

CSDMS 2018: Geoprocesses, Geohazards

May 22-24, 2018

University of Colorado, Sustainability Energy and Environment Complex, 4001 Discovery Drive, C120
Boulder, Colorado 80309

***Pre-conference May 21 (all day)

- 1) CSDMS Software Carpentry Workshop, 9:00AM, SEEC N136 (Mariela Perignon & Mark Piper) **Breakfast will be served starting at 8:30AM**
- 2) Essentials for HPCC model code, 9:00AM, SEEC S225 (CU Research Computing) **Breakfast will be served starting at 8:30AM**

Tuesday, May 22, 2018

Time	Location	What	Presenter	Topic
8:00AM		Busses depart hotel		
8:15AM	Lobby	Registration & Breakfast		
9:00AM	C120	Welcome	Brad Murray, Duke U	Welcome
9:05 AM	C120	CSDMS	Greg Tucker, CSDMS	Introduction to the Natural Hazards Modeling WS
9:30 AM	C120	Plenary Keynote	Susan Cutter, U South Carolina	<i>Social Vulnerability and Community Resilience to Natural Hazards: Models, Tools and Practice</i>
10:00AM	C120	Plenary Keynote	David George, USGS	<i>Modeling earth-surface flow hazards with D-Claw</i>
10:30AM	C120	Plenary Keynote	Paul Bates, U Bristol, UK	<i>Modeling flood risk in the continental US</i>
11:00AM	Lobby	Break		
11:15AM	C120	Breakout 1.1	Eli Lazarus, U Southampton	<i>Challenges and gaps in natural hazards modeling</i>
	S225	Breakout 1.2	David Mohrig, U Texas, Austin	
	S372A	Breakout 1.3	Kristy Tiampo, U Colorado	
	N149	Breakout 1.4	Kimberly Rogers, U Colorado	
	N136	Breakout 1.5	Wonsuck Kim, U Texas, Austin	
12:30PM		Lunch		
1:30PM	S225	Clinic 1.1	Guy Schumann, Remote Sensing Solutions, CA	<i>LISFLOOD-FP Clinic: Introduction to Flood Hazard Modeling</i>
	N126	Clinic 1.2	Mark Piper, CSDMS IF	<i>BMI, Live!</i>
	N129	Clinic 1.3	Sediment Experimentalist Network	<i>Sediment Experimentalist Network (SEN) – Wrangling your research data</i>
	N128	Clinic 1.4	Doug Edmonds, Indiana University	<i>An Introduction to Using Google Earth Engine</i>
3:30PM	Lobby	Break		
3:45PM	C120	Plenary Student Talk 1	Julio Hoffman-Mendez, Stanford U	<i>ImageQuilting.jl: A code for generating 3D stratigraphy from data collected in flume experiments</i>
4:00PM	C120	Plenary Student Talk 2	Rachel Glade, CU Boulder	<i>Modeling blocky hillslope evolution in layered landscapes</i>
4:15PM	C120	Poster Session 1		
6:30PM		Busses depart to hotel		

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Time	Location	What	Presenter	Topic
8:30AM		<i>Busses depart hotel</i>		
9:00AM	C120	Plenary Keynote	Mike Willis, UC, Boulder	<i>Private Eyes are Watching You</i>
9:30AM	C120	Plenary Keynote	Phaedra Upton, NZ Geoscience	<i>Earthquake-induced landslides & landscape dynamics: The 2016 Kaikōura Earthquake and response</i>
10:00AM	C120	Plenary Keynote	Chris Jenkins, CU, Boulder	<i>Scale and Process Jumps in a Multimodal Project on Hurricane Impacts at the Seabed</i>
10:30AM	Lobby	Break		
10:45AM	C120	Breakout 2.1	Jonathan Gilligan, Vanderbilt U	<i>Solutions and next steps for improving natural hazards modeling</i>
	S225	Breakout 2.2	Matt Rossi, CU, Boulder	
	N136	Breakout 2.3	Mary Hill, U Kansas	
	S372A	Breakout 2.4	Paul Bates, U Bristol	
	N149	Breakout 2.5	Moira Zellner, U Illinois, Chicago	
12:30PM		Lunch		
1:30PM	S225	Clinic 2.1	Irina Overeem, CSDMS IF	<i>Permafrost Toolbox</i>
	N136	Clinic 2.2	Margaux Mouchene, CU, Boulder	<i>Landlab with Hydroshare</i>
	N128	Clinic 2.3	Chris Sherwood, USGS	<i>How to make accurate digital elevation models using imagery from drones (or even walking around)</i>
	N126	Clinic 2.4	Cam Wobus, ABT Associates	<i>Physical and Socio-Economic Data for Natural Disasters</i>
3:30PM	Lobby	Break		
3:45PM	C120	Poster Session 2		
5:45PM		<i>Busses depart for hotel</i>		
6:45PM		<i>Busses depart for banquet</i>		
7:00PM		Banquet, Embassy Suites Hotel		
9:00PM		<i>Busses depart to hotel</i>		

