

Call for Papers

The International Conference on Leading Edge Manufacturing/Materials & Processing (LEM&P 2027)

June 21 (Mon) to 25 (Fri), 2027

Oregon State University – Corvallis, Oregon, USA

Organized by Manufacturing and Machine Tool Division, JSME

Co-organized by Manufacturing Systems Division, JSME

Co-located with MSEC2027 and NAMRC55

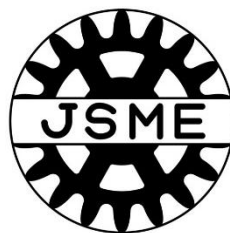
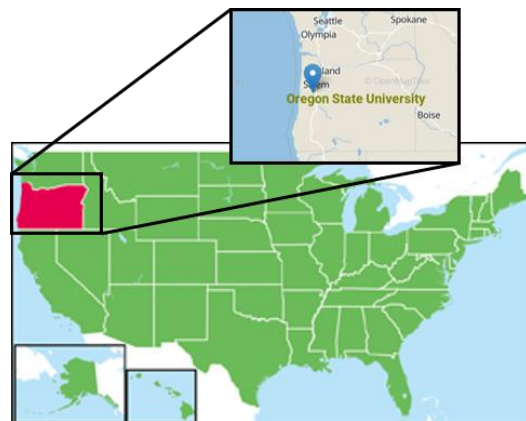
Co-sponsors:

American Society of Mechanical Engineers (ASME)

Society of Manufacturing Engineers (SME)

The Japan Society of Mechanical Engineers (JSME)

Oregon State University



1st Call for Papers

The International Conference on Leading Edge Manufacturing/Materials & Processing (LEM&P 2027)

June 21 (Mon.) to 25 (Fri.), 2027, Corvallis, OR, USA

The International Conference on Leading Edge Manufacturing/Materials & Processing (LEM&P2027) will be held at Oregon State University in Corvallis, OR, USA, co-located with the ASME Manufacturing Science and Engineering Conference (MSEC2027) and the SME North American Manufacturing Research Conference (NAMRC55). LEM&P aims to provide an atmosphere for researchers and engineers to discuss and exchange ideas, methods and results in conventional, contemporary, and future topics related to a wide variety of manufacturing technologies. LEM&P calls papers for oral and poster sessions. Oral presentations will be allocated 25 minutes for full papers and 15 minutes for brief papers, including discussion; and the posters will be presented in 120 min sessions.

Organized sessions:

Track 1: Machine tool technologies

- 1 - 1 Advanced machine tools
- 1 - 2 Evaluation of machine tool performance
- 1 - 3 Mechatronics and control technologies
- 1 - 4 Machine and mechanical elements

Track 2: Machining processes

- 2 - 1 Cutting technologies
- 2 - 2 Grinding technologies
- 2 - 3 Finishing technologies

Track 3: Advanced manufacturing processes

- 3 - 1 Electrical machining
- 3 - 2 Energy beam processing
- 3 - 3 Additive manufacturing

Track 4: Micro manufacturing and surface technology

- 4 - 1 Nano/Micro machining
- 4 - 2 Micro-manufacturing for science
- 4 - 3 Surface machining/treatments and tribology

Track 5: Metrology, monitoring and evaluation

- 5 - 1 Nano/Micro measurement and intelligent instruments
- 5 - 2 Monitoring of machining process
- 5 - 3 Dynamic behavior of materials and structures
- 5 - 4 Nondestructive Evaluations of materials, structures and processing

Track 6: Manufacturing systems

- 6 - 1 Digital design and manufacturing (CAD / CAM)
- 6 - 2 Smart manufacturing systems and scheduling

Track 7: Materials

- 7 - 1 Advanced materials and applications
- 7 - 2 Advanced structural/functional materials
- 7 - 3 Advanced materials processing

Important dates

Deadline of paper application with abstract:	October 16, 2026
Notification of tentative acceptance based on abstract:	October 30, 2026
Deadline of full manuscript submission:	November 27, 2026
Notification of paper acceptance:	January 29, 2027
Deadline of final camera - ready manuscript:	March 19, 2027

Abstract submission

An abstract of approximately 200 words is required for each paper. Authors are requested to submit the paper title, author information, preferred presentation format (oral (full paper/brief paper) or poster), and abstract via the conference website (to be announced). The abstract submission deadline is October 16, 2026.

Paper submission

All manuscripts should be prepared using the conference paper template. Papers for oral presentations should be 4-6 pages (full paper) or 2-4 pages (brief paper) in length, while extended abstracts for poster presentations should be 1-2 pages in length. Manuscripts should be submitted as PDF files via the conference website (to be announced). The paper submission deadline is November 27, 2026. Papers presented can be submitted to the special issue in Journal of Advanced Mechanical Design, Systems, and Manufacturing (JAMDSM). Selected papers will be recommended to submit to JAMDSM. All submissions to the special issue will undergo the journal's standard peer-review process, and invitation does not guarantee acceptance.

Conference Organization (TBD)

Yasuhiko Suzuki, Yamazaki Mazak Corporation
Kazumasa Kono, Makino Milling Machine Co., Ltd.
Masako Sudo, FANUC Corporation
Takashi Matsumura, Tokyo Denki University
Tatsuya Sugihara, The University of Osaka
Kazutoshi Katahira, RIKEN
Toshitake Tateno, Meiji University
Junpei Sakurai, Sojo University

Hiroyuki Narahara, Kyushu Institute of Technology
Hiroyuki Sasahara, Tokyo University of Agriculture and Technology
Yasuhiro Takaya, The University of Osaka
Norikazu Suzuki, Kobe University
Yohei Hashimoto, Kanazawa University
Takeyuki Abe, Saitama University
Yoshitaka Tanimizu, Waseda University
Seiichi Hata, Nagoya University

Venue

Venue for technical sessions: Oregon State University – Corvallis, OR (<https://oregonstate.edu/>)

General contact

Program chair: Norikazu Suzuki, Kobe University, Email: nsuzuki@mech.kobe-u.ac.jp

Secretariats: Tatsuya Sugihara, The University of Osaka, Email: t-sugihara@mech.eng.osaka-u.ac.jp

Yohei Hashimoto, Kanazawa University, Email: hashimoto@se.kanazawa-u.ac.jp

Conference webpage (to be announced)