

**CSDMS 2021 Annual Meeting: *Changing Landscapes and Seascapes: Modeling for Discovery, Decision-making and Communication***  
**May 18-20, 2021**

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

**Monday, May 17, 2021**

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

**Tuesday, May 18, 2021**

| <b>Time</b>      | <b>What</b>              | <b>Presenter</b>   | <b>Topic</b>  |
|------------------|--------------------------|--|---|
| 9:00AM           | Welcome                  | Brad Murray, Duke U  | Welcome   |
| 9:10 AM          | <b>Plenary Keynote</b>   | Jacky Austermann,<br>Lamont-Doherty Earth Observatory            | <i>Integrating Numerical Models with Co-production to Understand Sea Level Change and Its Impact Around Greenland</i>   |
| 9:30AM           | <b>Plenary Keynote</b>   | Aleja Ortiz, Colby College                                       | <i>Atolls &amp; Ecogeomorphology: Investigating the Feedbacks Between Physical, Anthropogenic, and Ecological Processes under Changing Climates via Remote Sensing, Computational Modeling, and Fieldwork</i> |
| 9:50AM           | <b>Plenary Keynote</b>   | Tristan Salles, University of Sydney                             | <i>A geomorphic perspective on Quaternary biogeographic connectivities across South East Asia</i>   |
| 10:10AM          | <b>Plenary Keynote</b>   | Allison Pfeiffer, Western Washington University                  | <i>Modeling Bed Material Abrasion at the Basin Scale: Why the Classic Approach Fails Us</i>   |
| 10:30AM          | <b>Break</b>             |  |   |
| 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           | <b>Break</b>             |  |   |
| 1:30PM - 3:00PM  | Group Meeting/Posters    | TBD  | TBD   |
|                  | Group Meeting/Posters    | TBD  | TBD   |
|                  | Group Meeting/Posters    | TBD  | TBD   |
|                  | Group Meeting/Posters    | TBD  | TBD   |
|                  | Group Meeting/Posters    | TBD  | TBD   |
| 3:00PM           | <b>Break</b>             |  |   |
| 3:30PM - 5:30PM  | <b>Posters Continued</b> |  |   |

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**Wednesday, May 19, 2021**

| <b>Time</b>      | <b>What</b>              | <b>Presenter</b>  | <b>Topic</b>   |
|------------------|--------------------------|---|--|
| 9:00AM           | Welcome                  | Greg Tucker, CSDMS, CU, Boulder   | Welcome  |
| 9:10 AM          | <b>Plenary</b> Keynote   | Fred Ogden, NOAA-NWS Office of Water Prediction   | <i>Next Generation Water Resources Modeling Framework: Opportunities for Community Involvement</i>               |
| 9:30AM           | <b>Plenary</b> Keynote   | Talea Mayo, Emory University  | <i>Climate Change Impacts on Hurricane Storm Surge Risk</i>  |
| 9:50AM           | <b>Plenary</b> Keynote   | Rob Lempert, RAND Corp.   | <i>Good Decisions Without Good Predictions: Decision Making Under Deep Uncertainty</i>                           |
| 10:10AM          | <b>Plenary</b> Keynote   | Sondoss El Sawah, University of New South Wales, Canberra                                     | <i>Eight Grand Challenges in Socio-environmental Systems Modelling</i>   |
| 10:30AM          | <b>Break</b>             |   |  |
| 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           | <b>Break</b>             |   |  |
| 1:30PM - 3:00PM  | GroupMeeting/Posters     | TBD   | <i>TBD</i>   |
|                  | GroupMeeting/Posters     | TBD   | <i>TBD</i>   |
|                  | GroupMeeting/Posters     | TBD   | <i>TBD</i>   |
|                  | GroupMeeting/Posters     | TBD   | <i>TBD</i>   |
|                  | GroupMeeting/Posters     | TBD   | <i>TBD</i>   |
| 3:00PM           | <b>Break</b>             |   |  |
| 3:30PM - 5:30PM  | <b>Posters Continued</b> |   |  |

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**Thursday, May 20, 2021**

| <b>Time</b>      | <b>What</b>              | <b>Presenter</b>                                    | <b>Topic</b>   |
|------------------|--------------------------|---|--|
| 8:00AM           | Social/Coffee Hour       |   |  |
| 9:00AM           | Welcome                  | Greg Tucker, CSDMS, CU, Boulder                     | Welcome  |
| 9:00 AM          | <b>Plenary</b> Keynote   | Fernando Perez, University of California, Berkeley  | <i>Jupyter Technology</i>  |
| 9:20AM           | <b>Plenary</b> Keynote   | Student Modeler Talk                                | <i>(TBD)</i>   |
| 9:40AM           | <b>Plenary</b> 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> |
| 10:00AM          | <b>Plenary</b> Keynote   | Fedor Baart, Deltares                               | <i>Models in Virtual Environments and Digital Twins</i>  |
| 10:20AM          | <b>Plenary</b> Keynote   | Student Modeler Talk                                | <i>(TBD)</i>   |
| 10:40AM          | <b>Break</b>             |   |  |
| 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 &amp; Engagement: Tips, Tricks, Traps and Opportunities</i>   |
| 1:00PM           | <b>Break</b>             |   |  |
| 1:30PM - 3:00PM  | GroupMeeting/Posters     | TBD   | <i>TBD</i>   |
|                  | GroupMeeting/Posters     | TBD   | <i>TBD</i>   |
|                  | GroupMeeting/Posters     | TBD   | <i>TBD</i>   |
|                  | GroupMeeting/Posters     | TBD   | <i>TBD</i>   |
|                  | GroupMeeting/Posters     | TBD   | <i>TBD</i>   |
| 3:00PM           | <b>Break</b>             |   |  |
| 3:30PM - 5:30PM  | <b>Posters Continued</b> |   |  |

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**Friday, May 21 - Meetings Open to Community**

|                 |                          |  |
|-----------------|--------------------------|--|
| 9:00AM - 1:00PM | <b>Posters Continued</b> |  |
| 1:30PM - 3:30PM | <b>Science Jam</b>       |  |

**Friday, May 21- Meetings by invitation only**

|                  |                         |                             |  |
|------------------|-------------------------|-----------------------------|--|
| 9:00-11:00AM     | Location: Via Zoom Link | Executive Committee Meeting |  |
| 11:30AM - 1:30PM | Location: Via Zoom Link | Steering Committee Meeting  |  |