



## *USACM News*

**April 2026**

### **2026 USACM Executive Committee Election Results**

Our thanks to all who participated in the USACM elections, both candidates and voters.

We are pleased to announce the new members of the USACM Executive Committee as follows:

**Secretary-Treasurer:**

Hector Gomez, Purdue University

**Members-at-Large** (listed alphabetically):

Miguel Bessa, Brown University

James Foulk, Sandia National Laboratories

Yue Yu, Lehigh University

Congratulations!

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## New USACM Conferences

- [AI-Empowered Simulations & CAE Applications via Engineering Software 2.0 and 3.0 \(AESCAPE 2026\)](#) will be held in Dallas, Texas on September 8-11, 2026.

You are invited to the premier convergence of computational mechanics and artificial intelligence. This workshop has a vision of exploring the transformative potential of Engineering Software 2.0 and 3.0 to redefine large-scale, physics-informed AI modeling. [Abstract submissions](#) are open until April 30.

- [Quantum Computing-Enabled Engineering: PDEs, Mechanics, and Design Optimization \(QC2026\)](#) will be held in Nashville, Tennessee on August 6-7, 2026.

We're excited to announce an upcoming workshop bringing together researchers from academia, industry, and government labs to explore the near-term potential of quantum computing in engineering. Focusing on fields such as civil, mechanical, materials, and advanced manufacturing, the workshop will highlight applications in differential equations, multiscale and multi-physics systems, optimization, and uncertainty quantification. Participants will identify high-impact use cases and develop a roadmap to accelerate quantum-enabled engineering solutions.

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## USACM Student Chapter Poster Competition

The USACM Student Chapter is pleased to invite you to the final round of our virtual poster competition on April 18, 2026, from 2:00 to 3:00 PM EDT. After abstract and video review rounds, ten finalists were selected by volunteer judges to advance to the final round. Each finalist will give a five-minute presentation on their computational mechanics research, and we would be delighted to have you join us online. We hope the event will be engaging, informative, and inspiring. Professional judges

(Patrick Diehl, John Evans, David Littlewood, Jessica Zhang, and Steven Girven) will select the top three awardees, and all attendees are warmly invited to vote for their favorite speaker for the People's Choice Award.

**Join via**

**Zoom:** <https://us06web.zoom.us/j/82464478256?pwd=ZMkJVfdjMJzadgnVWFPqsdUSs4qTaY.1>

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## HIDDEN-AI Summer Short Course 2026

HIDDEN-AI is pleased to invite you to *Mechanistic Computational Intelligence for Science and Engineering*, a 2.5-day intensive course exploring how AI - particularly hierarchical neural networks and agentic AI - can be integrated with finite element analysis (FEA) to solve complex challenges in materials, design, manufacturing and multiphysics. The short course will be held June 22-24, 2026 in Evanston, IL.

Participants will gain:

- **Familiarity in Agentic AI for CAE:** Learn how it addresses fundamental challenges in Computational Science and Engineering.
- **Precision at Scale:** Insights into tackling simulations that require unparalleled precision and accuracy or involve extremely large degrees of freedom.
- **Seamless Integration:** Understanding of how to bridge data-driven AI training and data-free AI solving.
- **Hands-on Experience:** Practical application of cutting-edge HIDDEN-AI software to real-world industry problems.

**Instructional Team:** \* Prof. Wing Kam Liu (Northwestern University), Prof. Dong Qian (The University of Texas at Dallas), **HIDENN-AI Development Team:** Dr. Gino Domel, Dr. Chanwook Park, Dr. Jiachen Guo, and Dr. Joseph Leonor.

**Registration:** Registration is currently open. For more details and to sign up, please visit the HIDENN-AI short course page: <https://www.hidenn.ai/short-course>.

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### **WCCM-ECCOMAS 2026**

[WCCM-ECCOMAS 2026](#) will be held in Munich, Germany on July 19-24, 2026.

[Registration](#) is now open.

Please note that members of IACM will receive a discounted registration rate. If you are planning to attend WCCM-ECCOMAS, and are an active member of USACM in good standing, please download and fill out the membership certification form from the WCCM-ECCOMAS website and send it to [admin@usacm.org](mailto:admin@usacm.org) for processing.

