

ERMR 2025

19th International Conference on Electrorheological Fluids and Magnetorheological Suspensions

7th – 10th July, 2025, Montreal, Canada



Welcome to the 19th International Conference on Electrorheological Fluids and Magnetorheological Suspensions (ERMR2025). We are delighted to extend this invitation for you to attend ERMR2025 at Concordia University in Montreal, Canada from July 7th to 10th, 2025, for a compelling exploration of electro and magneto-responsive materials ranging from basic material science to engineering applications.

Conference Topics:

- Electrorheological (ER) fluids: materials and physical properties
- Electrorheological gels and elastomers
- Ferrofluids: materials and applications
- Magnetoactive soft robotics and actuators
- Magnetoactive metamaterials
- Magnetorheological (MR) suspensions: materials and characteristics
- MR elastomers and gels: materials and physical properties
- MR and ER based Adaptive vibration absorbers and isolators
- Aerospace and ground technologies featuring MR and ER materials
- Stimuli-responsive bio-materials and colloids
- Emerging stimuli-responsive materials including graphene, graphene oxide, LC, Pickering, new type of magnetic particles, etc.
- Smart fluid-based energy saving and harvest
- ER and MR polishing
- Engineering applications of ER and MR materials
- Innovative techniques in magnetic actuation: Helmholtz and Maxwell coils
- Medical and pharmaceutical applications of ER and MR materials
- Other related field-responsive systems

Confirmed Plenary Speakers:

- Prof. Mehdi Ahmadian, *Virginia Tech, USA*
- Prof. Xin Zhang, *Boston University, USA*
- Prof. Weihua Li, *University of Wollongong, Australia*
- Prof. Norman Wereley, *University of Maryland at College Park, USA*
- Prof. Jean-Sebastien Plante, *Sherbrooke University, Canada*
- Prof. Xufeng Dong, *Dalian University of Technology, China*
- Prof. Stefan Odenbach, *Technische Universität Dresden, Germany*
- Prof. Ken Loh, *University of California San Diego, USA*

Important Dates

- ▶ **Submission Deadline:**
Feb. 1, 2025
- ▶ **Acceptance Notification:**
Feb. 28, 2025
- ▶ **Registration Opens:**
March 1, 2025

Special Issue

- ▶ **Journal of Intelligent Material Systems and Structures**

Awards

- ▶ **Up to three awards will be given for the best student-presented papers.**

Conference Venue

- ▶ **Concordia University
Conference Center
1400 De Maisonneuve Blvd W,
Montreal, Canada**

Contact

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