



MMP 2027

— RIGA, LATVIA —



HOST INSTITUTIONS



FACULTY OF
SCIENCE AND
TECHNOLOGY

WITH SUPPORT FROM



University of Latvia
Institute of Physics

Institute of Physics (Salaspils)



Institute of
Electrotechnology (ETP)



Leibniz
Universität
Hannover

Leibniz University Hannover

FIRST ANNOUNCEMENT & CALL FOR ABSTRACTS

MODELLING FOR MATERIALS PROCESSING

14-18 JUNE 2027 | RIGA, LATVIA

House of Science, University of Latvia

11th conference in the MEP/MMP conference series

14-15 JUNE

ETP & MHD SCHOOL

16-18 JUNE

MAIN CONFERENCE

www.mmp2027.lu.lv

Abstract deadline: 15 March 2027

mmp2027@lu.lv

WELCOME RECEPTION | 15 JUNE | 18:00

IN-PERSON EVENT ONLY | NO REMOTE PARTICIPATION OR LIVESTREAM





MMP 2027

RIGA, LATVIA
JUNE 14-18, 2027

MAIN FACTS & FIGURES

First Announcement - October 2026

11th conference in the MEP/MMP conference series

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DAYS

2 + 3

SCHOOL + CONFERENCE

6

SCIENTIFIC SECTIONS

6 / 7

KEYNOTES / SPEAKERS

19

SCIENTIFIC COMMITTEE

15

SCHOOL PLACES

SCIENTIFIC SCOPE

- Electrothermal processing (ETP) - induction, microwave and electric-arc heating, crystal growth, semiconductors and related technologies.
- Applied MHD - metallurgy, additive manufacturing, chemical engineering, heat storage/transfer and liquid-metal technologies.
- MHD fundamentals - turbulence, dynamo effects, boundary/inlet effects, thermoelectric and multiphase MHD.
- CFD methods in MHD & ETP - turbulence models, numerical schemes, multiphase/reactive flow, phase change and multiphysics coupling.
- Non-invasive measurements - transmission/tomographic imaging, inductive methods, ultrasound diagnostics and flow-rate measurements.
- Data-driven methods - modal/low-rank methods, compressed sensing, inverse problems, machine learning, ROMs and digital twins.

ETP & MHD SCHOOL | 14-15 JUNE

Limited-capacity hands-on School combining lectures with computational and experimental activities. Detailed programme information will be released in November 2026. 15 places + waiting list. BSc/MSc/PhD students are prioritized; postdocs and other registered participants may request remaining places.

IMPORTANT DATES

Abstract deadline	15 Mar 2027
Acceptance notification	31 Mar 2027
Early registration ends	30 Apr 2027
Final programme target	15 May 2027
Registration closes	31 May 2027
ETP & MHD School	14-15 Jun 2027
Welcome Reception	15 Jun 2027, 18:00
Main conference	16-18 Jun 2027

REGISTRATION FEES

Regular participant - early	EUR 600
Regular participant - regular	EUR 700
BSc/MSc/PhD student	EUR 300

All participant-facing fees include applicable VAT. Early: through 30 Apr; regular: 1-31 May. Registration closes 31 May. Postdocs use the regular category. Student fee is flat; a confirmed School place is included at no additional charge.

ABSTRACT SUBMISSION

1-2 pages in English | Official MMP 2027 LaTeX and Microsoft Word templates

Maximum 2 pages including figures, tables, acknowledgements and references | No mandatory pre-conference full paper

Deadline: 15 March 2027

CONFIRMED KEYNOTE SPEAKERS

- Ebrahim Karimi-Sibaki
Montanuniversität Leoben, Austria
- Abdellah Kharicha
Montanuniversität Leoben, Austria
- Andrew Kao
University of Greenwich, United Kingdom
- Tianshu Liu
Western Michigan University, USA
- Egbert Baake
Leibniz University Hannover, Germany
- Jānis Virbulis + Kaspars Dadzis - joint keynote
University of Latvia, Latvia / Leibniz University Hannover, Germany

SCIENTIFIC COMMITTEE

Mihails Birjukovs - Conference Chair
University of Latvia, Latvia

Egbert Baake
Leibniz University Hannover, Germany

Jānis Bajārs
University of Latvia, Latvia

Valdis Bojarevičs
University of Greenwich, United Kingdom

Kaspars Dadzis
Leibniz University Hannover, Germany

Paolo Di Barba
University of Pavia, Italy

Fabrizio Dughiero
University of Padua, Italy

Sven Eckert
Helmholtz-Zentrum Dresden-Rossendorf, Germany

Michele Forzan
University of Padua, Italy

Andris Jakovičs
University of Latvia, Latvia

Imants Kaldre
University of Latvia, Latvia

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University of Greenwich, United Kingdom

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University of Latvia, Latvia

Hideki Murakawa
Kobe University, Japan

Koulis Pericleous
University of Greenwich, United Kingdom

Uldis Strautiņš
University of Latvia, Latvia

Jānis Virbulis
University of Latvia, Latvia

ORGANIZING COMMITTEE

Mihails Birjukovs - Conference Chair
Uldis Strautiņš

Andris Jakovičs
Inese Suija - Conference Secretary

Imants Kaldre

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