlab.parsons.edu>). Projects include a curriculum in game design called Activate!, a set of lo-fi games for the Red Cross Climate Centre, and big urban games such as Re:Activism and the "fiscal" sport Budgetball. She is a member of the game design collective Local No. 12 (<http://localno12.com>) known for their collectible card game the Metagame (<http://metaga.me>). Her work has been shown at Come Out and Play, UCLA, SoundLab, The Whitney Museum for American Art and Creative Time.

Janot Mendler de Suarez is currently a research consultant with Oxfam America exploring the emergence of volatility as the signature - across trends from weather and agriculture, water and energy, or markets and the political street - of a changing climate. She co-chairs the Global Oceans Forum working group on Oceans, Climate and Security, is a reviewer for *Ocean & Coastal Management* and contributes to scholarly research on issues of equity and sustainable development. She was central to the development of the Global Environment Facility's International Waters Learning Exchange and Resource Network (GEF-IW:LEARN), and championed integration of climate adaptation at the waterbody scale, gender mainstreaming, capacitation of parliamentarians to harmonize regional natural resources policy reform, and the use of participatory peer learning techniques ranging from open space dialogue to the use of audio/visual media and serious games. She pioneered an experimental distance M.Sc. degree program as a Senior Lecturer and then Honorary Research Associate with the Centre for Developing Areas Research in the Department of Geography at Royal Holloway, University of London from 1998-2005. Janot earned a BA from Mount Holyoke College in Biological Sciences and Political Science, and holds a Master's degree from the Fletcher School of Law and Diplomacy. She has worked in more than 60 countries.

Kimberly Pfeifer is the Head of Research at Oxfam America, where she oversees the production of research and trends analysis for policy, advocacy and campaign purposes. She has written a number of Oxfam International Policy Briefing Papers focused on trade and agricultural issues, and has managed numerous research projects, including on the socio-economic impacts of the adoption of Bt cotton for resource-poor farmers. She serves as the editor of Oxfam America's Research Backgrounder series.

Prior to joining Oxfam, Kimberly worked for the AFL-CIO as a researcher with the Center for Strategic Research. She has also worked for the Aga Khan Foundation in Zanzibar, Tanzania. She received her MA and PhD from the University of Florida in Political Science and African Studies. She has a number of publications and papers critiquing models of development, and on land and natural resource politics.

Sarah Schweizer is a Program Associate at the International START Secretariat. She is primarily responsible for developing and implementing activities under START's Disaster Risk Portfolio. In addition, Sarah helps to facilitate the START Grants for Global Environmental Change Research in Africa and coordinates Learning Forums and Monitoring and Evaluation plans. Previously, Sarah was a Research Associate for the Colorado State University Department of Human Dimensions of Natural Resources, where she managed the NSF project: Climate Change Education Partnership. She has investigated climate change resilience, communication, and decision-making within the U.S. National Park Service and helped to develop the agency's national climate change response strategy. Sarah holds a Master of Science in Human Dimensions of Natural Resources and a Bachelor of Science in Environmental Communication from Colorado State University.

Pablo Suarez is Associate Director of Programs for the Red Cross/Red Crescent Climate Centre, as well as consultant for Oxfam America, Visiting Research Fellow at Boston University's Pardee Center, research scholar at the International Institute for Applied Systems Analysis (IIASA) in Austria, and faculty member at University of Lugano (Switzerland), the Parsons School of Design (New York) and the Hanken School of Economics (Helsinki). He has consulted for the UN Development Programme, the World Food Programme, the World Bank, and about 20 other international humanitarian and development organizations, working in more than 45 countries. His current work addresses institutional integration across disciplines and geographic scales, and the use of innovative tools for climate risk management – including the design and facilitation of participatory games for learning and managing complex dynamic systems. Pablo holds a water engineering degree, a master's in planning, and a PhD in geography.

Maarten van Aalst is Director of the Red Cross/Red Crescent Climate Centre, the reference centre on climate risk management for the international Red Cross and Red Crescent movement, responsible for operational support on climate risk management; innovation, analysis and documentation of experience; and liaising with scientific and policy communities on climate change, disaster risk management and development planning. He has also worked on climate risk management with several other international organizations such as the World Bank, Asian Development Bank, African Development Bank, Inter-American Development Bank, OECD, UNDP, DFID and DGIS.

Maarten is Coordinating Lead Author of the IPCC Special Report on Extremes and Lead Author of the IPCC Fifth Assessment Report, and holds an adjoint Research Scientist position at the International Research for Climate and Society at Columbia University. He has also taught climate risk management at, among others, the World Bank Institute, the IMF/World Bank/African Development Bank Joint Africa Institute, United Nations University, ITC, and Wageningen University. He received his PhD in Atmospheric Science from Utrecht University, where he worked with Nobel Laureate Paul Crutzen.

A central theme in all of Maarten's work is bridging the gap between what science can provide, and its actual use in policy and practice. Games provide one of the most exciting opportunities to do just that.

Hassan Virji is Executive Director for Global Change System for Analysis, Research and Training (START), an international non-governmental non-profit organization dedicated to building capacity in developing countries to deal with global environmental change and sustainable development. He studied at the Universities of Dar es Salaam, Nairobi and Wisconsin. He was on the academic and research faculty at the University of Nairobi and the University of Wisconsin, and was a Senior Fellow at the Wissenschaft Kolleg in Berlin. He has worked as the Associate Program Director for the Climate Dynamics Program of the US National Science Foundation, Deputy Executive Director of the International Geosphere-Biosphere Programme, and Executive Secretary of the US Inter-agency Subcommittee on Global Change Research where he was involved in setting up the US Global Change Research Program. Hassan is a Lifetime National Associate of the National Research Council of the National Academies of the USA. Currently, he is also a member of the Governing Boards of international centers of excellence located at CSIR/South Africa, Academia Sinica/Taipei, and UK, and on editorial boards of *Current Opinion in Environmental Sustainability* and *Advances in Climate Change Research*.