

CSDMS Annual Meeting - "CSDMS 2022: Environmental Extremes and Earthscape Evolution (E4)" May 17-19, 2022

\*\*\*\*All times provided in Mountain Daylight Time

Tuesday, May 17, 2022

Time	What	Presenter	Topic
9:00AM	Welcome	Brad Murray, CSDMS Steering Committee Chair	Welcome and Introduction
	Community Updates	Greg Tucker, CSDMS Exec. Director	State of CSDMS
9:20 AM	Plenary Keynote	Georgie Bennett, University of Exeter	<i>Modeling Climate Change Impacts on Mountain Basin Sediment Transfer</i>
9:40AM	Plenary Keynote	Luke McGuire, University of Arizona	<i>Modeling the Transient Effects of Fire on Runoff and Erosion: Implications for Debris-flow Hazards</i>
10:00AM	Plenary Keynote	Neil Chue Hong, University of Edinburgh	<i>Software Sustainability and FAIR Research Software - What does this Mean for Research into Environmental Extremes?</i>
10:20AM	Plenary Student Keynote	Marco Tangi, Politecnico di Milano	<i>D-CASCADE: A Basin-scale, Dynamic Model to Analyze River Sediment (Dis)Connectivity and its Response to Anthropic Pressures</i>
10:40AM	<b>Break</b>		
11:00AM - 12:30PM	Breakout 1	Group discussions	<i>Introductions and breakout topic discussions</i>
	Breakout 2	Group discussions	<i>Introductions and breakout topic discussions</i>
	Breakout 3	Group discussions	<i>Introductions and breakout topic discussions</i>
	BMI Council Meeting (S249)	Greg Tucker, CSDMS IF	<i>Inaugural BMI Council Meeting (closed session by invitation only)</i>
12:30PM - 1:30PM	<b>Lunch</b>		
1:30PM - 3:30PM	Clinic 1.1 (Rm S225 )	Danica Roth & Eileen Martin, Colorado School of Mines	<i>Environmental Seismology and Distributed Acoustic Sensing (DAS)</i>
	Clinic 1.2 (Rm N224 )	Chang Liao & Tian Zhou, Pacific NW National Lab	<i>Variable Resolution Mesh Based Flow Direction and Hydrologic Modeling: An Introduction to HexWatershed</i>
	Clinic 1.3 (Rm S372 )	Greg Tucker, CSDMS IF	<i>Clinic 1: The Art of Modeling: From Concept to Math with Mass, Energy, and Momentum Balance</i>
	Clinic 1.4 (Rm S228 )	Irina Overeem, CSDMS IF	<i>Teaching with Jupyter Notebooks</i>
3:30PM	<b>Break</b>		
3:45PM - 6:00PM	Poster Session A		

6:30PM Early Career Mixer - Twisted Pine Brewing Company, 3201 Walnut Street (a short walk from both conference hotels)

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Wednesday, May 18, 2022

Time	What	Presenter	Topic
9:00AM	Welcome		Welcome
9:05 AM	<b>Plenary</b> Keynote	Katherine Anarde, North Carolina State University	<i>Simulating Linkages Between Landscape Evolution and Coastal Real Estate Markets with the CoAStal Community-LANDscape Evolution (CASCADE) model</i>
9:25AM	<b>Plenary</b> Keynote	Andrew Bell, Boston University	<i>Modeling Big Unknowns in Climate Adaptation Research - an Example from Mobility in Coastal Bangladesh</i>
9:45AM	<b>Plenary</b> Keynote	Lauren Lowman, Wake Forest University	<i>Modeling Eco-hydrologic Processes Across Scales in Montane Cloud Forests</i>
10:05AM	<b>Plenary</b> Student Keynote	Alexander Gorr, University of Arizona	<i>ProDF: A Reduced-complexity Model for Debris-flow Inundation</i>
10:25AM	<b>Break</b>		
11:00AM - 12:30PM	<b>Plenary</b> Spring School Student Presentations	Irina Overeem - Moderator	<i>Team Modeling Projects</i>
12:30PM - 1:30PM	<b>Lunch</b>		
1:30PM - 3:30PM	Clinic 2.1 (Rm N224 )	Travis Thurber and Chris Vernon, Pacific NW National Lab	<i>Modeling Water Movement and Reservoir Operations with mosartwmpy</i>
	Clinic 2.3 (Rm S372 )	Vanessa Gable, CU, Boulder and Ethan Pierce, CSDMS IF	<i>Clinic 2: Introduction to Landlab: Getting to Know the Grid and Coupling Components</i>
	Clinic 2.4 (Rm S228 )	Anderson Banihirwe, NCAR	<i>Xarray for Scalable Scientific Data Analysis</i>
3:30PM	<b>Break</b>		
3:45PM - 4:30PM	Plenary Awards Ceremony		
4:30PM - 6:30PM	Poster Session B		

