

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 | Registration & coffee | | |
| 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 | Brkout 1.1 – C120 | | | |
| | Brkout 1.2- S225 | | | |
| | Brkout 1.3 – S372A | | | |
| | Brkout 1.4 – N149 | | | |
| | Brkout 1.5 – N136 | | | |
| 12:30PM | Lunch | | | |
| 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 | 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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Wednesday, May 23, 2018

| 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 | S225 | Breakout 2.1 | | |
| | C120 | Breakout 2.2 | | |
| | N136 | Breakout 2.3 | | |
| | S372A | Breakout 2.4 | | |
| | N149 | Breakout 2.5 | | |
| | SEEL303 | Breakout 2.6 | | |
| 12:30PM | | Lunch | | |
| 1:30PM | N126 | Clinic 2.1 | 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 | 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>Tsunami hazard assessment</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 | N149 | Breakout 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 | 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, 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 |