



PREEVENTS PI Meeting Agenda

NSF Headquarters Room E 3450

September 20-21, 2018

Thursday

8:30 Welcome and opening remarks from NSF

9:00 Jason Knievel, David Nolan: More resilient coastal cities and better hurricane forecasts through multi-scale modeling of extreme winds in the urban canopy

9:20 Rob DeConto: Thresholds and envelopes of rapid ice-sheet retreat and sea-level rise: reducing uncertainty in coastal flood hazards

9:40 Raymond Schmitt: Ocean Salinity as a predictor of US hydroclimate extremes

10:00 Break

10:10 Casey Dietrich: Subgrid-Scale Corrections to Increase the Accuracy and Efficiency of Storm Surge Models

10:30 Yihe Huang: Cascadia Scenario Earthquakes: Source, Path, and implications for Earthquake Early Warning

10:50 Kim Olsen: 3D Nonlinear Simulation of Large Earthquakes on the Southern San Andreas Fault

11:10 Break

11:20 – Poster lightning round (90 seconds each)

Jimmy Ge, University of Miami

Ruthie Halberstadt, UMass Amherst

Dan Guilford, Rutgers

Adwait Sahasrabhojane, WHOI

Amirhosein Begmohammadi, Notre Dame

Marlon Ramos, University of Michigan Ann Arbor

Zhifeng Hu, San Diego State University

Derek Mallia, University of Utah

Paulina Cwik, University of Oklahoma

Shelby Ahrendt, University of Washington

Carl Malings, Carnegie Mellon University

Alex Zickar, University of Illinois at Urbana-Champaign

Agnit Mukhopadhyay, University of Michigan Ann Arbor

Tong Shi, University of Michigan

11:45 – Networking and lunch on your own

1:40 Leila Carvalho: Understanding Extreme Fire Weather Hazards and Improving Resilience in Coastal Santa Barbara, California

2:00 Steve Krueger: A fast-response wildland fire modeling framework for prediction and risk assessment

2:20 Elinor Martin: Developing a Framework for Seamless Prediction of Sub-Seasonal to Seasonal Extreme Precipitation Events in the United States

2:40 Break

2:50 Alexander Horner-Devine: Integrated Modeling of Hydro-Geomorphologic Hazards: Floods, Landslides and Sediment

3:10 Albert Kettner: A transdisciplinary approach to next-gen natural hazard modeling: Improving accuracy and usability of earth surface process models for pre-event risk assessment

3:30 Frank Lombardo: Tornado Hazard Wind Assessment and Reduction Symposium

3:50 Posters + networking

5:00 Happy hour at San Antonio Bar & Grill (200 Swamp Fox Rd, Alexandria, VA 22314)

Friday

9:00 Opening remarks from NSF

9:15 Matteo Pozzi: SHADE: Surface Heat Assessment for Developed Environments

9:35 Mike Liemohn: CHARGED- Comprehensive Hazard Analysis for Resilience to Geomagnetic Extreme Disturbances

9:55 Gabor Toth: Integrated Modeling of Extreme Space Weather Events from Electron to Global Scales

10:15 Break

10:30 Breakout sessions

11:50 Closing remarks from NSF

12:00 Farewell