



# © **THERMEC'2020**

*International Conference on*  
**PROCESSING & MANUFACTURING OF ADVANCED  
MATERIALS**

*Processing, Fabrication, Properties, Applications*

*May 31 - June 5, 2020*

**Austria Center, Vienna, Austria**



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### **Important Dates**

|                         |  |
|-------------------------|--|
| <b>October 4, 2019</b>  | Abstracts due (on-line submission)                             |
| <b>October 22, 2019</b> | Notification to authors: abstract acceptance                   |
| <b>January 22, 2020</b> | Manuscripts due (online submission)                            |
| <b>January 22, 2020</b> | Advance registration compulsory for speakers (strict due date) |
| <b>March 22, 2020</b>   | Final Program on Conference Website                            |
| <b>May 31, 2020</b>     | THERMEC'2020 in Vienna   |

# **THERMEC'2020**

*International Conference on*

## **PROCESSING & MANUFACTURING OF ADVANCED MATERIALS**

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**THERMEC'2020** is the eleventh international conference on the advanced materials series built upon the proven concept and continues the tradition of its ten predecessors: Japan (1988), Australia (1997), USA (2000), Spain (2003), Vancouver-Canada (2006), Berlin-Germany (2009), Quebec City-Canada (2011), Las Vegas-USA (2013), Graz-Austria (2016) and the last THERMEC (2018) in Paris, France.

THERMEC conference provides a forum that connects professionals (engineers, technologists, researchers) working in industry, academia and government research labs in various countries in Europe, USA, Canada, Japan, Korea, PR China, India, Brazil, Southeast Asia and Russia and allows them to present their research findings in the overall field of science and technology of processing, fabrication and manufacturing of advanced materials.

### **Scope**

The Conference will cover all aspects of processing, fabrication, structure/property evaluation and applications of both ferrous and non-ferrous materials, composites including biomaterials, high temperature materials, fuel cells/hydrogen storage technologies, batteries, super capacitors, thermoelectric materials, nanomaterials for energy and structural applications, aerospace structural metallic materials, bulk metallic glasses, UFGM, TMP of fission materials (fuel cladding, structural), high entropy alloys, materials & technologies in fusion reactors, additive manufacturing, smart/intelligent materials, modeling & simulation, welding/Joining- FSW-P, interfaces/Grain boundaries & neutron scattering /X rays studies and materials performance of advanced materials.

Oral and poster presentations dealing with the range of topics listed in this circular will be included in the conference program. In addition to the contributed presentations, the conference committee has invited eminent internationally known researchers in key areas of advanced materials processing/manufacturing from various countries to deliver state-of-the-art Plenary/Keynote lectures at THERMEC'2020.

### **Venue**

THERMEC'2020 will be held at the AUSTRIA CENTER VIENNA ([www.acv.at](http://www.acv.at)) situated along the enchanting Danube river in Vienna not far from the center of this beautiful city.

**Abstracts: on line submission by October 4, 2019**

The instructions for the abstract submission are given on the conference website <http://thermec2020.tugraz.at>. You will be guided through the step-by-step procedure to submit your abstracts successfully. Kindly submit your abstracts online ONLY before October 4, 2019. Please contact us at [secretary2020thermec@tugraz.at](mailto:secretary2020thermec@tugraz.at) or [thermec2020@tugraz.at](mailto:thermec2020@tugraz.at) in case you have any difficulty submitting your abstract ON LINE.

