



# Regional Symposium on Climate Change

## International Speaker Biographical Sketches



Sea level rise primer

### Robert Arthur

Robert is an Associate Professor of Geography at the American University of Ras Al Khaimah. He has been active in research using LiDAR data to model the effects of Sea Level Rise on the RAK coastline. One article on the subject has already been submitted with the findings from that article presented at a conference in Al Ain, at UAEU in December 2015. He is the lead author on another articles entitled "GIS Modeling of Sea-Level Rise in Ras Al Khaimah, UAE: Al Hamra Development, a Pilot Project." Which was submitted to the journal *Miscelannia Geographica* April 2015. Robert has taught at Universities in Canada, the US, Fiji and the UAE. He received his MSc and PhD from the University of Calgary, in Alberta, Canada.



Marine biodiversity

### William Cheung

William is an Associate Professor at the Institute for the Oceans and Fisheries at the University of British Columbia in Canada, and is the Director (Science) of the Nippon Foundation-UBC Nereus Program. His research focuses on understanding the responses and vulnerabilities of marine ecosystems and fisheries to global change, and examining trade-offs in managing and conserving living marine resources. His work cuts across multiple disciplines, from oceanography to ecology, economics and social sciences, from local to global scales. He was Lead Author in the Working Group II of the Fifth Assessment Report of the IPCC on Biodiversity and Ecosystem Services (IPBES) and Global Biodiversity Outlook. He received his PhD in Resource Management and Environmental Studies at University of British Columbia.



Food security; health co-benefits;  
Sea level rise primer

### Bill Dougherty

Bill is the President of the Climate Change Research Group, a research and consulting firm based in the Boston area of the US. He has worked over 20 years on climate change related issues, with an emphasis on greenhouse gas mitigation and adaptation to climate change. He has assisted governments in developing national climate change strategies, led vulnerability assessments, formulated project documents, analyzed energy efficiency and renewable energy options, and contributed to the development of methodological approaches, training programs and software tools that are used throughout the world. He has been invited as a speaker or expert participant in meetings of the World Bank, the World Energy Summit, and the United Nations Environment Programme, and others. Bill received a PhD in City & Regional Planning from the University of Pennsylvania in 1991.



Regional ocean modeling;  
Desalination;

### José Edson

“Ze” is a postdoctoral fellow in the Department of Physical Oceanography at the University of Sao Paulo, Brazil. His research focuses on developing and implementing hydrodynamic models which are the oceanic equivalents of atmospheric regional climate models and can be used to estimate the change in the ocean’s physical properties (for example salinity and temperature) due to increasing concentrations of greenhouse gases in the atmosphere. He has recently worked on Global Scale Coupled Climate Models in a joint program between the University of Sao Paulo and Los Alamos Laboratory in the US. He received a PhD in Physical Oceanography from the University of Sao Paulo in Brazil in 2000.



Terrestrial biodiversity

### Matthew Fitzpatrick

Matthew is an Assistant Professor in the Appalachian Laboratory at the University of Maryland Center for Environment Science in the US. His research is focused on the development and application of quantitative methods for studying the causes and consequences of biological diversity, with an emphasis on: (1) understanding how historic and current processes shape species distributions, patterns of biodiversity, and range expansion of native and introduced species, and (2) developing spatially explicit predictions regarding the effects of environmental change on natural resources. He received a PhD in Ecology and Evolutionary Biology from the University of Tennessee.



Regional water-energy nexus

### Francisco Flores

“Paco” is a Senior Scientist and a water resources engineer in the Stockholm Environment Institute – US Center (SEI-US) Water Group, based in Davis, Calif. His work combines hydrology, agricultural engineering, and water resources engineering for the development of new methods and tools to better understand and manage our water resources in a changing world, in the United States and internationally. He applies his technical, analytical and quantitative skills to modeling projects using SEI's WEAP (Water Evaluation and Planning) system to address critical challenges related to water, energy, food security, and the environment for sustainable development. Francisco has worked extensively on water resources systems in California, Latin America, Africa, and in the Middle East. He has a Ph.D. in soil and water engineering from Cornell University.



