



USACM News
January 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.

- [Abstract submission](#) has been extended to January 31.
- Pre-congress [short courses](#) are now available to view.
- [Travel award applications](#) are now open.
- [Poster submissions](#) are now open.

USNCCM20 - Notification of Interest

USACM announces a [Notification of Interest \(NOI\)](#) to host USNCCM20 in 2029.

At this time, we are soliciting information from those who have some interest in hosting the 20th U.S. National Congress on Computational Mechanics in 2029. The deadline to submit your interest is **March 1**.

Contact us at admin@usacm.org if you have any questions.

(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](#).

Call for Nominations: 2025 Rising Stars in Computational and Data Sciences

The sixth Rising Stars in Computational and Data Sciences Workshop will be held April 22-23, 2025, at the Oden Institute for Computational Engineering and Sciences at UT Austin. The event is co-organized by the Oden Institute and Lawrence Livermore, Los Alamos, and Sandia National Laboratories. Rising Stars is an intensive workshop for graduate students and postdocs who are interested in pursuing academic and research careers. A primary focus of the workshop is broadening the participation of early career researchers in computational and data sciences.

We are seeking nominations for outstanding candidates in their final year of PhD or within three years of having graduated (and not yet in a permanent faculty or staff position). We will select approximately 30 participants to come for two days of research presentations and interactive discussions about academic and research careers, with financial support for travel provided. We seek participants with excellent research records and with a demonstrated record of service to their academic and/or professional communities.

Nominations require (1) a letter of nomination and (2) the nominee's two-page resume. Nominations are due January 31, 2025 and should be submitted

at <https://app.smartsheet.com/b/form/98af5589a8c44c6895f1ec931affd052>.

For questions, please contact director@oden.utexas.edu with the subject line "Rising Stars." More information is available at <https://risingstars.odan.utexas.edu/>.

New Conferences

- [Emerging Trends in Nanomechanics: Experimental Computational and Machine Learning Approaches \(Nanomaterials2025\)](#) will be held in Champaign, Illinois, USA, on April 14-16, 2025.
 - [Artificial Intelligence and Digital Twins for Earth Systems \(AIDT4ES\)](#) will be held in Austin, Texas, September 22-24, 2025.
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TTA Corner

Energy & Earth Systems

- [AIDT4ES](#), Austin, Texas, September 22-24, 2025.
- Our next webinar will take place on **January 28, 2025 at 8AM PST**. The speaker will be Dr. Artem Korobenko from University of Calgary speaking on "Advances in modeling wind turbines with variational multiscale methods: from blade-resolved simulation to reduced-order modeling".

Join via Zoom:

<https://us06web.zoom.us/j/89805920868?pwd=UaxOZeVHZAs9BeKkjqRWbNadZYClZo.1>

Nanotechnology and Lower Scale Phenomena

- [Nanomaterials2025](#), Champaign, Illinois, April 14-16, 2025.

Uncertainty Quantification and Probabilistic Modeling

- Our next webinar will take place on **January 16, 2025 at 3PM EST**. The speaker will be Amanda Howard from Pacific Northwest National Laboratory speaking on "Multifidelity, domain decomposition, and stacking for improving training for physics-informed networks". We will have another webinar take place on **February 13, 2025 at 8AM PST**. The speaker will be Alireza Doostan from University of Colorado, Boulder speaking on "Uncertainty Quantification and Generative Modeling Using Multi-fidelity Strategies"..

Join via Zoom:

<https://us06web.zoom.us/j/92756548524?pwd=cTFoRXIvNVN4dVFoaHEzK0pQQjhldz09>

Student Chapter Corner

- We are pleased to announce the results of the Student Chapter Elections:

Chair: Yanrong Xiao, Johns Hopkins University

Vice-Chair: Joan Ejeta, North Carolina A&T State University

Members-at-Large: Joseph Amponsah, Iowa State University, and Elaheh Mehdizadeh, University of Pittsburgh

Please welcome our new officers for the USACM Student Chapter.

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