CSDMS Annual Meeting - *"CSDMS 2023: Patterns and Processes Across Scales"* May 16-18, 2023
****All times provided in Mountain Daylight Time

Tuesday, May 16, 2023

Time	What	Presenter	Topic
9:00AM	Welcome Community Updates	Paola Passalacqua, CSDMS Steering Committee Chair Greg Tucker, CSDMS Exec. Director	Welcome and Introduction State of CSDMS
9:20 AM	Plenary Keynote (Rm C120)	Laurel Larsen, UC, Berkeley	*Mending the broken heart: How opening and stitching together social and ecological models of California's Delta region can transform the trajectory of the state's water management*
9:40AM	Plenary Keynote (Rm C120)	Alex Robel, Georgia Tech	*Predictability of future sea level rise assessed with a novel stochastic ice sheet model*
10:00AM	Plenary Keynote (Rm C120)	Joe Hughes, USGS	*Extension of the Basic Model Interface for tight coupling of MODFLOW to other model components*
10:20AM	Plenary Student Keynote (Rm C120)	Kyle Wright, UT, Austin	*From Grains to Plastics: Modeling Nourishment Patterns and Hydraulic Sorting of Fluvially Transported Materials in Deltas*
10:40AM	*Break*		
11:00AM - 12:30PM	Breakout 1 (Rm N224)	Last name A through G	*CSDMS meet and greet - get to know your colleagues*
	Breakout 2 (Rm C120)	Last name H through M	
	Breakout 3 (Rm S127)	Last name N through R	
	Breakout 4 (Rm S225)	Last name S through Z	
12:30PM - 1:30PM	*Lunch*		
1:30PM - 3:30PM	Clinic 1.1 (Rm N224)	Tian Gan and Mark Piper, CSDMS IF	*What can CSDMS do for you? A clinic on CSDMS Products and Services*
	Clinic 1.2 (Rm S372)	Rich Signell, USGS	*Emerging open-source Python-based infrastructure for scalable, data-proximate analysis and visualization of model output*
	Clinic 1.3 (Rm S225)	Richard Barnes, UC Berkeley	*Using GPUs to Solve Science Problems Faster*
	Clinic 1.4 (Rm S228)	Simon Mudd, U Edinburgh	*LSDtopotools*
3:30PM	*Break*		
3:45PM - 4:00PM	E-Pubs Lightning		
4:00PM - 6:00PM	Poster Session A		

Early Career Mixer - 6:00PM to 8:00PM - Sanitas Brewing Co. (food and non-alcoholic beverages available), 3550 Frontier Ave, Boulder, CO 80301
Sanitas is at the rear of the building (east side).

Wednesday, May 17, 2023

Time	What	Presenter	Topic
9:00AM	Welcome		Welcome
9:05 AM	**Plenary** Keynote	Thorsten Becker, UTexas	*Subduction dynamics and surface-deep mantle interactions*
9:25AM	**Plenary** Keynote	Christie Hegermiller, Sofar Ocean	*How industry develops and manages scientific code*
9:45AM	**Plenary** Keynote	Virginia Ruiz-Villanueva, UNIL	*Modelling instream large wood dynamics in rivers*
10:05AM	**Plenary** Student Keynote	Chris Tasich, Vanderbilt U	*Equilibrium elevation of the lower Ganges-Brahmaputra-Meghna Delta*
10:25AM	*Break*		
11:00AM	**Plenary** NSF Updates	Raleigh Martin, NSF	*NSF Program Updates*
11:10AM - 12:30PM	**Plenary** ESPIn 2023 Student Presentations	Irina Overeem - Moderator	*ESPIn Team Modeling Projects*
12:30PM - 1:30PM	*Lunch*		
1:30PM - 3:30PM	Clinic 2.1 (Rm S228)	Ethan Pierce, CSDMS IF	*Intro to Landlab*
	Clinic 2.2 (Rm S127)	John Naliboff, NMT	*Coupling models of lithospheric deformation and surface processes with the Advanced Solver for Problems in Earth's Convection and Tectonics (ASPECT)*
	Clinic 2.3 (Rm N224)	Randy LeVeque, UW	*Finite Volume Methods for Surface Dynamics Modeling*
	Clinic 2.4 (Rm S225)	Moira Zellner, Northeastern U	*Fora.ai: A participatory modeling platform to reshape how we collaborate for climate and social impact*
3:30PM	*Break*		
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

Thursday, May 18, 2023

Time	What	Presenter	Topic
9:00AM	Welcome/2023 Poster Award Winner Announcement	Julia Moriarty, University of Colorado, Boulder	Welcome and Awards
9:05 AM	Plenary Keynote	Silke Tas, Boston U	*Modelling chenier dynamics in the context of mangrove-mud coasts: A challenge across spatial and temporal scales*
9:25AM	Plenary Keynote	Todd Ehlers, U Tubingen	*How plants shape mountains*
9:45AM	Plenary Keynote	Michelle DiBenedetto, UW	*Buoyant particles in environmental flows: challenges in modelling microplastic transport*
10:05AM	Plenary Keynote	Jorge Lorenzo Trueba, Montclair State U	*Modelling barrier islands and fluvial-deltas across time scales: Insights from a moving-boundary approach*
10:25AM	*Break*		
11:00AM - 12:30PM	Breakout 1 (Rm S372)	Group Meetings	*Terrestrial WG, Geodynamics, Hydrology and CZ FRGs*
	Breakout 2 (Rm C120)	Group Meetings	*Marine and Coastal WGs, Chesapeake and Ecosystem Dynamics FRGs*
	Breakout 3 (Rm N224)	Group Meetings	*Human Dimensions FRG*
	Breakout 4 (Rm N149)	Eric Huttona and Mark Piper, CSDMS IF	*Research Software Engineering as a Service*
12:30PM	*Lunch*		
1:30PM - 3:30PM	Clinic 3.1 (Rm S372)	Sebastien Lenard, Univ Colorado	*How to route flow in a landscape with Landlab?*
	Clinic 3.2 (Rm S225)	Matt Rossi, University of Colorado	*Integrating Agent-Based Models into Landlab via pyNetLogo*
	Clinic 3.3 (Rm N224)	Jed Brown, CU, Boulder	*Building solvers for sustainable performance*
3:30PM	*Break*		
3:45PM - 4:45PM	Plenary Panel Discussion	Chris Jenkins, Moderator	*AI in Earth Surface Research - Challenges and Opportunities*
4:45PM - 5:00PM	Closing Remarks and Adjourn	Greg Tucker, Executive Director, CSDMS IF	*Farewell and information about 2024 Annual Meeting hosted by Montclair State University, Montclair, NJ*

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Friday, May 19- meeting by invitation

9:00AM-11:00AM	Location: Room S228	CSDMS Executive Committee Meeting	(by invitation only - lunch will be served)
12:00PM - 2:00PM	Location: Room S228	CSDMS Steering Committee Meeting	(by invitation only - lunch will be served)