National water-energy nexus

### Stephanie Galaitsi

Stephanie is a researcher in the SEI-US Water Resources Group, focused on water systems modelling, particularly in the Middle East, and applications of the water-energy-food nexus framework. Stephanie began working with SEI while researching domestic water demand in the West Bank for the Multi-Year Water Allocation Systems (MYWAS) optimization model for Israel, Jordan and the Palestinian territories as part of her master's thesis. She was hired as an intern in the summer of 2013, and became a research scientist in March 2014. Stephanie has an M.S. in environmental and water resources engineering from Tufts University, and a B.A. in Middle East history from Carleton College. She has lived in Morocco, Yemen, Greece, and the West Bank and speaks French, Arabic, and modern Greek.



health co-benefits

### Paul Kucera

Paul is a Project Manager in the Research Applications Laboratory at the National Center for Atmospheric Research in Boulder Colorado. He has over 20 years of field research experience. His primary technical expertise is in weather radar applications, precipitation estimation/validation, polarimetric weather radar, hydro-meteorology, model verification, and weather modification assessment programs. Recent research has focused on precipitation studies in arid climates, evaluation of cloud seeding for rainfall enhancement, characterization of storms in West Africa and Panama, snowfall estimation in St Johns, Newfoundland, cloud studies using CloudSat, and diagnostic evaluation of hurricane forecasts. Paul received his Ph.D. in Civil and Environmental Engineering from the University of Iowa in 2002.



Sea level rise primer

### Daniel Lincke

Daniel is a researcher at the Global Climate Forum (GCF) in Berlin, Germany. He studied Computer Science at the Friedrich-Schiller-University Jena and graduated in 2003 (Diploma). After working two years in an industrial research company he became a PhD student at Potsdam Institute for Climate Impact Research. After finishing his PhD (supervised at the Technical University Hamburg-Harburg) in 2012 he joined GCF where he is responsible for the development, maintenance and application of the DIVA model, an integrated global model for the assessment of coastal vulnerability. Since 2017 he has been also affiliated with the Cluster of Excellence "The Future Ocean" at Christian-Albrechts-Universität zu Kiel (CAU). He contributed to the development of the Sea Level Rise Primer under Dr. Jochen Hinkel.



Marine biodiversity

### Daniel Pauly

Daniel is a Professor of Fisheries in the Fisheries Centre at the University of British Columbia in Canada. Daniel's work is dedicated mainly to the management of fisheries and to ecosystem modeling. He is the author or co-author of over 1,000 scientific and other articles, books and book chapters on fish, fisheries and related topics. Two books, reflecting his current interests were published in 2010: "Five Easy Pieces: Reporting on the Global Impact of Fisheries" and "Gasping Fish and Panting Squids: Oxygen, Temperature and the Growth of Water-Breathing Animals". Among many other awards, in 2012 he received the Grand Prix 2011 of the French Ecological Society, and the Nierenberg Award for Science in the Public Interest for the Scripps Institution for Oceanography in La Jolla, California. Dr. Pauly is the recipient of five honorary doctorate degrees.



Coastal vulnerability index

### Gregory Verutes

Gregg is a Data Visualization Specialist at the National Audubon Society in the San Francisco Bay Area of the US. As a coastal geographer, he is currently supporting Audubon's scientific data visualization efforts. He specializes in blending the fields of conservation and technology using spatial analysis and modeling techniques. Gregg enjoys building tools to communicate sustainability science through storytelling, maps, and serious games. He has previously worked for Stanford University, World Wildlife Fund, and National Geographic. Gregg received his M.S. in Geographic Information Science from San Diego State University and his B.S. in Policy Analysis and Management from Cornell University.



Regional atmospheric modeling;  
Al Ain water

### David Yates

David is a Scientist in the Research Applications Laboratory at the National Center for Atmospheric Research (NCAR), Boulder Colorado. His research has focused both on local scale hydrologic problems (flash floods, land use-land cover, climate change), as well as climate change impacts and adaptation on water and agricultural systems. Dr. Yates has been a part of the development team of SEI's Water Evaluation and Planning model and has focused on applying WEAP to help water utilities with long-range planning that includes climate change impacts and adaptation strategies and has also developed educational resources regarding climate change impacts on water utilities. David received his PhD in Civil and Environmental Engineering from the University of Colorado, Boulder in 1996.