



MACH Annual Meeting 2024

Day 1: May 29th, 2023 (MACH Team and EAB members)

@ [RU Camden Campus Center](#) - Multipurpose room

Meeting Purpose:

- To (re)connect with our fellow MACH team members
 - To learn from one another/appreciate other fields of study/perspectives
 - To discuss/refine our integrative research focal areas
 - To brainstorm potential regional, integrated product(s)
 - Draw on the expertise of our CSAP/GAC/EAB advisory members
-

8:30 am **Pre-meeting networking and lite refreshments**

9:00 am - **Welcome**

- Tom Risch - Vice Chancellor for Research, Rutgers-Camden
- Robert Kopp, MACH Director
- Meeting Purpose and Agenda Review - Lisa Auermuller, MACH Administrative Director

9:30 am - **Icebreaker/Get to Know One Another - Four Corners**

10:00 am - **Working in Integrated Groups - A MACH Coat of Arms**

10:45 am - **Break/[Unstructured Small Group Working Session](#)**

11:45 am - **Integrated Research Focus Areas - "I Know/I Wonder/I Can Contribute" Gallery Walk**

12:30pm - **Lunch (Provided)**

1:30 pm - **Integrated Research Focus Areas - "I Wonder" Response Panel w/ Research Focal Area Leads**

2:30 pm - **Break**

2:45 pm - **Brainstorming a MACH Regional, Integrated Product**

4:00 pm - **Day 1 Reflections: A MACH Anthem**

4:30 pm - **Meeting Concludes**

Evening - Informal networking on your own

Parking

Non- RU Affiliated Visitors- REGISTER IN ADVANCE

Your visitors may park in Lots C1, C2, C3, or C14 without permits. Guests must use the below link to register for the event. Until this process is completed, your vehicle is not registered and you may receive a citation.

<https://rudots.nupark.com/v2/portal/eventregister/86611ff6-48ee-4b02-b7c7-4f2547d827c8#/events/registration/>

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MACH Annual Meeting 2024

Day 2: May 30th Morning Session (HYBRID)

(MACH team, EAB, CSAP, GAC, Research partners, Academic Leadership)

@ [RU Camden Campus Center](#) - Multipurpose Room

Meeting Purpose:

- To (re)connect with our fellow MACH members
 - To learn from one another/appreciate other fields of study/perspectives
 - Draw on the expertise of our CSAP/GAC/EAB advisory members
-

8:30 am **Pre-meeting networking** (Lite refreshments served)

9:00 am - **HYBRID Meeting:** [Link](#) for remote attendees to join.

Welcome

- Sandra (Sandy) Richtermeyer - Provost, Rutgers, Camden (confirmed)
- Mike Zwick, Senior Vice President for Research at Rutgers University (confirmed)
- MACH: Year 3 in Review - Robert Kopp - Director, MACH

9:35 am - **Student/Postdoc Ignite Session (25 presentations @ 4 minutes each)**

Topic: Equity in Decision Making

- *Funding rules that promote equity in climate adaptation outcomes.*
 - Adam Pollack (Dartmouth College)

Topic: Cost Benefit Analysis

- *Uncertainty in Cost and Benefit Analysis of Property Elevation.*
 - Avin Laali (Rutgers University)

Topic: Coastal Climate Risk

- *The impact of electrical hazards from overhead power lines on urban search and rescue operations during extreme flood events.*
 - Holly Josephs (Rutgers University)

Topic: Coastal Climate Risk

- *Statistical framework for boundary condition generation for compound flood models*
 - Pravin Maduwantha (University of Central Florida)

Topic: Coastal Climate Risk

- *Uncertainties in compound flooding due to the temporal evolution of events*
 - Sara Santamaria-Aguilar (University of Central Florida)

Topic: Coastal Climate Risk

- *Bayesian-based dynamic updating of depth-damage curves for flood damage assessment*
 - Yitong Li (Rutgers University)

Topic: Equity in Decision Making

- *Long-Range Community-Driven Resilience Planning in Ortley Beach, New Jersey*
 - Laura Geronimo (Rutgers University)

Topic: Barrier Island Retreat

- *The Role of Barrier-Marsh-Lagoon Interactions in Barrier Island Retreat: A Morphodynamic Modeling Approach*
 - Eric Dammann (Montclair State University)

