



USACM News
March 2025

USNCCM18

The [18th U.S. National Congress on Computational Mechanics](#) will be held July 20-24, 2025 in Chicago, Illinois. We are looking forward to welcoming you then.

- [Registration](#) is now open.
- Pre-congress [short courses](#) are now available to view.
- [Travel award applications](#) will close on March 31.
- [Poster submissions](#) will close on March 31.

(USNC/TAM) - Call for Proposals to Host

The U.S. National Committee on Theoretical and Applied Mechanics (USNC/TAM) is soliciting proposals from institutions wishing to host the 2030 U.S. National Congress on Theoretical and Applied Mechanics.

The deadline for submissions is **March 20, 2025**. More information can be found [here](#).

International Conference on Mathematical and Scientific Machine Learning, Aug 4-8, 2025

We'd like to announce the 2025 edition of [MSML](#) (Mathematical and Scientific Machine Learning) to be held in Naples, Italy on **August 4-8, 2025**.

The abstract submission for contributed talks and posters is now open and available at this [link](#). The deadline for submission is **March 31, 2025**. This edition will feature attention mechanisms, causal inference, optimization, optimal transport, and GNNs; other themes such as neural operators, transformers, state-space models, KANs, and general mathematics of machine learning will also be covered.

We hope to see you in Naples this coming summer.

TTA Corner

Energy & Earth Systems

- [AIDT4ES](#), Austin, Texas, September 22-24, 2025. [Abstract Submissions](#) are now open.
- Our next webinar will take place on **April 8, 2025 at 8AM PDT**. The speaker will be Prof. Baskar Ganapathysubramanian from Iowa State University speaking on "Engineering the Future of Food (Security): Computational Mechanics for Crop Design".

Join via Zoom:

<https://us06web.zoom.us/j/89805920868?pwd=UaxOZeVHZAs9BeKkjqRWbNadZYCIzo.1>

Nanotechnology and Lower Scale Phenomena

- [Nanomaterials2025](#), Champaign, Illinois, September 15-17, 2025.

Novel Methods in Computational Engineering and Sciences

- Our Spring 2025 Seminar will take place on **March 28, 2025 at 8AM MDT**. The speakers will be Dr. Laura De Lorenzis speaking on "Lattice Boltzmann for solid mechanics: elastostatics and elastodynamics", and Dr. Pablo Seleson speaking on "Breaking Through: Harnessing Exascale Computing and Peridynamics for Complex Fracture Modeling".

Join via Zoom:

<https://utah.zoom.us/j/92986632012>

Uncertainty Quantification and Probabilistic Modeling

- Our next webinar will take place on **March 20, 2025 at 3PM EDT**. The speaker will be Youssef Marzouk from Massachusetts Institute of Technology speaking on "Sampling and generative modeling using dynamical representations of transport".

Join via Zoom:

<https://us06web.zoom.us/j/92756548524?pwd=cTFoRXIvNVVN4dVFoaHEzK0pQQjhldz09>

Student Chapter Corner

- Our next seminar will take place on March 27, 2025, at 4 PM EST. The speaker will be Yifan Du from Johns Hopkins University speaking on " Evolutional deep neural network for time dependent PDEs".

Join via Zoom:

<https://us06web.zoom.us/j/82464478256?pwd=ZMkJVFdjMJzadgnVWFQsdUSs4qTaY.1>

- Join the community online at the [USACM Student Chapter Discord Server](#).