



ON THE SURFACE

CSDMS Quarterly Newsletter
February 2022

Join CSDMS

BMI for Java

Have you ever wanted to wrap a model written in Java with a [Basic Model Interface](#) (BMI)? Now you can! As a part of the OpenEarthScape project, we've written a BMI specification for Java, along with a simple example of implementing the specification. Here's where they live on GitHub:

- **Specification:** <https://github.com/csdms/bmi-java>
- **Example:** <https://github.com/csdms/bmi-example-java>

Java joins C, C++, Fortran, and Python as languages officially supported in BMI by CSDMS.

If you'd like help using BMI for Java, contact us through the [CSDMS Help Desk](#). Comments and suggestions for improvement are always welcome—please log issues directly in the repositories above.



CSDMS 2022 Annual Meeting

[Registration now open!!!](#)

Please join us for the CSDMS Annual Meeting, "[CSDMS 2022: Environmental Extremes and Earthscape Evolution](#)", [May 17th - 19th, 2022 in Boulder, Colorado](#). The theme will be broad in scope, showcasing modeling-oriented projects that range from fundamental research in evolution of the landscape and seascape to more specific experimental or applied work involving the impact of environmental extremes on the Earthscape. Environmental extremes are widely defined to capture the morphodynamic impact of events like wildfires, hydrologic extremes, tsunamis, storm surges, or hurricanes, on the Earthscape. Registration and poster abstract submission deadline is April 15th, 2022.

There will be a great lineup of Keynote Talks and Clinics! Lively poster sessions and breakout sessions/jams will provide a chance to meet with old and new friends, and learn about new tools and resources. This meeting will be held as an in-person event at the University of Colorado, Boulder ([COVID protocols](#)).

This year CSDMS is offering a [limited number of travel scholarships](#) for graduate students, post docs, early career faculty, and faculty from minority serving institutions to attend the CSDMS annual meeting. A number of these scholarships will be offered for the purpose of increasing participation of underrepresented students. Deadline for submission is February 28th, 2022.



[Register Now!](#)
[CSDMS 2022 Spring Webinar Series](#)

Please join us for the remaining CSDMS 2022 Spring Webinars **Registration is required and links/details are provided below.** The upcoming webinars are:

A Simple Introduction to Scientific Variables Ontology

April 19th, 2022 @ 10:00AM MDT

Maria Stoica, University of Colorado, Boulder

Are you interested in expanding the reach of your scientific data or models? One way of increasing the FAIRness of your digital resources (i.e., making them more findable, accessible, interoperable, and reproducible) is by annotating them with metadata about the scientific variables they describe. In this talk, we provide a simple introduction to the Scientific Variables Ontology (SVO) and show how, with only a small number of design patterns, it can be used to neatly unpack the definitions of even quite complex scientific variables and translate them into machine-readable form.

[REGISTER](#)

HydroFrame

April 26th, 2022 @ 10:00AM MDT

Reed Maxwell, Princeton University and Laura Condon, University of Arizona

Abstract coming soon!

[REGISTER](#)

Previous CSDMS-sponsored webinars are [archived here](#) and available for viewing anytime. If you have suggestions for future Webinars, please contact csdms@colorado.edu.

Community Member News

The recipient of the 2022 CSDMS Lifetime Achievement award is [Professor Dano Roelvink](#), IHE Delft, who is recognized for global leadership in coastal engineering and research. He has made wide-ranging and influential contributions to the development and application of numerical morphodynamic models. His work in managing the development in particular of the Delft3D modeling system has greatly enhanced the capabilities of the coastal research and engineering communities. So too has his development of XBeach, the leading model for storm impacts on beaches, dunes, barrier islands, and reefs. [Full citation](#).



Congratulations to CSDMS Steering Committee Member, [Paola Passalacqua](#), University of Texas, Austin, for receiving the European Geosciences Union's 2022 Ralph Alger Bagnold Medal for outstanding scientific contributions to the study of geomorphology. Paola's research focuses on hydrological connectivity; network theory; transport on river networks and deltas; coastal restoration; Lidar and satellite imagery analysis; hydrological and geomorphic processes; hydrodynamic and morphodynamic modeling. An honor well deserved!



It is with sadness that we announce the loss of **Joe Kravitz**. Joe was bestowed the CSDMS 2016 Director's Award for his early and tireless championing of the CSDMS mission and was specifically cited for his success in funding and coordinating the three pillars of quantitative MG&G science: 1) process studies, 2) the preserved record, & 3) numerical modeling. Joe managed numerous programs at both the Office of Naval Research and the National Oceanic and Atmospheric Administration, including the now famous STRATAFORM, CSDMS's precursor. His leadership, sly sense of humor and caring manner will be missed by all who knew him.



Recent ESP-relevant Workshop Reports

National Academies of Sciences, Engineering, and Medicine. 2021. ***Global Change Research Needs and Opportunities for 2022-2031***. Washington, DC: The National Academies Press. <https://doi.org/10.17226/26055>.

National Academies of Sciences, Engineering, and Medicine. 2021. ***Identifying New Community-Driven Science Themes for NSF's Support of Paleoclimate Research: Proceedings of a Workshop***. Washington, DC: The National Academies Press. <https://doi.org/10.17226/26377>.

National Academies of Sciences, Engineering, and Medicine. 2021. ***Next Generation Earth Systems Science at the National Science Foundation***. Washington, DC: The National Academies Press. <https://doi.org/10.17226/26042>.

Vallario, B., ..., J. Morris, et. al (2021): ***Coastal Integrated HydroTerrestrial Modeling: A multi-agency invited workshop***. U.S. Global Change Research Program. (https://downloads.globalchange.gov/coasts-IG/workshop-report/C-IHTM_Workshop_Report_Nov2020.pdf)

Gonnermann, H. and Anderson, K., 2021 (preprint) ***Modeling Volcano-Magmatic Systems: Workshop Report for the Modeling Collaboratory for Subduction Research Coordination Network***. <https://doi.org/10.31223/X55G96>

Hood, R., Shenk, G., Dixon, R., et.al (2021): ***The Chesapeake Bay program modeling system: Overview and recommendations for future development***. Ecological Modelling, V456. <https://doi.org/10.1016/j.ecolmodel.2021.109635>

2022 EarthCube Annual Meeting



The 2022 EarthCube Annual Meeting will be held in-person from June 14-16 in San Diego, CA. Abstracts for presentations, posters, working sessions, and notebooks are due by March 8th. Details [HERE](#).

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