

AGENDA

Tuesday, June 22

Opening Plenary

Welcome Remarks

Alex Halliday, Founding Dean, Columbia Climate School and Director, Earth Institute

Alex de Sherbinin, Senior Research Scientist and Associate Director for Science Applications, Center for International Earth Science Information Network and conference Co-Chair

Keynotes

Jacqueline Patterson, Senior Director, Environmental and Climate Justice Program, NAACP

A.R. Siders, Assistant Professor, University of Delaware

Panel: Adaptation and Retreat in Coastal Cities: Perspectives from Local Government

Angela Danyluk, Senior Sustainability Specialist | Planning, Urban Design & Sustainability | City of Vancouver

Nichole Hefty, Deputy Resilience Officer | Miami-Dade Dept. of Regulatory and Economic Resources | Miami-Dade County

Eric Wilson, Deputy Director, Land Use & Buildings | Mayor's Office of Climate Resiliency | New York City

Carlos Martín, Senior Fellow, Urban Institute (Moderator)

Session 1A: "Why do people live here anyway?" (panel)

Deborah Morris, Columbia University GSAPP

Karen Blondel, Public Housing Civic Association

David Todd Lawrence, University of St. Thomas

Thaddeus Pawlowski, Columbia University - Center for Resilient Cities and Landscapes

Session 1B: Building Community Resilience I

The Power of Frontline Leaders to Shape Our Future

Kristin Marcell, Climigration Network
Harriet Festing, The Anthropocene Alliance

The Long Goodbye on a Disappearing, Ancestral Island: A Just Retreat from Isle de Jean Charles

Jessica Simms, State of Louisiana, Office of Community Development
Chris Brunet, Isle de Jean Charles resident
Pamela Jenkins, University of New Orleans
Helen Waller, Tulane University

Envisioning a Resilient Oregon Coast: Co-developing alternative futures for adaptation planning and decision-making,

Peter Ruggiero, Jenna Tilt, Steven Dundas, John Bolte, Dan Cox, Katherine Stanton, Meredith Leung, Dylan Sanderson, Amila Hadziomerspahic (all: Oregon State University)

Social and Physical Dimensions of Climate Resiliency: A Case Study of Environmental Justice in the Bronx River Watershed

Maggie Scott-Greenfield, Bronx River Alliance
Christian Murphy, Bronx River Alliance
Dariella Rodriguez, The Point CDC

Community Response to Local Coastal Resilience Programs: Results of Household Survey in the New York Metropolitan Region

William Solecki, Hunter College - City University of New York
Parisa Setayesh, City University of New York

Building Community Consensus for Flood Risk Adaptation

Bennett Brooks, Consensus Building Institute
Nathan Mitchell, Piermont Waterfront Resilience Commission

Session 1C: Climate Insurance: (Mal)adaptation, delaying inevitable retreat or migration, or building resilience? (panel)

Max Maurman, Beth Tellman, and Dan Osgood, Columbia University
Awol Adem, World Food Programme Ethiopia
Saleemul Huq, International Centre for Climate Change and Development (ICCCAD)
Mathieu Dubreuil, World Food Programme
Birgit Mueller, Helmholtz Centre for Environmental Research
Leigh Johnson, University of Oregon

Session 2A: Buyouts

Buy-In Community Planning, Inc.: Tools for a Better Buyout

Kelly Leilani Main, Buy-In Community Planning
Osamu Kumasaka, Buy-In Community Planning

Risa Hiser, Buy-In Community Planning

Drivers of Variations in U.S. Floodplain Buyout Administration and Implications for Equity and Participant Outcomes

A.R. Siders, University of Delaware

Logan Gerber-Chavez, Biden School of Public Policy, University of Delaware

Adam Andresen, Biden School of Public Policy, University of Delaware

Local Political Decision Making about Property Buyouts: Evidence from a Survey of US City and County Elected Officials

Megan Mullin, Duke University

Managed Retreat: Examining Homeowners Relocation within the NY Rising Buyout and Acquisition Program

Alex Pennington, Governor's Office of Storm Recovery

Relocation outcomes for participants in U.S. property buyouts: a systematic, nationwide analysis,

Caroline Kraan, University of Miami

Erica Johnston, Stanford University

Miyuki Hino, University of North Carolina at Chapel Hill

A.R. Siders, University of Delaware

Katharine Mach, University of Miami

State and Local Buyout Programs – What Lessons on Equity and Ecological Restoration for Future Floodplain Management?