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### **USNC/TAM'26**

The [20th U.S. National Congress of Theoretical and Applied Mechanics](#) will be held in Pasadena, California on June 21-25, 2026.

USNC/TAM'26 aims to foster and promote the exchange of ideas and information among the various disciplines of the theoretical and applied mechanics community around the world, and chart future priorities in mechanics related research, applications and education.

[Registration](#) is now open.

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### **TTA Corner**

Computational Fluid Dynamics and Fluid-Structure Interaction

- Our next webinar will take place on **May 1, 2026 at 10:00AM CDT**. The speaker will be Prof. Jian-Xun Wang from Cornell University speaking on "Differentiable Hybrid Neural-PDE Operator for Modeling of Spatiotemporal Physics".

**Join via**

**Zoom:** <https://us06web.zoom.us/j/83559598613?pwd=nyFbCjlt4cIOTBjT558DLRaNRfxMz1.1>

## Energy & Earth Systems

- Our next webinar will take place on **April 21, 2026 at 8:00AM PDT**. The speaker will be Marianna Maiaru from Columbia University speaking on "Enabling Next-Generation Wind Blades Through Process-Aware Composite Design". **This talk will not be recorded.**

**Join via**

**Zoom:** <https://us06web.zoom.us/j/89805920868?pwd=UaxOZeVHZAs9BeKkjgRWbNadZYCIZo.1>

## Large Scale Structural Systems and Optimal Design

- Our next webinar will take place on **May 6, 2026 at 1:00PM CDT**. The speakers will be Dr. Aaditya Chandrasekhar from Northwestern University speaking on "Topology Optimization of Compositionally Graded Alloys for Extreme Thermo-Mechanical Environments" followed by Dr. Brianna Macnider from Lawrence Livermore National Laboratory speaking on "Gradient-based Design Optimization for Structural Dynamics".

**Join via**

**Zoom:** <https://us06web.zoom.us/j/87331120699?pwd=MExkQ085ZHh1aDc3ZnBwQzFIUHI4UT09>

## Quantum Computing

- [Quantum Computing-Enabled Engineering: PDEs, Mechanics, and Design Optimization \(QC2026\)](#) will be held in Nashville, Tennessee on August 6-7, 2026.

## Uncertainty Quantification and Probabilistic Modeling

- Our next webinar will take place on **April 16, 2026 at 3:00PM EDT**. The speaker will be Jinlong Wu from University of Wisconsin-Madison speaking on "Learning Stochastic Closure Models for Complex Dynamical Systems".

### Join via

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

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## Student Chapter Corner

- Join the community online at the [USACM Student Chapter Discord Server](#).
- Our next seminar will take place on **April 17, 2026 at 11:30AM EDT**. The speaker will be Yangyuanchen Liu from Johns Hopkins University speaking on "Damage Sensing Digital Twin for Piezocomposites Integrating Neural Operator with Parametrically Upscaled Constitutive Damage Model".

### Join via

**Zoom:** <https://us06web.zoom.us/j/82464478256?pwd=ZMkJVfdjMjZadgnVWFPqsdUSs4qTaY.1>

- The USACM Student Chapter is pleased to announce the launch of its Mentoring Program for this year. This program aims to connect undergraduate and graduate students with faculty members, industry professionals, postdocs, and senior graduate students

within the U.S. computational mechanics community. **[Mentee registration](#) ends TODAY.**

- The USACM Student Chapter is pleased to invite you to the final round of our virtual poster competition on April 18, 2026, from 2:00 to 3:00 PM EDT. Ten finalists will each give a five-minute presentation on their computational mechanics research, and we would be delighted to have you join us online. We hope the event will be engaging, informative, and inspiring. Professional judges will select the top three awardees, and all attendees are warmly invited to vote for their favorite speaker for the People's Choice Award.

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- There are openings for Graduate and Postdoc positions at Johns Hopkins University in the Computational Mechanics Research Laboratory (CMRL) and Center for Integrated Structure Materials Modeling & Simulations (CISMMS). The positions are in the Somnath Ghosh ([sghosh20@jhu.edu](mailto:sghosh20@jhu.edu)) Group in the Department of Civil Engineering.