

CSDMS 2021 Annual Meeting: *Changing Landscapes and Seascapes: Modeling for Discovery, Decision-making and Communication*
May 17-21, 2021

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

Monday, May 17, 2021

Time	What	Presenter	Topic
3:00PM	Opening Town Hall	Brad Murray, Duke U & Greg Tucker, CSDMS Exec. Director	<i>CSDMS Updates and Community's Future Needs</i>
4:00 PM	Awards Ceremony	Greg Tucker, CSDMS Exec. Director	<i>Lifetime Achievement and Syvitski Student Modeler Awards</i>
5:00PM	Social Hour	via Wonder	

Tuesday, May 18, 2021

Time	What	Presenter	Topic
9:00AM	Welcome	Greg Tucker, CSDMS Exec. Director	Welcome and Introduction
9:05 AM	Plenary Keynote	Jacky Austermann, Lamont-Doherty Earth Observatory	<i>Integrating Numerical Models with Co-production to Understand Sea Level Change and Its Impact Around Greenland</i>
9:25AM	Plenary Keynote	Aleja Ortiz, Colby College	<i>Atolls & Ecogeomorphology: Investigating Feedbacks Between Physical, Anthropogenic, & Ecological Processes under Changing Climates via Remote Sensing, Computational Modeling, & Fieldwork</i>
9:45AM	Plenary Keynote	Tristan Salles, University of Sydney	<i>A geomorphic perspective on Quaternary biogeographic connectivities across South East Asia</i>
10:05AM	Plenary Keynote	Allison Pfeiffer, Western Washington University	<i>Modeling Bed Material Abrasion at the Basin Scale: Why the Classic Approach Fails Us</i>
10:25AM	Plenary Keynote	Arye Janoff, U.S. House of Rep Transportation & Infrastructure Subcom.	<i>From Coastal Retreat to Seaward Growth: Emergent Behaviors from Paired Community Beach Nourishment Choices</i>
10:45AM	Break		
11:00AM - 1:00PM	Clinic 1.1	Scott Peckham, University of Colorado, Boulder	<i>Component-based Hydrologic Modeling: Getting Started with the TopoFlow 3.6 Python Package</i>
	Clinic 1.2	Allen Lee, CoMSES Net and Mark Piper, CSDMS IF	<i>Git Good with FAIR Enough Practices for Scientific Software Development</i>
	Clinic 1.3	Doug Edmonds, University of Indiana and Sam Roy, Planet Labs	<i>An Introduction to using Google Earth Engine</i>
	Clinic 1.4	Nicole Gasparini, Tulane University	<i>Do the Work: Building a more Equitable Research Unit</i>
	Clinic 1.5	Chris Jenkins, University of Colorado, Boulder, AI/ML Initiative	<i>Training Datasets for Modeling with AI across the Deep-Ocean Seafloor</i>
1:00PM	Break		
1:30PM - 3:00PM	GroupMeeting/Posters	TBD	TBD
	GroupMeeting/Posters	TBD	TBD
	GroupMeeting/Posters	TBD	TBD
3:00PM	Break		
3:30PM - 5:30PM	Posters Continued		

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Wednesday, May 19, 2021

Time	What	Presenter	Topic
9:00AM	Welcome	TBD	Welcome and Introduction
9:05 AM	Plenary Keynote	Fred Ogden, NOAA-NWS Office of Water Prediction	<i>Next Generation Water Resources Modeling Framework: Opportunities for Community Involvement</i>
9:25AM	Plenary Keynote	Talea Mayo, Emory University	<i>Climate Change Impacts on Hurricane Storm Surge Risk</i>
9:45AM	Plenary Keynote	Rob Lempert, RAND Corp.	<i>Good Decisions Without Good Predictions: Decision Making Under Deep Uncertainty</i>
10:05AM	Plenary Keynote	Sondoss El Sawah, University of New South Wales, Canberra	<i>Eight Grand Challenges in Socio-environmental Systems Modelling</i>
10:25AM	Break		
11:00AM - 1:00PM	Clinic 2.1	Wei Wu, University of Southern Mississippi	<i>Introduction to R Programming and R Applications in Landscape Ecology</i>
	Clinic 2.2	Rebecca Batchelor, CIRES, CU, Boulder, Anne Gold, CU, Boulder, Diana Acero-Allard, GeoLatinas	<i>Inclusive Mentoring</i>
	Clinic 2.3	Moira Zellner, Northeastern University & Rob Lempert, RAND Corp.	<i>Decision Framing</i>
	Clinic 2.4	Tian Gan and Eric Hutton, CSDMS IF	<i>CSDMS@HydroShare: find, access, operate and couple data-model integration tools for reproducible research</i>
	Clinic 2.5	Benoit Bovy, GFZ/Independent Software Engineer	<i>Building Interactive Dashboards for Earth Surface Processes Modeling with Python and Jupyter</i>
1:00PM	Break		
1:30PM - 3:00PM	GroupMeeting/Posters	TBD	<i>TBD</i>
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3:00PM	Break		
3:30PM - 5:30PM	Posters Continued		

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Thursday, May 20, 2021

Time	What	Presenter	Topic
8:00AM	Social/Coffee Hour		
9:00AM	Welcome	TBD	Welcome and Introduction
9:05 AM	Plenary Keynote	Fernando Perez, University of California, Berkeley	<i>Jupyter Technology</i>
9:25AM	Plenary Keynote	Kerry Callaghan, LDEO, Columbia University	<i>Coupled Groundwater and Dynamic Lake Modeling using the Water-Table Model (WTM)</i>
9:45AM	Plenary Keynote	Paola Passalacqua, The University of Texas, Austin	<i>Grid or Subgrid? Analysis of River systems under Change at the Intersection of Modeling and High Resolution Data Analysis</i>
10:05AM	Plenary Keynote	Fedor Baart, Deltares	<i>Models in Virtual Environments and Digital Twins</i>
10:25AM	Plenary Keynote	Sai S. Nudurupati, RMA Inc.	<i>Modeling Transient Ecosystem Response to Climate Variability since the Late Pleistocene using Landlab</i>
10:45AM	Break		
11:00AM - 1:00PM	Clinic 3.1	Benjamin Campforts and Greg Tucker, CSDMS, IF	<i>Looking under the Hood: Landscape Evolution Modeling with TerrainBento and Landlab</i>
	Clinic 3.2	Jon Schwenk, Los Alamos National Lab	<i>Exploring river and delta channel networks with RivGraph</i>
	Clinic 3.3	Fedor Baart, Deltares	<i>Digital Twins in Earth Sciences</i>
	Clinic 3.4	Chris Vernon, Pacific Northwest National Laboratory	<i>GCAM and Demeter: A Global, Integrated Human-Earth Systems Perspective to Modeling Land Projections</i>
	Clinic 3.5	Heidi Roop, University of Minnesota	<i>Communication & Engagement: Tips, Tricks, Traps and Opportunities</i>
1:00PM	Break		
1:30PM - 3:00PM	GroupMeeting/Posters	TBD	<i>TBD</i>
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3:00PM	Break		
3:30PM - 5:30PM	Posters Continued		

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Friday, May 21 - Meetings Open to Community

9:00AM - 1:00PM	Posters Continued	
1:30PM - 3:30PM	Science Jam	More details soon!

Friday, May 21- Meetings by invitation only

9:00-11:00AM	Location: Via Zoom Link	Steering Committee Meeting	
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