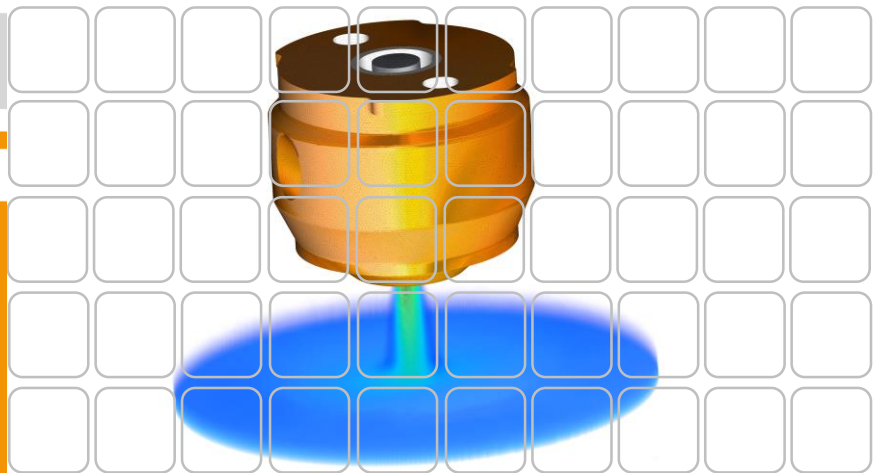


**Institute of Materials Science, Joining and Forming**  
Univ.-Prof. Dipl.-Ing. Dr.techn. Christof Sommitsch



# Invitation & 1<sup>st</sup> Call for Papers

13<sup>th</sup> International Seminar  
**Numerical Analysis of Weldability**  
**26 – 29 September 2021**

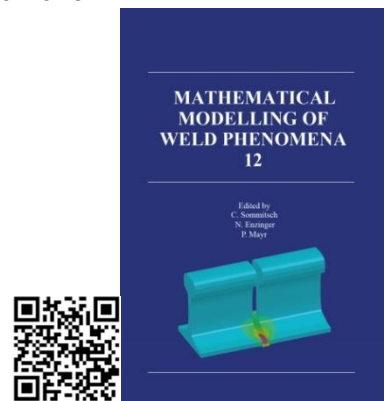
Graz – Seggau - Austria

# Scope and Relevant Topics

With the 13<sup>th</sup> 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 organised 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
- Artificial Intelligence



DOI: 10.3217/978-3-85125-615-4

## **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 1-12 can be requested from IMAT.

## **IIW Kenneth Easterling Best Paper Award**

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

It is given to the paper „*which is valued by an international committee as the best contribution made over the three years proceedings 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](http://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.

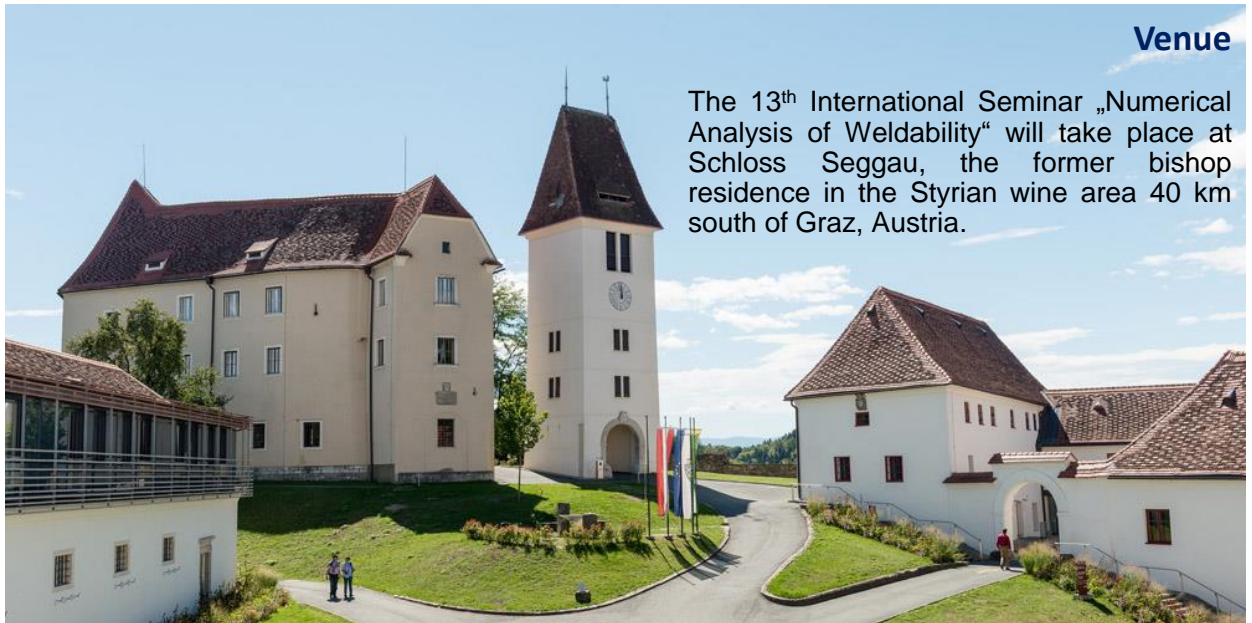
## Scientific Committee

**Chairman:** Christof Sommitsch, Graz Universtiy of Technology, Austria  
**Vice Chairman:** Norbert Enzinger, Graz Universtiy of Technology, Austria  
 Peter Mayr, Technical University of Munich, Germany  
**Honorary Chairman:** Horst Cerjak, Graz Universtiy of Technology, Austria

**Murugaiyan Amirthalingam** Indian Institute of Technology Madras, 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  
**Suck-Joo Na** Xian Jiaotong University, P.R. China  
**Uwe Reisgen** RWTH Aachen University, Germany  
**Michael Rethmeier** Technische Universität Berlin, Germany  
**Kazuyoshi Saida** Osaka University, Japan  
**Gleb A. Turichin** Saint Petersburg State Polytechnical University, Russia  
**John Turner** The University of Tennessee, USA  
**Chuan Song Wu** Shandong University, Jinan, P.R. China

Registration Fee	Important Dates
<b>Early bird (until June 1, 2021)</b> Delegate: €680,-- Student fee*: €500,-- Accompanying person: €140,-- <b>From June 2, 2021 onwards:</b> Delegate: €740,-- Student fee*: €550,-- Accompanying person: €160,--	Registration open: March 1, 2021 Abstract submission: February 28,2021 Abstract acceptance: April 30, 2021 Full paper submission: July 31, 2021 Review: Until conference Editing: December 2021

\*The student fee does not include the proceedings book „Mathematical Modelling of Weld Phenomena 13“.



The 13<sup>th</sup> 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  
Institute of Materials Science, Joining and Forming (IMAT)  
Graz University of Technology  
Kopernikusgasse 24  
8010 Graz – Austria

### Contact:

Bettina Schreiner-Foessl  
Isabella Knollseisen  
[Seggau2021@tugraz.at](mailto:Seggau2021@tugraz.at)  
Tel.: +43 316 873 1611  
Fax: +43 316 873 7187  
[www.seggau.tugraz.at](http://www.seggau.tugraz.at)  
[LinkedIn Seggau 2021](#)