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 Community Updates	Brad Murray, CSDMS Steering Committee Chair Greg Tucker, CSDMS Exec. Director	Welcome and Introduction State of CSDMS
9:20 AM	Plenary Keynote	Georgie Bennett, University of Exeter	*Modeling Climate Change Impacts on Mountain Basin Sediment Transfer*
9:40AM	Plenary Keynote	Luke McGuire, University of Arizona	*Modeling the Transient Effects of Fire on Runoff and Erosion: Implications for Debris-flow Hazards*
10:00AM	Plenary Keynote	Neil Chue Hong, University of Edinburgh	*TBD*
10:20AM	Plenary Student Keynote	Marco Tangi, Politecnico di Milano	*D-CASCADE: A Basin-scale, Dynamic Model to Analyze River Sediment (Dis)Connectivity and its Response to Anthropic Pressures*
10:40AM	*Break*		
11:00AM - 12:30PM	Breakout 1	TBD	*TBD*
	Breakout 2	TBD	*TBD*
	Breakout 3	TBD	*TBD*
	Breakout 4	TBD	*TBD*
	BMI Council Meeting (S249)	Greg Tucker, CSDMS IF	*Inaugural BMI Council Meeting (closed session by invitation only)*
12:30PM - 1:30PM	*Lunch*		
1:30PM - 3:30PM	Clinic 1.1 (Room)	Danica Roth & Eileen Martin, Colorado School of Mines	*Environmental Seismology and Distributed Acoustic Sensing (DAS)*
	Clinic 1.2 (Room)	Chang Liao & Tian Zhou, Pacific NW National Lab	*Variable Resolution Mesh Based Flow Direction and Hydrologic Modeling: An Introduction to HexWatershed*
	Clinic 1.3 (Room)	Greg Tucker and Benjamin Campforts, CSDMS IF	*Clinic 1: The Art of Modeling: From Concept to Math with Mass, Energy, and Momentum Balance*
	Clinic 1.4 (Room)	Irina Overeem, CSDMS IF	*Teaching with Jupyter Notebooks*
3:30PM	*Break*		
3:45PM - 6:00PM	Poster Session A		

7:00PM Early Career Mixer - Twisted Pine Brewing Company, 3201 Walnut Street (0.3 mile walk from Hyatt Place Hotel)

Wednesday, May 18, 2022

Time	What	Presenter	Topic
9:00AM	Welcome		Welcome
9:05 AM	**Plenary** Keynote	Virginia Ruiz Villanueva, University of Lausanne	*Modeling Flow, Sediment, and Wood Transport in Rivers*
9:25AM	**Plenary** Keynote	Andrew Bell, Boston University	*Modeling Big Unknowns in Climate Adaptation Research - an Example from Mobility in Coastal Bangladesh*
9:45AM	**Plenary** Keynote	Lauren Lowman, Wake Forest University	*Modeling Eco-hydrologic Processes Across Scales in Montane Cloud Forests*
10:05AM	**Plenary** Student Keynote	Alexander Gorr, University of Arizona	*ProDF: A Reduced-complexity Model for Debris-flow Inundation*
10:25AM	*Break*		
11:00AM - 12:30PM	**Plenary** Spring School Student Presentations	Irina Overeem - Moderator	*Team Modeling Projects*
12:30PM - 1:30PM	*Lunch*		
1:30PM - 3:30PM	Clinic 2.1 (Room)	Travis Thurber and Chris Vernon, Pacific NW National Lab	*Modeling Water Movement and Reservoir Operations with mosartwmpy*
	Clinic 2.2 (Room)		
	Clinic 2.3 (Room)	Vanessa Gable, CU, Boulder and Benjamin Campforts, CSDMS IF	*Clinic 2: Introduction to Landlab: Getting to Know the Grid and Coupling Components*
	Clinic 2.4 (Room)	Anderson Banihirwe, NCAR	*Xarray for Scalable Scientific Data Analysis*
3:30PM	*Break*		
3:45PM - 4:30PM	Plenary Awards Ceremony		
4:30PM - 6:30PM	Poster Session B		

Banquet - SEEC Cafe, 4001 Discovery Drive, Boulder, CO 80303

Thursday, May 19, 2022

Time	What	Presenter	Topic
9:00AM	Welcome/2022 Poster Award Winner Announcement		Welcome
9:05 AM	Plenary Keynote	D. Sarah Stamps, Virginia Tech	*3D Computational Modeling of Lithospheric Deformation, Asthenospheric Flow, and Deep Melt Generation with ASPECT*
9:25AM	Plenary Keynote	Venkataraman Lakshmi, University of Virginia	*Global Hydrological Water Cycle Extremes*
9:45AM	Plenary Keynote	Andrew Moodie, University of Texas	*A Flexible Delta Model to Assess Land Building Potential of Sediment Diversions under Various External Forcings*
10:05AM	Plenary Student Keynote	Fengyuan Zhang, Hong Kong Polytechnic University	*Interoperability Engine Design for Model Sharing and Reuse among OpenMI, BMI and OpenGMS-IS Model Standards*
10:25AM	*Break*		
11:00AM - 1:00PM	Breakout 1	TBD	*TBD*
	Breakout 2	TBD	*TBD*
	Breakout 3	TBD	*TBD*
	Breakout 4	Greg Tucker, Executive Director, CSDMS IF	*CSDMS Executive Committee Meeting (by invitation)*
1:00PM	*Lunch*		
1:30PM - 3:30PM	Clinic 3.1 (Room)	Jay Hariharan and Andrew Moodie, University of Texas	*Rapid Hypothesis Testing and Analysis with the Open-Source Delta Model pyDeltaRCM*
	Clinic 3.2 (Room)		
	Clinic 3.3 (Room)	Benjamin Campforts and Eric Hutton, CSDMS IF	*Clinic 3: Component Creation with Landlab*
	Clinic 3.4 (Room)	Craig Willis, University of Illinois	*Publishing Reproducible Computational Research with the Whole Tale*
3:30PM	*Break*		
3:45PM - 4:45PM	Plenary Panel Discussion	TBD	*Environmental Extremes and Earthscape Evolution: Challenges and Opportunities*
4:45PM - 5:00PM	Closing Remarks and Adjourn	Greg Tucker, Executive Director, CSDMS IF	*Farewell and information about 2023 Annual Meeting*

Friday, May 20- Meeting by invitation

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