

## 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, SEEC N136 (Mariela Perignon & Mark Piper)
- 2) Essentials for HPCC model code, SEEC N225 (CU Research Computing)

### Tuesday, May 22, 2018

Time	Location	What	Presenter	Topic
8:00AM		Busses depart hotel		
8:15AM	Lobby	<b>Registration &amp; coffee</b>		
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	<b>Plenary</b> Keynote	Susan Cutter, U South Carolina	<i>Social Vulnerability and Community Resilience to Natural Hazards: Models, Tools and Practice</i>
10:00AM	C120	<b>Plenary</b> Keynote	David George, USGS	<i>Modeling earth-surface flow hazards with D-Claw</i>
10:30AM	C120	<b>Plenary</b> Keynote	Paul Bates, U Bristol, UK	<i>Modeling flood risk in the continental US</i>
11:00AM	Lobby	<b>Break</b>		
11:15AM	<b>Brkout 1.1</b> – C120			
	Brkout 1.2- S225			
	Brkout 1.3 – S372A			
	Brkout 1.4 – N149			
	Brkout 1.5 – N136			
12:30PM	<b>Lunch</b>			
1:30PM	N129	Clinic 1.1	Guy Schumann, Remote Sensing Solutions, CA	<i>LISFLOOD-FP Clinic: Introduction to Flood Hazard Modeling</i>
	S225	Clinic 1.2	Mark Piper, CSDMS IF	<i>BMI, Live!</i>
	N126	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	<b>Break</b>		
3:45PM	C120	<b>Plenary</b> 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	<b>Plenary</b> Student Talk 2	Rachel Glade, CU Boulder	<i>Modeling blocky hillslope evolution in layered landscapes</i>
4:15PM	C120	<b>Poster</b> Session 1		
6:30PM		Busses depart to hotel		

## CSDMS 2018: Geoprocesses, Geohazards

May 22-24, 2018

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

### Wednesday, May 23, 2018

Time	Location	What	Presenter	Topic
8:30AM		<i>Busses depart hotel</i>		
9:00AM	C120	<b>Plenary</b> Keynote	Mike Willis, UC, Boulder	<i>Private Eyes are Watching You</i>
9:30AM	C120	<b>Plenary</b> Keynote	Phaedra Upton, NZ Geoscience	<i>Earthquake-induced landslides &amp; landscape dynamics: The 2016 Kaikōura Earthquake and response</i>
10:00AM	C120	<b>Plenary</b> Keynote	Chris Jenkins, CU, Boulder	<i>Scale and Process Jumps in a Multimodal Project on Hurricane Impacts at the Seabed</i>
10:30AM	Lobby	<b>Break</b>		
10:45AM	S225	<b>Breakout 2.1</b>		
	C120	Breakout 2.2		
	N136	Breakout 2.3		
	S372A	Breakout 2.4		
	N149	Breakout 2.5		
	SEEL303	Breakout 2.6		
12:30PM		<b>Lunch</b>		
1:30PM	N126	<b>Clinic 2.1</b>	Irina Overeem, CSDMS IF	<i>Permafrost Toolbox</i>
	N136	Clinic 2.2	Nicole Gasparini, Tulane U	<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>
	S225	Clinic 2.4	Cam Wobus, ABT Associates	<i>Physical and Socio-Economic Data for Natural Disasters</i>
3:30PM	Lobby	<b>Break</b>		
3:45PM	C120	<b>Poster</b> Session 2		
5:45PM		<i>Busses depart for hotel</i>		
6:45PM		<i>Busses depart for banquet</i>		
7:00PM		<b>Banquet, Embassy Suites Hotel</b>		
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

## CSDMS 2018: Geoprocesses, Geohazards

May 22-24, 2018

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

### Thursday, May 24, 2018

<b>Time</b>	<b>Location</b>	<b>What</b>	<b>Presenter</b>	<b>Topic</b>
8:30AM		<i>Busses depart hotel</i>		
9:00AM	C120	<b>Plenary</b> Keynote	Jenny Suckale, Stanford U	<i>Multiphase instabilities and extreme events in different natural systems</i>
9:30AM	C120	<b>Plenary</b> Keynote	Robert Weiss, Virginia Tech	<i>Simulating the tsunami hazard: quantitative predictions</i>
10:00AM	C120	<b>Plenary</b> Student Talk 3	Jannis Hoch, Utrecht U	<i>GLOFRIM - A globally applicable framework for integrated hydrologic-hydrodynamic modeling</i>
10:15AM	Lobby	<b>Break</b>		
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 &amp; Machine Learning: What lies ahead for Earth Surface Modeling?</i>
12:30PM		<b>Lunch</b>		
1:30PM	C120	<b>Plenary</b> Keynote	Joannes Westerink, U Notre Dame	<i>Storm surge model ADCIRC for risk assessment</i>
2:00PM	C120	<b>Plenary</b> Keynote	Joel Johnson, U Texas, Austin	<i>Using tsunami sediment transport experiments to improve paleohydraulic inverse models</i>
2:30PM	C120	<b>Plenary</b> Keynote	Terry Idol, Open Geospatial Consortium	<i>Disasters: Increasing Interoperability for User-driven State-of-the-Art Data and Models</i>
3:00PM	Lobby	<b>Break</b>		
3:15PM	N149	<b>Breakout</b> 3.1		
	N136	Breakout 3.2		
	N126	Breakout 3.3		
	N129	Breakout 3.4		
	C120	Breakout 3.5		
	S225	Breakout 3.6		
	N128	Breakout 3.7		
4:30PM	C120	<b>Plenary</b> 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>		

**CSDMS 2018: Geoprocesses, Geohazards**

**May 22-24, 2018**

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

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

**BMIathon** Workshop, SEEC N149 (Eric Hutton, Mark Piper) –limited to 12

**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