Linda Shi, Cornell University

Rebecca Morgenstern Brenner, Cornell University

Anjali Fisher, Cornell University

Jamie Vanucchi, Cornell University

Chris Shepard, The Nature Conservancy

Mali'o Kodis, The Nature Conservancy

Amelia Greiner Safi, Cornell University

Session 2B: Communication Strategies

Art: The Missing Link

Yky, Artist

Communicating Climate Change and Human Mobility

Jessica Olson, Sierra Club

Kayly Ober, Refugees International

Critical Perspectives on Managed Retreat at the Intersection of Psychology & Environmental Justice

Melissa Tier, Princeton University

Sara Constantino, Princeton University

Elisabeth Krueger, Princeton University

Empowering Climigration: a new communications playbook co-created with lived experience experts,
Hannah Teicher, Climigration Network
Kristen Marcell, Consensus Building Institute

Underwater HOA: Using socially engaged art to problem-solve in an imperiled, polarized and imperfect world

Xavier Cortada, University of Miami Department of Art and Art History
Adam Roberti, Cortada Socially Engaged Art Lab & Studio (CSEALS)
Ryan Deering, Cortada Socially Engaged Art Lab & Studio (CSEALS)

Waves of Grief and Anger: Communicating Through the “End of the World” as We Knew It
Susanne Moser, Susanne Moser Research & Consulting

Session 2C: Finance & Insurance

A spatial analysis of unequal national flood insurance and mitigation benefits in the Carolinas
Andrew Kruczkiewicz, Columbia University / Red Cross Red Crescent Climate Centre
Carolynne Hultquist, Columbia University - CIESIN

Designing a Funding Framework for the Impacts of Slow-Onset Climate Change -Insights from Recent Experiences with Coastal Retreat
Swenja Surminski, London School of Economics / Grantham Research Institute
Jonathan Boston, Architesh Panda

Evidence of Climate Gentrification in Florida’s Rental Market
Marco-Tedasco, Columbia University
Jesse Keenan, Tulane University
Carolynne Hultquist, Columbia University

Insuring our Future: Resilient Buildings and Insurance
Monika Serrano, Turner Construction
Michael Gudas, Liberty Mutual
Glenn Pine, Turner Surety and Insurance Brokerage

The Effects of Sea Level Rise on Property Value and Managed Retreat in Honolulu
Nori Tarui, University of Hawai‘i at Mānoa
Makena Coffman, University of Hawai‘i at Mānoa
Quang Loc Lam, University of Hawai‘i at Mānoa

Session 3A: Building Community Resilience II

Enabling homeowners to adapt to coastal flooding: The case of Rockaway in New York City

Malgosia Madajewicz, Center for Climate Systems Research, Columbia University

Philip Orton, Stevens Institute of Technology

Ana Fisyak, Rise Rockaway

Michaela Labriole, New York Hall of Science

Judith Hutton, NYSCI

Judah Asimov, Rise Rockaway

Inclusive Approaches in Community-Focused Climate Resilience Partnerships

Rupu Gupta, Knology

Incorporating Individual and Household Financial Literacy, Preparedness and Well-Being into Planning for Managed Retreat

Joshua DeVincenzo, National Center for Disaster Preparedness, Earth Institute, Columbia University

Christopher Tingley, National Center for Disaster Preparedness, Earth Institute, Columbia University

Managed Retreat, Heritage Justice, and Community Resilience

David Glassberg, UMass Amherst

Mediating Retreat: Just Relocation, Collective Ownership, and Spatial Practice at Proyecto ENLACE, Puerto Rico

Lizzie Yarina, MIT

Larisa Ovalles, MIT Urban Risk Lab

Miho Mazereeuw, Department of Architecture, MIT

Town Governmental Capacity and Barriers to Adaptation: A case study of the Community Rating System

Jon Nelson, Brown University

Session 3B: Case Studies in Retreat - Flash Presentations

Beyond compound events- extreme weather, conflict and displacement in Somalia

Lisa Thalheimer, Environmental Change Institute, University of Oxford

Moritz Schwarz, University of Oxford/ Institute for New Economic Thinking

Felix Pretis, Department of Economics, University of Victoria

Can pre-emptive retreat strategies be practically implemented? Issues and approaches

Judy Lawrence, New Zealand Climate Change Research Institute, Victoria University of Wellington

Robert Bell, National Institute of Water and Atmospheric Research, Hamilton, New Zealand

Sam Olufson, NZ Climate Change Research Institute, Victoria University of Wellington

Rick Kool, NIRAS

Matthew Hardcastle, University of Auckland, Auckland, New Zealand

Adolf Stroombergen, Infometrics, Wellington, New Zealand

Dichotomous or progressive choices: in situ protection and retreat as strategies for climate adaptation,
Nora Schwaller, University of North Carolina, Chapel Hill
Todd BenDor, University of North Carolina, Chapel Hill

Emotions and feelings in Enseada da Baleia's preventive and self-managed relocation
Giovanna Gini, Queen Mary University of London

Prototyping a scenario-based framework for adaptive Managed Retreat of a New Zealand Stormwater and Wastewater Network

Rick Kool, Coastal Engineer

Judy Lawrence, New Zealand Climate Change Research Institute, Victoria University of Wellington

Martin Drews, Technical University of Denmark

Robert Bell, National Institute of Water and Atmospheric Research, Hamilton, New Zealand

Shifting landscapes of coastal flood risk: environmental (in)justice of urban change, sea level rise, and differential vulnerability in New York City

