September 2024

USNCCM18

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

We are now accepting proposals for minisymposia. The deadline for minisymposia proposal [submission](#) is **October 15**.

USNC/TAM 5-Minute Virtual Thesis in Mechanics Competition – Finalist Presentations and Awards Ceremony

We would like to invite you to the U.S. National Committee for Theoretical and Applied Mechanics (USNC/TAM) 5-Minute Virtual Thesis in Mechanics Competition for recent PhD graduates. This event aims to promote the achievements of recent graduates and share current topics in mechanics with the broader community.

A subcommittee of USNC/TAM has selected **10 finalists**, who will present their research live this **Friday, September 20, at 3 PM ET**. We invite you

to register for the presentations and awards ceremony using the following link.

During the ceremony, the following prizes will be awarded:

- First place: $2,000
- Second place: $1,500
- Third place: $1,000
- People's Choice: $500

This event offers a unique chance to explore a wide range of cutting-edge mechanics research in the USA, and participants will also have the opportunity to vote for the People's Choice Award.

Second Annual SciML Workshop

The [Second Annual SciML Workshop](link), organized by the SciML center, at the Oden Institute, the University of Texas at Austin, will be held from October 2-4, 2024.

You are invited to register and submit a talk or poster. While we aim to include all registered talks (25 minutes talk + 5 minutes for questions), the actual number of talks will be limited by the 3-day period.

Royal Society Publishing: *Philosophical Transactions A:* Current developments in elastic and acoustic metamaterials science (Parts 1 & 2)

Royal Society Publishing has recently published a special double issue of *Philosophical Transactions A*: **Current developments in elastic and**

acoustic metamaterials science (Parts 1 & 2), compiled and edited by Giuseppe Failla, Alessandro Marzani, Antonio Palermo, Andrea Russillo and Daniel Colquitt and the articles can be accessed directly at www.bit.ly/TransA2278 and www.bit.ly/TransA2279.

A print version is also available at the special price of £40.00 per issue from sales@royalsociety.org.

If you are interested in submitting new theme issues, please visit the website https://royalsocietypublish.ing.org/rsta/guest-editors or contact the Editorial Office for more information at philtransa@royalsociety.org

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TTA Corner

Energy & Earth Systems

- Our next webinar will take place on **October 1 at 8AM PT**. The speaker will be Ronaldo Borja from Stanford University speaking on "The poromechanics of shale. We will have another webinar take place on **October 15, 2024 at 8AM PT.** The speaker will be Dr. Alejandro Mota from Sandia National Laboratories.

  Join via Zoom: https://us06web.zoom.us/j/89805920868?pwd=UaxOZeVHZAs9BeKkjqRWbNadZYCIZo.1

Isogeometric Analysis

- [IGA 2024](IGA%202024), St. Augustine, Florida, October 27-30, 2024.

Large Scale Structural Systems and Optimal Design

- Our next industrial colloquium will take place on **November 6 at 1PM CT.**

  Join via Zoom: https://us06web.zoom.us/j/87331120699?pwd=MExkQ085ZHh1aDc3ZnBwQzFlUHI4UT09

Nanotechnology and Lower Scale Phenomena

- Our next webinar will take place on **September 25 at 2PM CST.** The speaker will be Prof. Michele Ceriotti from EPFL speaking on "More than physics, more than data: Integrated machine-learning models for materials".

  Join via Zoom: https://us06web.zoom.us/j/84541274013?pwd=ZDhuM09BaUlVVlBuREhEV0sweGFlZz0

Uncertainty Quantification and Probabilistic Modeling

- Our next webinar will take place on **September 23 at 2PM ET.** The speaker will be Kathryn Maupin from Sandia National Laboratories speaking on "Validation of Displacement Damage Models". We will have another webinar take place on **October 10 at 3PM ET.** The speaker will be Elizabeth Qian from Georgia Tech speaking on "Multifidelity linear regression for scientific machine learning from scarce data".

  Join via Zoom: https://us06web.zoom.us/j/92756548524?pwd=cTFoRXIvNVN4dVFoaHEzK0pQQjhldz09

Student Chapter Corner

- The Student Chapter is looking for volunteer applicants for leadership positions. If you are interested in organizing and facilitating the Student Chapter as an Executive Member, send us your resume with a brief statement of your background or any events and ideas you would like to organize to studentchapter@usacm.org.

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