Awards Banquet (May 23) – 7PM at the Embassy Suites, Hotel, Settlers Park Ballroom, 2601 Canyon Boulevard, Boulder

- 1) Syvitski Student Modeler Award Announcement
- 2) Poster Award – TBD by attendee votes

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Thursday, May 24, 2018

Time	Location	What	Presenter	Topic
8:30AM		<i>Busses depart hotel</i>		
9:00AM	C120	Plenary Keynote	Jenny Suckale, Stanford U	<i>Multiphase instabilities and extreme events in different natural systems</i>
9:30AM	C120	Plenary Keynote	Robert Weiss, Virginia Tech	<i>Simulating the tsunami hazard: quantitative predictions</i>
10:00AM	C120	Plenary Student Talk 3	Jannis Hoch, Utrecht U	<i>GLOFRIM – A globally applicable framework for integrated hydrologic-hydrodynamic modeling</i>
10:15AM	Lobby	Break		
10:30AM	S225	Clinic 3.1	Steve Roberts, Australian National U & Mariela Perignon, UC Boulder	<i>Hydrodynamic modeling using the open source package ANUGA</i>
	N136	Clinic 3.2	Katy Barnhart, UC, Boulder	<i>Model sensitivity analysis and optimization with Dakota and Landlab</i>
	S372A	Clinic 3.3	Ethan Gutmann, NCAR	<i>Making Use of Climate Model Output: Downscaling for Regional Applications</i>
	C120	Clinic 3.4	Chris Jenkins, UC Boulder & Jeff Obelcz, NRL, Stennis	<i>Forum on Artificial Intelligence & Machine Learning: What lies ahead for Earth Surface Modeling?</i>
12:30PM		Lunch		
1:30PM	C120	Plenary Keynote	Joannes Westerink, U Notre Dame	<i>Storm surge model ADCIRC for risk assessment</i>
2:00PM	C120	Plenary Keynote	Joel Johnson, U Texas, Austin	<i>Using tsunami sediment transport experiments to improve paleohydraulic inverse models</i>
2:30PM	C120	Plenary Keynote	Terry Idol, Open Geospatial Consortium	<i>Disasters: Increasing Interoperability for User-driven State-of-the-Art Data and Models</i>
3:00PM	Lobby	Break		
3:15PM	N128	Breakout 3.1	<i>Terrestrial Working Group and Geodynamics Focus Research Group</i>	
	N136	Breakout 3.2	<i>Marine and Cyber Working Groups and Chesapeake Focus Research Group</i>	
	N126	Breakout 3.3	<i>Human Dimensions Focus Research Group</i>	
	N129	Breakout 3.4	<i>Hydrology, Critical Zone Focus Research Groups and EKT Working Group</i>	
	C120	Breakout 3.5	<i>Coastal Working Group, Ecosystem Dynamics and Carbonates/Biogenics Focus Research Groups</i>	
	S225	Breakout 3.6		
4:30PM	C120	Plenary Panel Discussion	TBD	<i>Conclusions</i>
5:00PM	C120	Final Remarks	Greg Tucker	<i>See you next year!</i>
5:15PM		<i>Busses Depart</i>		

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****Post-conference May 25 (9:00AM – 3:00PM)*

BMIathon Workshop, 9:00AM in SEEC N149 (Eric Hutton, Mark Piper) **Breakfast will be served starting at 8:30AM**

Friday, May 25- Meetings by invitation only

9:00-11:00AM	Location: Sustainability, Energy & Environment Center (SEEC) Room N136 4001 Discovery Dr. Boulder, CO 80309	Executive Committee Meeting
11:00AM		Lunch is available for Executive and Steering Committees
11:00AM – 1:00PM		Steering Committee Meeting