Pablo Herreros-Cantis, Urban Systems Lab - The New School

Timon McPhearson, Urban Systems Lab - The New School

Veronica Olivotto, The New School

Zbigniew Grabowski, Urban Systems Lab - The New School

When capacity limits ambition: lessons from flood-related property buyouts in Grand Forks, BC,

Melissa Le Geyt, University of Waterloo

Brent Doberstein, University of Waterloo

Session 3C: Climate-forced Displacement: Decolonizing Research to Protect and Promote the Right to Self-determination (panel)

Patricia Cochran, executive director, Alaska Native Science Commission

Robin Bronen, Executive Director, Alaska Institute for Justice

Annauk Olin, MIT

Sarah Aarons, Assistant Professor, University of California

Eva Burk, Research Assistant, University of Alaska Fairbanks

Session 3D: Before You Jump Ship....: How to Engage Coastal Communities and Planners on Retreat Before It Has to Happen (WORKSHOP)

Susi Moser, PhD, Susanne Moser Research and Consulting, UMass-Amherst, AUME

Sarah Watson, South Carolina Sea Grant Consortium

Session 4: Youth Voices for Climate

Liz Koslov: Assistant Professor, UCLA

Xiye Bastida: Climate Justice Activist, Re-Earth Initiative

Aryaana Khan: Undergraduate Student / Youth Climate Organizer, CUNY City College / Alliance for Climate Education (ACE)

Session 5A: Regional Perspectives on US Relocation and Migration: A NOAA RISA Panel (panel)

Radley Horton (moderator), Consortium for Climate Risk in the Urban Northeast

Victoria Keener, Pacific RISA

Maria Carmen Lemos, Great Lakes Integrated Sciences and Assessments

Danielle Meeker, Alaska Center for Climate Assessment and Policy

Malgosia Madajewicz, Center for Climate Systems Research, Columbia University

Session 5B: History (and Other) Lessons for Retreat

As History Repeats Itself: What Can We Learn from the 1930s White Rocks Island Retreat at Hampton Beach, NH?

Kirsten Howard, University of New Hampshire

Co-Learning in Place: Social-Spatial Histories as a Tool for Equitable Resilience

Erica Avrami, Columbia University Graduate School of Architecture, Planning, and Preservation

Managed retreats by whom and how? Identifying and delineating governance modalities

Christina Hanna, University of Waikato

Iain White, University of Waikato

Bruce Glavovic, Massey University

Resilience, Race, and North Carolina's Post-Disaster Buyout Program, 1990-Present

Amanda Martin, NC Office of Recovery and Resiliency

Retreating from wildfire: when does emergency evacuation become permanent?

John Handmer, IIASA (International Institute for Applied Systems Analysis)

Johanna Nalau, Cities Research Institute (CRI), School of Environment and Science, Griffith University

Sea level rise policy as a question of history and place

Lisa Kelley, University of Colorado Denver

Alisha Summers, University of Hawai'i Manoa

Makena Coffman, University of Hawai'i Manoa

Laurel Mei-Singh, University of Hawai'i Manoa

William Kinney Jr., University of Hawai'i Manoa

Leah Bremer, University of Hawai'i Manoa)

Session 5C: Stories of Sea Level Rise: Creatively Communicating the Impacts of Climate Change and Managed Retreat (panel)

Elizabeth Rush, author

Julie Dermansky, photojournalist

Josephine Holtzman & Isaac Kestenbaum, documentary sound artists

Nathan Kensinger, panel moderator, filmmaker and journalist

Wednesday, June 23

Session 6A: Non-Coastal Retreat: From Wildfires to Mountain Regions

Wildfire Risks and Decision Support Tools for Communities

Kimiko Barrett, Headwaters Economics

Wildfire in the American West: Is Managed Retreat an Option?

Lisa Dale, The Earth Institute, Columbia University

(Un) managed retreat in mountain regions facing climate related risks

Christian Huggel, University of Zurich

Laurens Bouwer, Isabel Hagen, University of Zurich

Sirkku Juhola, University Helsinki

Reinhard Mechler, IIASA

Veruska Muccione, University of Zurich

Ben Orlove, Columbia University

Ivo Wallimann-Helmer

Retreat as Part of a Hybrid Design Approach to Reduce Riverine Flooding in an Urban Watershed

Diane Mas, Fuss & O'Neill, Inc.

Dean Audet, Fuss & O'Neill, Inc.

