



*USACM News*

**April 2024**

### **WCCM 2024**

The [16th World Congress on Computational Mechanics \(WCCM2024\)](#) and [4<sup>th</sup> Pan American Congress on Computational Mechanics \(PANACM2024\)](#) will take place on **July 21 – July 26, 2024** in **Vancouver, BC, Canada**.

The abstract submission for oral presentations has now passed. However, submissions for the [poster session](#) are now being taken until **April 30**.

Submissions of [extended abstracts](#) are being accepted until **May 31**.

The WCCM/PANACM Congress is co-organized by the International Association for Computational Mechanics (IACM) and the Canadian Association for Computational Science and Engineering (CACSE).

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### **Quarter Century of Peridynamics**

[Quarter Century of Peridynamics](#) will be held in Tucson, Arizona, April 23-25, 2024 at the El Conquistador Hilton Resort. There is still time to register if you are interested.

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## TTA Corner

### Data-Driven Modeling / Uncertainty Quantification and Probabilistic Modeling

- [Second USACM Thematic Conference on Uncertainty Quantification for Machine Learning Integrated Physics Modeling \(UQ-MLIP 2024\)](#) Crystal City, Arlington, Virginia, August 12-14, 2024.

### Energy & Earth Systems

- Our next webinar will be on **May 13 at 10am CST**. The speaker will be Dr. Alejandro Mota from Sandia National Laboratories.

#### Join via Zoom:

<https://us06web.zoom.us/j/89805920868?pwd=UaxOZeVHZA9BeKkjqRWbNadZYCIZo.1>

### Isogeometric Analysis

- [IGA 2024](#), St. Augustine, Florida, October 27-30, 2024.  
[Abstract submission](#) is now open and will close on April 30.

### Novel Methods in Computational Engineering and Sciences

- [Quarter Century of Peridynamics](#), Tucson, Arizona, April 23-25, 2024
- Our Spring Seminar will be on **April 19 at 10am EST**. The speakers will be Professor Dennis Kochmann from ETH Zurich speaking on

“Multiscale optimization of (meta-) materials by computational mechanics vs. machine learning” and Assistant Professor Emma Lejeune from Boston University speaking on “Data driven modeling of mechanical systems”.

Join via Zoom: <https://utah.zoom.us/j/92701194063>

## Uncertainty Quantification and Probabilistic Modeling

- Our next webinar will be on **May 6 at 1pm CDT**. The speaker will be Assad Oberai from University of Southern California speaking on "Diffusion Models for Solving Large Scale Probabilistic Inverse Problems".

Join via

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

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## Student Chapter Corner

- The USACM Student Chapter presents the **Computational Mechanics Student Mentorship Program (CMSMP)**, an initiative aimed at connecting aspiring students with seasoned mentors in the field of Computational Mechanics. As a mentee, you can gain invaluable insights into the world of Computational Mechanics, receive guidance on academic and career pathways, and unlock the potential for future collaborations. As a mentor, you can make a significant impact by sharing your knowledge, supporting aspiring students, and fostering professional relationships. Don't miss your chance to be part of this exciting journey! Whether

you're a mentor or mentee, your involvement is invaluable. More details can be found in the [signup form](#). Join us today!!

- 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](mailto:studentchapter@usacm.org).
- Join the community online at the [USACM Student Chapter Discord Server](#)