Topic: Barrier Island Evolution

- *Exploring Decadal to Centennial Barrier-Inlet Evolution: Insights from Barnegat Inlet, NJ*
 - Shane Nichols-O'Neill (Montclair State University)

Topic: Barrier Island Decision Analysis

- *Should we stay or should we leave? Multi-objective tradeoffs between beach nourishment and managed retreat under deep uncertainty*
 - Prabhat Hegde (Dartmouth College)

Topic: Equity in Decision Making

- *Climate Policy Coherence within Multi-Level Governance: A Case Study of Flood Mobility Policies in NJ and NY*
 - Melissa Tier (Princeton University)

Topic: Coastal Climate Risk

- *Resilience of Offshore Wind Technologies under Hurricane Landfalling Within PJM*
 - Avery Barnett (Princeton University)

Topic: Coastal Climate Risk

- *Resilience of renewable power systems under climate risks*
 - Luo Xu (Princeton University)

Topic: Coastal Climate Risk

- *Tropical Cyclone Flood Hazards along NY and NJ coastlines*
 - Amirhosein Begmohammadi (Princeton University)

Topic: Coastal Climate Risk

- *Shift in Tropical Cyclone Seasonal Cycle and Its Relationship with Tropical Cyclone-Heatwave Compound Hazards*
 - Dazhi Xi (Princeton University)

Topic: Coastal Climate Risk

- *Investigating modeled storm surge-producing extratropical cyclones in the MACH region*
 - Diana Apoznanski (Rutgers University)

Topic: Coastal Climate Risk

- *Sea-Level Rise Variability in the MACH region*
 - William Coronel (Tulane University)

Topic: Coastal Climate Risk

- *Analyzing Estuarine Bathymetric Changes and Their Effect on Maximum Water Levels During Storm Tides*
 - Md Nurul Kadir

Topic: Household Decision Making

- *Households Decision-making Related to Climate Change in Northeast USA: A Systematic Review*
 - Nuzhat Fatema (Rutgers University)

Topic: Household Decision Making

- *Challenges Collecting Climate-related Perspectives from Immigrant Communities in Philadelphia*
 - Yvonne Dadson (SUNY Albany)

Topic: Household Decision Making

- *Blowing hot and cold: Navigating Flooding and Temperature Extremes in Philadelphia*
 - Manasa Bollempalli (Rutgers University)

Topic: Stormwater

- *A Safety Factor Approach For Urban Stormwater Drainage System Design Under Deep Uncertainty*
 - Siqi Ke (Dartmouth College)

Topic: Municipal Finance

- *A National Fiscal Impact Tool for Local Decisions on Managed Retreats*
 - Junghoon Lee (Rutgers University)

Topic: Insurance

- *Equity in Flood Insurance: Exploring differential claims treatment in the National Flood Insurance Program*
 - Karina French (Environmental Defense Fund)

Topic: Riverine Tidal Variations

- *Quantifying The Role Of Estuarine Geometric Changes On Tidal Range Variations: Insights From The Delaware River*
 - Taznin Naher (Montclair State University)

11:15am - **Break**

11:30 am **MACH's Documentary Films: A Preview**

- Thomas Lennon, Rutgers University

11:40 am - **Co-production Panel - Successes, Challenges and Opportunities for the Future**

- Moderator, Lisa Auermuller, Administrative Director
- Panelists
 - Jeanne Herb - MACH Stakeholder Engagement Team Member
 - Abby Sullivan - City of Philadelphia, Chief Resilience Officer
 - Don Boesch – Chair, MACH EAB
 - Sara Santamaria Aguilar - MACH Postdoctoral Student
 - Casey Helgeson – MACH Senior Research Team member

12:45 pm - **Conclude Hybrid Session**

Lunch Provided

Day 2: May 30th Afternoon Session (No Online Option)

2:00 pm - **MACH Research Focal Areas World Cafe**

- Compound flooding risk
- Hurricane/heat risk
- Barrier island/beach adaptation in the face of climate risk
- The interrelated insurance/mortgage/ housing markets
- The impacts of flood risk on municipal finances
- Improving equity considerations in the design of strategies to manage flood risks
- Household decision-making regarding flood risk in low-income, renter-dominated neighborhoods

Informal Break

4:00 pm - **MACH: A Meeting Reflection**

4:30 pm - **Meeting Conclude**

Evening: **Informal networking**

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