Societal resistance to and acceptance of planned dike relocations: a systematic review

Teun Terpstra, HZ University of Applied Sciences

Vincent Bax, HZ University of Applied Sciences

Lukas Papenborg, HZ University of Applied Sciences

Jean-Marie Buijs, HZ University of Applied Sciences

Wietse Van de Lageweg, HZ University of Applied Sciences

Mitigation and Adaptation Emissions Embedded in the Transition to a Stable Climate

Corey Lesk, Columbia University

Session 6B: Climate change impacts on residential mobility and commuting in the US (panel)

Mobility patterns across three decades of disasters

Breno Braga and Carlos Martín, Urban Institute

Social vulnerability, disasters, and residential mobility in the US

Elizabeth Fussell, Brown University

Wildfire impacts on residential mobility

Kathryn McConnell, Yale University

Divergent residential pathways from flood-prone Areas: How neighborhood inequalities are shaping climate adaptation

James R. Elliott, Rice University

Kevin Loughran, Temple University

Phylicia Lee Brown, Rice University

More than a nuisance: sea level rise already delays commuters

Mathew Hauer, Florida State University

Valerie Mueller, Arizona State University and International Food Policy Research Institute

Glenn Sheriff, Arizona State University

Qing Zhong, Arizona State University

Session 6C: Modeling In-Migration & Preparing for Risks & Opportunities (panel)

Susan Ekoh, State University of New York, College of Environmental Science & Forestry

Isaac Gendler, California Public Utilities Commission

Mathew Hauer, Florida State University

Osamu Kumasaka, Buy-In Community Planning

Anna Marandi, National League of Cities

Session 7: Keynote: Queen Quet

Queen Quet of the Gullah/Geechee Nation

Session 8: PLENARY: Climate Change, Displacement, Colonialism and Contradiction (panel)

This panel addresses a set of contradictions present in discourses, laws, and regulations, which structure the way we consider and respond to displacements linked to climate change. Speakers from the Isle de

Jean Charles Biloxi-Chitimacha-Choctaw Tribe and Pointe-au-Chien Indian Tribe and Shishmaref, Alaska discuss conditions present on the ground, the impacts of risk and flooding on their communities, and the experiences of trying to move forward and respond to repetitive flooding. Academic speakers frame climate change-driven relocation and displacement as part of ongoing discourses, displacements and impositions of the colonial state, framed by laws and regulations that are contradictory over time, and push multiple kinds of risks onto particular communities.

Annie Weyiouanna, Shishmaref Native Corporation
Chantel Comardelle, Isle de Jean Charles
Nathan Jessee, Tulane
Patty Bohnee, Arizona State University
Alessandra Jerolleman, Jacksonville State University
Simon Manda, Oregon State University
Elizabeth Marino, Oregon State University -- Cascades

Session 9A: A Global View on Equitable Retreat

Measuring Climate Migration Aid

Nicholas Micinski (Université Laval
Sophie Schriever, Laval University

Cumulative Socio-Natural Displacements: Reconceptualizing Climate Displacements in a World Already on the Move

Kimberley Thomas, Temple University
Lisa Kelley, University of Colorado, Denver
Annie Shattuck, Indiana University

Climate Change and Coastal Megacities: Adapting Through Mobility

Susan Ekoh, State University of New York, College of Environmental Science & Forestry

The Role of International Organizations in Equitable Planned Relocation

Gabriela Nagle Alverio, Duke University
Sara Hoagland, Stanford University
Erin Coughlan de Perez, Red Cross Red Crescent Climate Centre
Katharine Mach, University of Miami

Session 9B: Immersive Experiences for Climate Adaptation (WORKSHOP)

Sarah Newkirk, The Nature Conservancy
Alyssa Mann, The Nature Conservancy
Anna Carolina Queiroz, Stanford University - Virtual Human Interaction Lab

Juliano Calil, VIRTUAL PLANET TECHNOLOGIES LLC
Paulo Salvatore, VIRTUAL PLANET TECHNOLOGIES LLC

Session 9C: Climate Assessments and Adaptation Pathways: Focus on New York (panel)

Anna LoPresti, Columbia University
Adam Parris, New York City Mayor's Office of Climate Resiliency
Nicole Cabral, Public Agenda
Danny R. Peralta, THE POINT
Allison Bridges, Mayor's Office of Climate Resiliency and Columbia University

Session 9D: 1,000 Words: Using photos to communicate the impacts of sea level rise

Michael Snyder, Interdependent Pictures
Dale Willman, Columbia University
Dennis Dimick
Virginia Hanusik

Session 10A: Retreat to Justice: Dimensions of Social Equity on the California Coast (panel)

Charles Lester, Ocean and Coastal Policy Center, UCSB
Stefanie Sekich-Quinn, Surfrider Foundation
Tiffany Wise-West, City of Santa Cruz, CA
Alyssa Mann, The Nature Conservancy

Session 10B: From Planning to Implementation

Uwe Brandes, Urban and Regional Planning Program, Georgetown University; J. Peter Byrne, Georgetown University Law Center; Ashley Reineman, California Coastal Commission; Katie Spidalieri, Georgetown Climate Center; Mitchell Austin, City of Punta Gorda, Florida

Session 10C: Relocation Is Not Just a New Address (panel)

Julie Maldonado, Liken Knowledge and UC Santa Barbara
Aranzazu Lascurain, NC State University
Bill Thomas, NOAA
Shavonne Smith, Director, Shinnecock Environmental Department
Rosina Philippe, President, First People's Conservation Council and Vice President, Lowlander Center
Shirell Parfait-Dardar, Chief Grand Caillou/Dulac Band of Biloxi-Chitimacha-Choctaw
Theresa Dardar, President, Lowlander Center