Banquet 6:30PM to 9:00PM - SEEC Cafe, 4001 Discovery Drive, Boulder, CO 80303

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**Thursday, May 19, 2022**

<b>Time</b>	<b>What</b>	<b>Presenter</b>	<b>Topic</b>
9:00AM	Welcome/2022 Poster Award Winner Announcement	Julia Moriarty, University of Colorado, Boulder	Welcome and Awards
9:05 AM	Plenary Keynote	D. Sarah Stamps, Virginia Tech	<i>3D Computational Modeling of Lithospheric Deformation, Asthenospheric Flow, and Deep Melt Generation with ASPECT</i>
9:25AM	Plenary Keynote	Venkataraman Lakshmi, University of Virginia	<i>Global Hydrological Water Cycle Extremes</i>
9:45AM	Plenary Keynote	Andrew Moodie, University of Texas	<i>A Flexible Delta Model to Assess Land Building Potential of Sediment Diversions under Various External Forcings</i>
10:05AM	Plenary Student Keynote	Fengyuan Zhang, Hong Kong Polytechnic University	<i>Interoperability Engine Design for Model Sharing and Reuse among OpenMI, BMI and OpenGMS-IS Model Standards</i>
10:25AM	<b>Break</b>		
11:00AM - 12:30PM	Breakout 1	Moderators TBD	<i>In Depth Discussions on Day 1 Breakout Topics</i>
	Breakout 2	Eric Hutton, Mark Piper and Tian Gan, CSDMS IF	<i>Office Hours with CSDMS Research Software Engineers</i>
	Breakout 3	Self-directed	<i>Proposal and Research Discussions - conference rooms will be available if needed</i>
	Breakout 4	TBD	<i>Networking Hike - Boulder Creek</i>
	Breakout 5	Greg Tucker, Executive Director, CSDMS IF	<i>CSDMS Executive Committee Meeting (by invitation)</i>
12:30PM	<b>Lunch</b>		
1:30PM - 3:30PM	Clinic 3.1 (Rm N224 )	Jay Hariharan and Andrew Moodie, University of Texas	<i>Rapid Hypothesis Testing and Analysis with the Open-Source Delta Model pyDeltaRCM</i>
	Clinic 3.3 (Rm S372 )	Greg Tucker and Eric Hutton, CSDMS IF	<i>Clinic 3: Component Creation with Landlab</i>
	Clinic 3.4 (Rm S228 )	Bertram Ludaescher, University of Illinois	<i>Publishing Reproducible Computational Research with the Whole Tale</i>
3:30PM	<b>Break</b>		
3:45PM - 4:45PM	Plenary Panel Discussion	Moderator - Andrew Wickert, University of Minnesota	<i>Environmental Extremes and Earthscape Evolution: Challenges and Opportunities</i>
4:45PM - 5:00PM	Closing Remarks and Adjourn	Greg Tucker, Executive Director, CSDMS IF	<i>Farewell and information about 2023 Annual Meeting</i>

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**Friday, May 20- Meeting by invitation**

9:00-12:00PM	Location: Room S228	CSDMS Steering Committee Meeting	(by invitation only)
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