

## Scientific Committee

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## General Chair

**Uwe Reisgen**  
RWTH Aachen University, Welding and Joining Institute  
(ISF), Germany

## Co-Chairs

**Dietmar Drummer**  
University of Erlangen-Nürnberg, Institute for Polymer  
Technology (LKT), Germany

**Holger Marschall**  
Technical University of Darmstadt, Mathematical  
Modeling and Analysis (MMA), Germany

## Office

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## Social Event

An evening reception will take place on May 16, 2023.  
Participation is included in the conference fee, registration  
is required. Further information will be provided on the  
website.

## Venue

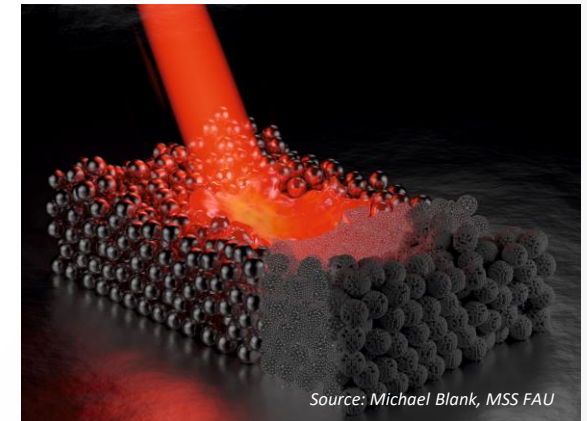
RWTH Aachen University – SuperC  
Templergraben 57  
52062 Aachen, Germany



# EMPOrIA 2023

Enhanced Material and Part  
Optimization and Process  
Intensification

International Joint Conference



Source: Michael Blank, MSS FAU

Aachen, May 16-17, 2023  
[www.emporia2023.de](http://www.emporia2023.de)

# EMPOria 2023

## Conference Scope

Enhanced Material and Part Optimization and Process Intensification – **EMPOria** is an International Joint Conference of and organized by SFB1120 Aachen, SFB814 Erlangen and CCE Darmstadt.

**EMPOria** is the perfect platform for efficient knowledge transfer in the field of materials processing and their applications. The conference is devoted to scientific presentations on the latest research results. Following the common code of good scientific practice the presentations shall be complete, comprehensible, and verifiable. All contributions will undergo a review process by the Scientific Committee.

**EMPOria** focuses on the latest developments as well as future trends in the field of materials processing. The conference topics address anyone who is interested in the potential of manufacturing in theory and application. The aim is to bring together international experts from research and industry in order to match scientific advances and economic needs for mutual benefit.

We invite you to join **EMPOria** and be a part of our international community sharing ideas in inspiring talks and discussions.

Aachen, September 2022

Uwe Reisgen  
(General Chair **EMPOria**)

## Conference Topics

- Welding/Brazing/Cutting/Coating
- Casting/Molding
- Additive Manufacturing
- Polymers and Metals
- Functional Materials
- Multiphase Flows
- Structural Mechanics
- Computational Rheology

## Invited Talks

Dierk Raabe, *MPI Düsseldorf*

Andreas Wank, *GTV Verschleißschutz GmbH*

David Bourell, *University of Texas at Austin*

Paul Osswald, *BMW AG*

Philip Cardiff, *University College Dublin*

## Fees

### “Early Bird” registration (March 31, 2023):

	<i>excl. VAT</i>	<i>incl. VAT</i>
Full participation	193,28 €	230,00 €
One day participation	126,05 €	150,00 €

### Registration standart and on site:

	<i>excl. VAT</i>	<i>incl. VAT</i>
Full participation	253,29 €	280,00 €
One day participation	151,26 €	180,00 €

*Included are the proceedings and the social event. Online registration is possible until May 15, 2023.*

## Submission of Contributions

### Abstract Submission

**November 20, 2022 UTC +01:00 Berlin 23:59**

Upload via [www.emporia2023.de](http://www.emporia2023.de)

1. Length: up to 150 words
2. Language: English
3. Use ConfTool

Include following Information:

1. Author(s)
2. Full address of correspondence
3. Title of paper
4. Keywords (including one conference topic)

*All submitted abstracts are reviewed by the Scientific Committee. All abstracts are published in the conference proceedings.*

### Manuscript Submission

Upload via [www.emporia2023.de](http://www.emporia2023.de)

1. Length: 2-10 pages
2. Format: templates provided on website

### Deadlines for Proceedings and Special Issues

1. Conference Proceedings: March 31, 2023
2. J. of Manuf. and Mater. Process.: March 31, 2023
3. Mater. Sci. and Eng. Technol.: May 10, 2023
4. Canadian J. of Chem. Eng.: May 10, 2023

*Each author can choose whether to have their publication in a Special Issue (peer reviewed) or only in the conference proceedings. The proceedings will be published on a memory stick.*

### Acceptance Decision Note for Proceedings

**January 27, 2023**

*Accepted papers have to be presented orally.*

### Editors

**U. Reisgen**, *ISF, Aachen, Germany*

**D. Drummer**, *LKT, Erlangen, Germany*

**H. Marschall**, *MMA, Darmstadt, Germany*