Session 11A: Migration as Adaptation

Flood-induced tipping points and cascading events of relocation in coastal rural and urban areas,

Anamaria Bukvic, Virginia Tech

Jack Gonzales, Virginia Tech

Planning with dignity: cultural encounter and community-led planning with Indigenous communities,

Sarah Kamal, University of British Columbia

Adaptive Migration: Bridging Planning, Policy and Practice for Climate Justice

Marla Nelson, University of New Orleans

Renia Ehrenfeucht, University of New Mexico

Resilience for Whom: A Climate Mobility Framework for Equitable Sea Level Rise Adaptation

Nadia Seeteram, Florida International University

Kevin Ash, University of Florida

Brett Sanders, UC Irvine

Jochen Schubert, UC Irvine

Katharine Mach, University of Miami

The Dutch Plan B: Keeping Retreat on the Table in “the Safest Delta on Earth”

Slmon Richter, University of Pennsylvania

Charting Justice for Refugee Relocation Under Extreme Climate Change

Jamon Van Den Hoek, Oregon State University

Laura Peters, University College London

Session 11B: Ecosystem Conservation Flash Presentations

Apartadó’s River Master Plan: Mitigating risk of flooding in the face of managed retreat and climate change in a biodiversity hotspot

Juliana Vélez, Apartadó Department of City Planning

Sara Arteaga, Apartadó Department of City Planning

How, What, and When? - Defining Substantial Damage for Transfer of Development Rights

Brian Batten, Dewberry

Mary-Carson Stiff, Wetlands Watch

Managing Retreat Through Natural Barriers Which Provide Carbon and Heavy Metal Stocks

Dorothy Peteet, NASA/GISS and Columbia University

Jonathan Nichols, Columbia University

Timothy Kenna, Columbia University

Clara Chang, Columbia University

Retreat of Salt Marshes: Natural, Managed, or Blocked?

Judith Weis, Rutgers University

Salt marsh migration as a critical conservation strategy in NYC

Marit Larson, Rebecca Swadek, Christopher Haight, Georgina Cullman (All: NYC Department of Parks and Recreation)

The case for a paradigm shift in flood adaptation: introducing a new Flood Adaptation Hierarchy

Alison Branco, Andrew Peck, Marci Bortman, Michelle Brown, Stevie Adams, Mike McCann, Elizabeth Smith, Anna Bartlett, Mali'o Kodis (All: The Nature Conservancy in New York)

The Inundation of Contaminated Sites under an Environment of Managed Coastal Retreat: Technical Mitigation and Risk Considerations under Encroaching Seas

Scott Warner, University of Newcastle, NSW, Australia / BBJ Group, California

Ravi Naidu, Global Centre for Environmental Remediation, University of Newcastle

The Roles for Conservation Organizations in Strategic Retreat as a Climate Adaptation Strategy

Mali'o Kodis, Sarah Newkirk, Marci Bortman, The Nature Conservancy

Session 11C: Interactive workshop: Exploring divergent perspectives on just, fair and equitable managed retreat

Erica Bower, Stanford University

Caroline Krann, University of Miami

Katharine Mach, University of Miami

A.R. Siders, University of Delaware

Gabrielle Wong-Parodi, Stanford University

Thursday, June 24

Session 12A: Lessons learned from managed retreat experiments in Northwestern Europe

Introduction: A. Cristina de la Vega-Leinert

The future of sea and river dykes in France, in the 21st century, between doing nothing, enhancing, reopening, relocating and revegetating: what perception of inhabitants and users?

Tristan Douillard, Lydie Goeldner-Gianella, F. Pratlong and D. Grancher, France

Managed realignment (managed retreat) in the United Kingdom — uniquely British?

Susanne Armstrong and Robert J. Nicholls, UK

Moving dikes, not people: Path dependencies and conflicts related to managed retreat at the German Baltic Coast

Geronimo Gussmann, A. Cristina de la Vega-Leinert and Jochen Hinkel, Germany

Managed retreat in Ireland: fragmented governance, state withdrawal and compounding vulnerabilities

Daniel Tubridy, Ireland

How can we enhance delta resilience by changing the position, function and landscape of dikes zones?

Joost Stronkhorst, Teun Terpstra and Michaël van Buuren, The Netherlands

Session 12B: Population Exposure to Various Climate Hazards and the Implications for Managed Retreat (panel)

Beth Tellman, Post doctoral Scientist, Columbia University, The Earth Institute at Columbia University

Alex de Sherbinin, Associate Director, CIESIN, The Earth Institute at Columbia University

Kytt MacManus, GIS Developer, Columbia University

Cascade Tuholske, Postdoctoral Research Scientist, CIESIN, The Earth Institute at Columbia University

Charles Huyck, Executive Vice President, ImageCat

Andrew Bell

Session 12C: Governance, policy and planning around the world

Planned Retreat Approaches to Support Resilience to Climate Change in Canada: Good Practices and Considerations for Proactive Retreat

Mary-Ann Wilson, Natural Resources Canada

John Sommerville, Natural Resources Canada

Brent Doberstein, University of Waterloo

Patrick Saunders-Hastings, Gevity Consulting Inc.

