

**International Mechanical Engineering
Congress & Exposition®****Conference:** November 16-20, 2025**Exhibition:** November 17-19, 2025**Presentation Only Abstract
Submission Deadline: July 15****Renasant Convention Center | Memphis, TN, USA****Submission of Presentation Only/Poster Abstracts****Deadline is July 15, 2025****Congress-Wide Symposium on NDE & SHM**

Congress-wide Symposium on NDE & SHM at IMECE 2025 will provide a venue for discussion, and dissemination of ideas and advancements in Nondestructive Evaluation (NDE), Structural Health Monitoring (SHM), and prognosis. The symposium is organized within the following tracks:

Track 1: Acoustics, Vibration, and Phononics

- 1-4 Ultrasonic waves for material characterization and damage assessment
Andrei Zagrai, New Mexico Tech
Portia Banerjee, NASA Ames Research Center
- 1-5 Computational nondestructive evaluation and structural health monitoring
Jiaze He, Harbin Institute of Technology
Taizo Maruyama, Tokyo Institute of Technology

Track 3: Advanced Manufacturing

- 3-8 Non-destructive Evaluation and In-situ Monitoring for Advanced Manufacturing
Hossein Taheri, Georgia Southern University
Yanfeng Shen, Shanghai Jiao Tong University

Track 8: Dynamics, Vibration, and Control

- 8-20 Dynamics, Vibration, and Control for Structural Health Monitoring Applications
Yanfeng Shen, Shanghai Jiao Tong University
Liangliang Cheng, University of Groningen

Track 13: Mechanics of Solids, Structures, and Fluids

- 13-24 Fatigue and fracture evaluation and quantification for failure analysis
Yuris Dzenis, University of Nebraska-Lincoln
Mohammad Harb, American University of Beirut

Track 15: Safety Engineering, Risk, and Reliability Analysis

- 15-7 NDE and prognostics of structures and systems
Yang Liu, Tianjin University
Andrei Zagrai, New Mexico Tech

Track 20: Research Poster

- 20-15 Congress-Wide Symposium in NDE & SHM Student Poster Competition
Andrea P. Argüelles, Penn State University
- USD\$500 for first prize, USD\$300 for second prize, and USD\$200 for honorary mention.

Information of CSNS on IMECE website (<https://event.asme.org/IMECE>). Contributions to the Congress-wide Symposium on NDE & SHM may include Presentations Only and Research Posters at this stage.

Chair: **Jiaze He**, Harbin Institute of Technology, jiazehe@hit.edu.cn; Co-Chairs: **Yanfeng Shen**, Shanghai Jiao Tong University, yanfeng.shen@sjtu.edu.cn; **Portia Banerjee**, NASA Ames Research Center, portia.banerjee@nasa.gov; **Andrei Zagrai**, New Mexico Tech, andrei.zagrai@nmt.edu; **Yuris Dzenis**, University of Nebraska-Lincoln, ydzenis@unl.edu.