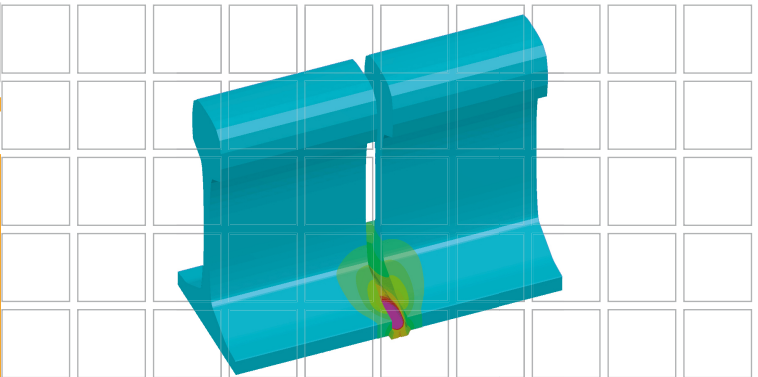


Institute of Materials Science, Joining and Forming

Univ.-Prof. Dipl.-Ing. Dr.techn. Christof Sommitsch



INVITATION & 1ST CALL FOR PAPERS

12th International Seminar
Numerical Analysis of Weldability
23 - 26 September 2018

Graz - Seggau - Austria

Scope and Relevant Topics

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With the 12th International Seminar „Numerical Analysis of Weldability“, a tradition of successful meetings will be continued. Since the first of these events in 1991, this seminar series has developed to be a world leading conference in the growing field of the development of methods for predicting the microstructure and properties of welds. It is both, of practical importance and academic interest and it supports the philosophy of computer modelling, which helps to optimise welding processes and consumables as well as the service behaviour of welded components. Leading experts in this field attend the seminar and present their latest results in the calm atmosphere of an ancient castle. The seminar is organized by the Institute of Materials Science, Joining and Forming of Graz University of Technology.

The following items (among others) of development and application of numerical analysis shall be discussed:

- Arc Welding, Melt Pool & Solidification
- Microstructural Modelling in Weld Metal and Heat Affected Zone
- Microstructure and Mechanical Properties
- Residual Stresses and Distortion
- Cracking Phenomena & Hydrogen Effects
- Solid State and Friction Stir Welding
- Laser & Electron Beam Welding
- Special Joining Processes
- Modelling Tools and Computer Programs
- Additive Manufacturing

Proceedings Book

After a peer review process, the contributions will be published as a book and an e-book containing in-depth articles similar to the previous seminars.

Previous books are available from:

Mathematical Modelling of Weld Phenomena 1 - 6

Institute for Materials 1993, 1995, 1997, 1998, 2001, 2002
Book 533, 594, 650, 695, 738, 784

Mathematical Modelling of Weld Phenomena 7 - 11

Verlag der Technischen Universität Graz, 2005, 2007, 2010,
2013 and 2016



IIW Kenneth Easterling Best Paper Award

This IIW award, which is sponsored by the Institute for Materials Science, Joining and Forming of Graz University of Technology, will be awarded for the sixth time.

It is given to the paper *“which is valued by an international committee as the best contribution made over the three years proceeding on the advancement of knowledge or practice in respect of mathematical modelling of weld phenomena”*.

General Information

Paper Submission

Abstracts should be submitted via the online abstract submission tool on our website:

www.seggau.tugraz.at

Extensive articles with a substantial review content are particularly welcome, since one of the conference aims is to establish authoritative literature which is of lasting value, and sufficiently detailed to help young scientists to the field.

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Scientific Committee

- Chairman:** Christof Sommitsch, Graz University of Technology, Austria
Vice Chairmen: Norbert Enzinger, Graz University of Technology, Austria
Peter Mayr, TU Chemnitz - IFMT, Germany
Honorary Chairman: Horst Cerjak, Graz University of Technology, Austria

Murugaiyan Amirthalingam, Indian Institute of Technology Madras, India
Sudarsanam Babu, The University of Tennessee, USA
Amitava De, Indian Institute of Technology Bombay, India
Jesper Hattel, Technical University of Denmark, Denmark
Toshihiko Koseki, The University of Tokyo, Japan
Ernst Kozeschnik, Vienna University of Technology, Austria
Tobias Loose, Ingenieurbüro Tobias Loose, Germany
Wenya Li, Northwestern Polytechnical University, P.R. China
Stephen Liu, Colorado School of Mines, USA
Patricio F. Mendez, University of Alberta, Canada
S-J. Na, Department of Mechanical Engineering, KAIST, Republic of Korea
Uwe Reisgen, RWTH Aachen University, Germany
Michael Rethmeier, Technische Universität Berlin, Germany
Ian M. Richardson, Delft University of Technology, The Netherlands
Kazuyoshi Saida, Osaka University, Japan
Gleb A. Turichin, Saint Petersburg State Polytechnical University, Russia
ChuanSong Wu, Shandong University, Jinan, China
Norman Y. Zhou, University of Waterloo, Canada

Registration Fee

Early bird (until June 1, 2018)	
Delegate:	€ 630,--
Student fee:	€ 480,--
Accompanying person:	€ 130,--
From June 2, 2018 onwards:	
Delegate:	€ 690,--
Student fee:	€ 520,--
Accompanying person:	€ 150,--

Important Dates

Registration open:	March 1, 2018
Abstract submission:	February 28, 2018
Abstract acceptance:	April 30, 2018
Full paper submission:	July 31, 2018

The student fee does not include the proceedings book „Mathematical Modelling of Weld Phenomena 12“.

Sponsors & Partners



Venue

The 12th International Seminar „Numerical Analysis of Weldability“ will take place at Schloss Seggau, the former bishop residence in the Styrian wine area 40 km south of Graz, Austria.



How to reach Graz - by Car | Train | Plane & Coach

Graz is located on the A2 and easy to get to: about 2 hours from Vienna, 4 ½ hours from Munich and 3 hours from Udine.

An eco-friendly and comfortable way to get to Graz is by train or coach. Direct train or coach connections exist between Graz and e.g. Vienna, Salzburg, Linz, Innsbruck, Klagenfurt, Munich, Stuttgart and Frankfurt.

You can currently fly direct to Graz from Frankfurt, Düsseldorf, Berlin, Stuttgart, Vienna, Palma de Mallorca and Zurich.

Seminar Organisation

Chairman: Christof Sommitsch	Responsible person: Bettina Foessler
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