Michael Barnard, Gevity Consulting Inc.

Slow Abandonment as Managed Retreat

Liam Grealy, University of Sydney

Just retreat – how different countries deal with it: examples from Austria and England

Thomas Thaler, University of Natural Resources and Life Sciences

Moving Toward Resilience: Attitudes and perceptions of 'pros and cons' of migration and in-place adaptation, in rural communities facing climate impacts

Sangita Das, Church World Service

Andrew Fuys, CWS

Exploring the potential of a community co-design framework to address equitable community relocation – an assessment of three relocation cases after large-scale environmental change in Asia

Kanako Iuchi, Tohoku University- IRIDeS

John Mutter, Columbia University

Resistance, acceptance and misalignment of goals in climate-related resettlement in Malawi

Hebe Nicholson, University of St Andrews

Session 13A: Lessons in Policy & Law - Flash Presentations

Adaptive Governance Initiative

Camille Manning-Broome, Center for Planning Excellence

Jeannette Dubinin, Center for Planning Excellence

Joni Hammons, Center for Planning Excellence

Exploring Managed Retreat in the Land of Steady Habits

Bruce Hyde, University of Connecticut, Department of Extension

Juliana Barrett, University of Connecticut

Key Decisions in Development Control and Managed Retreat - Western Australia

Ashley Robb, Western Australian Local Government Association

Garry Middle, WA Local Government Association

Law's Disaster: Heritage at Risk

Sara Bronin, UConn Law School

Legal Remedies for Climate-Induced Displacement and Migration

Caroline Petruzzi McHale, Cleary Gottlieb

Lessons Learned from Two Relocations of Indigenous Communities: Newtok, AK and Isle de Jean Charles, LA, Barrett Ristroph, Ristroph Law, Planning, and Research

Managed retreat in a context of three kinds of emergencies: The case of Louisiana's coast

Ioan Fazy, University of York

James Butler, CSIRO

Justin Kozak, The Center for Planning Excellence

Jeannette Dubinin, The Center for Planning Excellence

Camille Manning-Broome, The Center for Planning Excellence

Denise Reed, University of New Orleans
Graham Leicester, International Futures Forum
Stacey Anne-Burge, Castle Water
Beverley Searle, University of Dundee

Session 13B: Buyouts: Risk Blindness, Rational Planning, and Reinvention (panel)

Matthew Fuchs, The Pew Charitable Trusts
Cornelia Dean, The New York Times
Mathew Sanders, The Pew Charitable Trusts
JaLeesa Tate, Maryland Emergency Management Agency
Eric Letvin, FEMA

Session 13C: Bottoms Up: Socio-spatial Interventions to Confront Ecocide (panel)

Aviva Rahmani, INSTAAR University of Colorado at Boulder
Nina Kantcheva Tushev, Tushevs Aerials and UNDP
Eliza Evans, All the Way to Hell LLC
Bebonkwe Brown, Cree/Anishnawbe/Metis visual
M. Charlene Stevens, Arcade Project

Session 13D: Fallback strategies: Planning for climate-driven relocation

Katharine Mach, University of Miami
Robin Bronen, Alaska Institute for Justice
Jola Ajibade, Portland State University
Radley Horton, Consortium for Climate Risk in the Urban Northeast
Richard Moss, Pacific Northwest National Laboratory
Bina Desai, Internal Displacement Monitoring Centre
Marjolijn Haasnoot, Deltares
Brad Wible, Science Magazine
Mizan Khan, International Centre for Climate Change and Development (ICCCAD)

Session 14A: Risk, Vulnerability and Relocation

Enhancing the inclusion of vulnerable communities in adaptation planning
David Samuel Williams, Istanbul Policy Center, Sabancı University

Integrated Climate Risk Assessment and HyperLocal Approaches to Climate Adaptation for South Florida
Tyler Harrison, University of Miami

Angela Clark, University of Miami
Amy Clement, University of Miami
Joanna Lombard, University of Miami
Gina Maranto, University of Miami
Abraham Parrish, University of Miami
Sam Purkis, University of Miami
Marcus Reamer, University of Miami
Olivia Collins, The CLEO Institute
Caroline Lewis, The CLEO Institute
Mayra Cruz, Catalyst Miami
Anaruth Solache, Catalyst Miami

Optimal Coastal Protection Against Storm-Induced Flooding and Sea Level Rise Accounting for Stakeholder Input

Yuki Miura, Columbia University
Philip Dinenis, Columbia University
Kyle Mandli, Columbia University
George Deodatis, Columbia University
Daniel Bienstock, Columbia University
Heather Lazrus, UCAR
Rebecca Morss, UCAR

