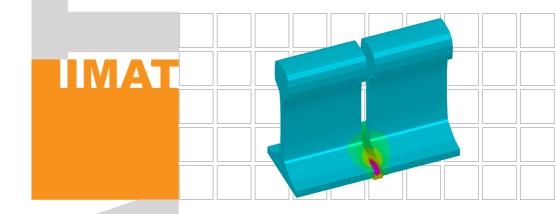


Institute of Materials Science, Joining and Forming Univ.-Prof. Dipl.-Ing. Dr.techn. Christof Sommitsch



INVITATION & 2ND CALL FOR PAPERS

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

Graz - Seggau - Austria





Scope and Relevant Topics

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



Publication

After a peer review process, the contributions will be published as a book. Furthermore, all papers can be published as open access articles.

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".

Post Conference Workshop announcement: Optimal Design & Computational Weld Mechanics (John Goldak)

Time: Wednesday, 26 September 2018 from 1:30 pm - 5:30 pm Fee: €100,-- (Post Conference Workshop places are limited so early registration is advised). The Programme of the workshop can be found on our conference website: www.seggau.tugraz.at

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.

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 Thomas Boellinghaus, Bundesanstalt für Materialforschung und -prüfung (BAM), Germany 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, DynaWeld GmbH & Co.KG., 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 *

* Details see Homepage

Early bird (until June 1, 2018)Delegate: \in 630,---Student fee: \in 480,---Accompanying person: \in 130,---Workshop (with John Goldak) \in 100,---From June 2, 2018 onwards:Delegate:Delegate: \in 690,---Student fee: \in 520,---Accompanying person: \in 150,---

Important Dates

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

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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 $\frac{1}{2}$ 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 Foessl
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