

**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**

<b>Time</b>	<b>What</b>	<b>Presenter</b>	<b>Topic</b>
9:00AM	Welcome	Paola Passalacqua, CSDMS Steering Committee Chair	Welcome and Introduction
	Community Updates	Greg Tucker, CSDMS Exec. Director	State of CSDMS
9:20 AM	Plenary Keynote	Laurel Larsen, UC, Berkeley	<i>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</i>
9:40AM	Plenary Keynote	Alex Robel, Georgia Tech	<i>Predictability of future sea level rise assessed with a novel stochastic ice sheet model</i>
10:00AM	Plenary Keynote	Joe Hughes, USGS	<i>Extension of the Basic Model Interface for tight coupling of MODFLOW to other model components</i>
10:20AM	Plenary Student Keynote	Kyle Wright, UT, Austin	<i>From Grains to Plastics: Modeling Nourishment Patterns and Hydraulic Sorting of Fluvially Transported Materials in Deltas</i>
10:40AM	<b>Break</b>		
11:00AM - 12:30PM	Breakout 1 (Rm )		
	Breakout 2 (Rm )		
	Breakout 3 (Rm )		
	Breakout 4 (Rm )	Eric Hutton, Mark Piper and Tian Gan, CSDMS IF	<i>Office Hours with CSDMS Research Software Engineers</i>
12:30PM - 1:30PM	<b>Lunch</b>		
1:30PM - 3:30PM	Clinic 1.1 (Rm )	Tian Gan and Mark Piper, CSDMS IF	<i>What can CSDMS do for you? A clinic on CSDMS Products and Services</i>
	Clinic 1.2 (Rm )	Rich Signell, USGS	<i>Emerging open-source Python-based infrastructure for scalable, data-proximate analysis and visualization of model output</i>
	Clinic 1.3 (Rm )	Simon Mudd, U Edinburgh	<i>LSDtopotools</i>
	Clinic 1.4 (Rm )	Richard Barnes, UC Berkeley	<i>Using GPUs to Solve Science Problems Faster</i>
3:30PM	<b>Break</b>		
3:45PM - 6:00PM	Poster Session A		

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**Wednesday, May 17, 2023**

<b>Time</b>	<b>What</b>	<b>Presenter</b>	<b>Topic</b>
9:00AM	Welcome		Welcome
9:05 AM	<b>Plenary</b> Keynote	Thorsten Becker, UTexas	<i>Subduction dynamics and surface-deep mantle interactions</i>
9:25AM	<b>Plenary</b> Keynote	Christie Hegermiller, Sofar Ocean	<i>How industry develops and manages scientific code</i>
9:45AM	<b>Plenary</b> Keynote	Virginia Ruiz-Villanueva, UNIL	<i>Modelling instream large wood dynamics in rivers</i>
10:05AM	<b>Plenary</b> Student Keynote	Chris Tasich, Vanderbilt U	<i>A Simple Model of a Tidal Platform</i>
10:25AM	<b>Break</b>		
11:00AM - 12:30PM	<b>Plenary</b> Spring School Student Presentations	Irina Overeem - Moderator	<i>ESPIN Team Modeling Projects</i>
12:30PM - 1:30PM	<b>Lunch</b>		
1:30PM - 3:30PM	Clinic 2.1 (Rm )	Ethan Pierce, CSDMS IF	<i>Intro to Landlab</i>
	Clinic 2.2 (Rm )	John Naliboff, NMT	<i>Coupling models of lithospheric deformation and surface processes with the Advanced Solver for Problems in Earth's Convection and Tectonics (ASPECT)</i>
	Clinic 2.3 (Rm )	Randy LeVeque, UW	<i>Finite Volume Methods for Surface Dynamics Modeling</i>
	Clinic 2.4 (Rm )	Moira Zellner, Northeastern U	<i>Fora.ai: A participatory modeling platform to reshape how we collaborate for climate and social impact</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 18, 2023**

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

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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)