Socioclimatic Risk across the Conterminous USA

Maximilian Stiefel, University of California, Santa Barbara

Tropical cyclone risk modeling

Adam Sobel, Columbia University
Chia-Ying Lee, Lamont-Doherty Earth Observatory, Columbia University
Jane Baldwin, Lamont-Doherty Earth Observatory, Columbia University
Suzana Camargo, Lamont-Doherty Earth Observatory, Columbia University
Michael Tippett (Dept. of Applied Physics & Applied Mathematics, Columbia University)
Kyle Mandli, Dept. of Applied Physics & Applied Mathematics, Columbia University
Katy Wilson, Columbia University

Understanding the Impacts of Managed Retreat and Resettlement on Informal Communities in Puerto Rico

Santina Contreras, Ohio State University
Monique Lorenzo, Ohio State University

Session 14B: Where will people go? Considerations for Receiving Communities

Climate Change, Planned Relocation and Development Assistance

Robert Stojanov, Mendel University
Alex de Sherbinin, CIESIN, The Earth Institute at Columbia University
Sarah Rosengaertner, Zolberg Institute on Migration and Mobility

Creating Home: Multilevel Governance Structures for Emerging Climate Migration

Alice Kaswan, University of San Francisco School of Law

Mapping Social and Natural Hazards: A Survey of Potential for Managed Retreat in the United States,

Karim Ahmed, The New School

The Effects of Migration During the San Francisco Bay Area Housing Crisis on Regional Wildfire Hazard,

Isaac Gendler, California Public Utilities Commission

Why Smallholders Stop Engaging in Forest Activities - The Role of Migration in Livelihood Transitions in Southwest Ethiopia

Juliane Groth, Helmholtz Centre for Environmental Research (UFZ)

Patrick Sakdapolrak (University of Vienna), Feyera Senbeta

Session 14C: Policy, Equity and Relocation

Changing Uses and Values of O'ahu's Coastlines Under Sea Level Rise

Makena Coffman, University of Hawai'i at Mānoa

Alisha Summers, University of Hawai'i Manoa

Leah Bremer, University of Hawai'i Manoa

William Kinney Jr., University of Hawai'i Manoa

Laurel Mei-Singh, University of Hawai'i Manoa

Lisa Kelley, University of Colorado, Denver

Grounding the "Third Rail": How to Build Community Buy-in for Managed Retreat

Paul Gallay, Undergraduate Major in Sustainable Development

Livelihoods and 'Lifeways': discourses about land and sense of place in managed retreat policies in coastal Louisiana

Meghan Sullivan, Portland State University

Negotiating risk trade-offs in disaster-induced relocation

Balakrishnan Balachandran, University of Illinois at Urbana Champaign

Observations of the Akiak Home Relocation and Managed Retreat Project

Joel Neimeyer, Neimeyer Consulting

The role of policymakers and practitioners in equitable relocation practices

Rachel Isacoff, The Rockefeller Foundation

Session 14D: Working with Water as Site and Material | Cultural Compassion for Retreat

Eve Mosher, Works on Water

Sarah Cameron Sunde, Works on Water

Session 15: Keynote Jola Ajibade

Jola Ajibade, Portland State University

Session 16: PLENARY: Climate Migration and US Federal Policy: Current Gaps and Possible Action (panel)

A framework for how to prepare for, fund, and implement programs eludes us—especially one that equitably considers people who move, the environments and communities they leave, and where they go. The panel summarizes and continues a discussion about challenges and opportunities for federal intervention, rekindled at the Stakeholders' Summit on Federal Policy for Climate Displacement, Relocation, and Migration held in Nov 2020 by the Urban Institute with assistance from Enterprise Community Partners. Summit participants addressed policy gaps with the goal of envisioning a new comprehensive framework as climate policy evolves. The panel consists of representatives from each key Summit stakeholder group, including a grassroots organizer, national advocate, scholars, and federal officials.

Robin Bronen, Alaska Institute for Justice

Mathew Sanders, The Pew Charitable Trusts

Elizabeth Fussell, Brown University

Carlos Martin, Brookings Institution's Metropolitan Policy Program

Marion McFadden, Enterprise Community Partners

Joseph Thompson, US GAO

Micah McMillan, US GAO

Session 17A: Redefining Managed Retreat: Incorporating Transformational, Multi-Benefit Ecological & Equity-Rich Solutions for Urban Watershed Management (panel)

Bonnie Ora Sherk, Life Frames, Inc.

Scott Warner, University of Newcastle, NSW, Australia / BBJ Group, California

Carl Anthony, Breakthrough Communities

Sophie Maxwell, San Francisco Public Utilities Commission

John Englander, Rising Seas Institute

Jared Huffman, US Congressman, Dem-CA, 2nd Congressional District

Betsy Damon, Keepers of the Waters

Session 17B: When, Where and How: Understanding Infrastructure Interdependencies When Planning for Long-Term Managed Retreat (panel)

Mark Abkowitz, Vanderbilt University

Allie Reilly, WSP USA

Leah Dundon, Vanderbilt University

Richard Davis, Principal, Beveridge & Diamond, P.C.

Session 17C: People Before Property: A High-Level Discussion of Economics, Tools, Policy, and Law Around Relocation (panel)

Miyuki Hino, University of North Carolina at Chapel Hill

Carolyn Kousky, Wharton Risk Management and Decision Processes Center

Katharine Mach, University of Miami

Thomas Ruppert, Florida Sea Grant

Friday, June 25

Session 18A: Land and the Built Environment

What would a large-scale coastal retreat policy really look like? A scenario planning case study on coastal Long Island, New York

Donovan Finn, Stony Brook University

Sung-Gheel Jang, Stony Brook University

Jessica Tran, Stony Brook University

Identifying Climate Gentrification Across the East Coast of the United States: A Machine Learning Approach

Kelsea Best, Vanderbilt University

Md Sariful Islam, Virginia Tech University

Zeynab Jouzi, North Carolina State University

Timothy Kirby, Florida International University

Rebecca Nixon, Purdue University

Azmal Hossan, Colorado State University

Richard Nyiawung, University of Guelph

The design and implementation of public space as a problem and opportunity for managed retreat iterations and risk reduction both in physical and knowledge territories: Lessons from urban design practice in Puerto Rico

Fernando Pabón, Architect and Urbanist

Evaluating Land Use Tradeoffs on Agricultural Lands Affected by Sea Level Rise

Taryn Sudol, Maryland Sea Grant
Christine Miller Hesed, Department of Anthropology, University of Maryland
Jenna Clark, Maryland Sea Grant
Fredrika Moser, Maryland Sea Grant

Decision-Support Tool for Testing Managed Retreat Policies: A Framework

Caroline Williams, University of Delaware
Rachel Davidson, University of Delaware
Linda Nozick, Cornell University
Joseph Trainor, University of Delaware
Jamie Kruse, East Carolina University
Meghan Millea, East Carolina University

You cannot unknow this: From the Cusp of Survival to Emerging Practice

Ann Kosmal, U.S. General Services Administration

Session 18B: Panel: Transdisciplinary science and practice insight for understanding managed retreat across hazards, scales and geographies

Case Insights:

Bina Desai: *Why managed retreat? the implications of climate-related displacement*
Christian Huggel: *Retreat from mountain to sea in Peru*
Reinhard Mechler: *Re-retreat on flood plains in Nepal*
Tiziana Bonzon: *Tackling Planned Relocation in the Red Cross/Red Crescent Movement*

Cross-cutting issues:

Stefan Hochrainer-Stigler: *The fiscal costs of displacement*
Swenja Surminski: *Resilience and managed retreat across geographies- the financial implications*
Elisa Calliari: *Institutional and governance challenges for planned relocation*

Plenary discussion:

Colin Mc Quistan: *Kick-off commentary: A practitioner's perspective*
Discussion with all facilitated by Sirkku Juhola

Session 18C: Building a State Strategy for Acquisitions in Massachusetts (WORKSHOP)

Linda Orel, The Trustees of Reservations
Carri Hulet, CH Consulting, LLC

Session 19A: Relocation opportunities: Practical buyout program design considerations for breaking down barriers to program entry (panel)

Maggie Battaglin Gurule, Buyout Manager
Thomas Hughes, Pennsylvania Emergency Management Agency
Ann Schmid, Iowa Economic Development Authority
Brandy Bones, ICF
Lauren Nichols, ICF
Kevin Roddy, ICF

Session 19B: Buyouts, Continued

The Consumption and (Re)Production of the Post-Buyout Landscape: An Analysis of Visual Culture
Elyse Zavar, University of North Texas, Department of Emergency Management & Disaster Science
Sherri Brokopp Binder, Brokoppbinder Research & Consulting
Alex Greer, University at Albany

Goals and Outcomes of U.S. Voluntary Buyouts: A Systematic, Comparative Literature and Media Analysis
Jennifer Niemann, University of Miami Rosenstiel School of Marine & Atmospheric Science
Miyuki Hino, University of North Carolina at Chapel Hill
Caroline Kraan, University of Miami
A.R. Siders, University of Delaware
Katharine Mach, University of Miami

Control over one's environment? Leveling political capabilities to advance procedural justice in managed retreat
Lieke Brackel, Delft University of Technology

Towards a Better Buyout
Sara Bohnert, University of Waterloo

Best Practices for Voluntary Buy-Out Programs
Steve Mollica, The LTL-Schock Group

Session 19C: 10 Principles for Community Resettlement (panel)

Phillip Kash, Partner at HR&A Advisors
David Lessinger, Sr. Advisor at CSRS
Marissa Aho, Chief Resilience Officer of Houston, Texas
Jessica Simms, State of Louisiana Office of Community Development
Dave Canaan, Director of Storm Water Services of Charlotte, Mecklenburg County

Closing Plenary

Miyuki Hino, Assistant Professor, University of North Carolina at Chapel Hill

Radley Horton, Lead Principle Investigator, Consortium for Climate Risk in the Urban Northeast
Susanne Moser, Director, Susanne Moser Research & Consulting
Nadia Seeteram, PhD Candidate, Florida International University
Linda Shi, Assistant Professor, Cornell University
Daniel Zarrilli, Special Advisor, Climate & Sustainability, Columbia University