**TOPICS & COORDINATORS:**

| Topics  | Co-ordinators  |
|---|--|
| Additive Manufacturing  | Juergen Stampfl, Takayoshi Nakano, Peter Mayr<br>Olaf Andersen, Wei Liu, Aude Simar, Kee Ahn Lee   |
| Advanced Materials & Surface Treatments for Bioengineering Applications   | Thierry Gloriant, Mitsuo Niinomi, Paolo Falcano,<br>Diego Mantovani, Guangyin Yuan   |
| Advanced Protective Coatings/Surface Engineering & Plasma Processing of Materials (Metallic, non-Metallic, Oxidation Resistant, Thermal Barrier, Refractory, Composites & Polymer Coatings) | Paul Mayrhofer, Yuichi Setsuhara, Michael Tatoulian,<br>Lidong Sun, Ho Won Jang, Veronique Vitry,<br>Hongbo Guo  |
| Advanced Steels (HSLA/AHSS/ IF/TRIP/HNS/Stainless) & TMP Microalloyed Steels:<br>(Prof. Setsuo Takaki Honor Symposium)  | Yoshitaka Adachi, Toshihiro Tsuchiyama, Dong Woo Suh,<br>Wenqua Cao, Ronald Schnitzer, Philippe Maugis,<br>Ulrich Krupp, Beatrix Lopez, Christian Klinkenberg,<br>Andrea Di Schino, Yun Peng |
| Al Alloys   | Stefan Pogatscher, Knut Marthinsen, Kenji Matsuda,<br>Zhihong Jia, Hyoung Wook Kim   |
| Biomimetic Materials, Nanostructured Biomaterials, Medical Devices & Regenerative Medicine  | Takao Hanawa, Gabriele Candiani, Ke Yang,<br>Seung-Kyun Kang, Christele Combes, Yufeng Zheng   |
| Cold Spraying & Thermal Spraying Processes  | Kazuhiro Ogawa, Christian Widener, Yuji Ichikawa,<br>Thomas Klassen, Changhee Lee, Changjiu Li,<br>Mario Guagliano   |
| Composites (MMC, CMC) /Nanocomposites/Syntactic & Foams   | Jean – François Silvain, Elisabetta Gariboldi,<br>Hansang Kwon, Guohua Fan, Michal Basista,<br>Gen Sasaki  |
| Fuel Cells, Hydrogen Storage Technologies, Batteries, Super capacitors & Thermoelectric Materials   | Maria Di Vona, Ludgar Blum, Caroline Richard,<br>Yoshisugu Kojima, Philippe Knauth   |
| High & Ultra High Temperature Materials (Intermetallics, Super alloys & Refractory Metals)  | Haruyuki Inui, Christof Sommitsch, Yizhou Zhou,<br>Hyun Uk Hong, Martin Stockinger   |
| High Entropy Alloys & Related Materials   | An-Chou Yeh, Martin Heilmaier, Stephane Gorsse,<br>Hideyuki Murakami, B.S. Murty, Hyoung Seop Kim,<br>Raj Banerjee   |
| Integrated Computational Grain Boundary Engineering (ICGBE)   | Vsevolod Razumovskiy, Pavel Lejcek, Chad Sinclair,<br>Wilfried Wunderlich, Lorenz Romanar,<br>Christopher Schuh  |
| Interfaces / Grain Boundaries, & Structural Characterization Techniques   | Dmitri Molodov, Seiichi Miyazaki, Douglas Medlin,<br>Olivier Hardouin-Duparc, Sadahiro Tsurekawa   |
| LPSO/MFS Material: Microstructure & Kink Strengthening  | Yoshihito Kawamura, Kwang Seon Shin, Eiji Abe,<br>Xiaohong Shao, Alexei Vinogradov, Kristian Mathis  |
| Materials & Technologies in Fusion Reactors   | Francesco Romanelli, Stephen Zinkle, Bong Sang Lee<br>Christian Linsmeier, Guangnan Luo, Takeo Muroga,   |
| Materials Performance/Functional & Structural Properties (Mechanical Behaviour, Damage, Texture/Anisotropy, Fatigue, Fracture, Environmentally Assisted Fracture, Failure Analysis &        | Roberto Montanari, Goroh Itoh, Werner Skrotzki<br>Fumiyoshi Minami; Rajasekhara Shabadi<br>Rongshan Qin, Jilt Sietsma, Claude Esling   |
| Applications of Neutrons in Engineering   | Michael Hofmann, Weimin Gan, Yudong Zhang  |
| Solid State Processing of Materials: Innovative Manufacturing Process   | Jorge Dos Santos, Benjamin Klusemann, Glenn Grant  |
| Materials Under Extreme Environments & Characterization   | Sven Vogel, Akinori Hoshikawa, Kyle James Ramos,<br>Masashi Hasegawa, Eda A. Gungor  |
| Metallic Glasses/ Bulk Metallic Amorphous Materials (Prof Akihisa Inoue Honor Symposium)  | Hidemi Kato, Mariana Calin, Junji Saida, Zhaoping Lu,<br>Eun Soo Park, Juergen Eckert  |
| Mg Alloys   | Karl U. Kainer, Norbert Hort, Shihoon Choi Liming Peng   |

|  |   |
|--|---|
| Modelling & Simulation   | Frank Montheillet, Bernhard Sonderegger, Byeong Joo Lee, Ke Huang, Charles-Andre Gandin, Xingqiu Chen |
| Nanomaterials for Structural & Energy Applications   | Mineo Hiramatsu, Patrick Da Costa, Lei Lu, Claude Estournes   |
| Neutron Scattering & X-Ray Studies of Advanced Materials                                   | Klaus D. Liss, Shinji Kohara, Yandong Wang, Andreas Stark   |
| Smart/Intelligent Materials & Processes  | Yoko Yamabe- Mitarai, Jean- Marc Raulot, Hisashi Serizawa, Loredana Santo, Hideki Hosoda              |
| Nano/Micro Materials and Technologies for Medicine and Health Care Applications            | Mariolina Richetta, Sengo Kobayashi, Young Keun Kim, Andreas Foitzik, Enrico Staderini                |
| Thermomechanical Treatment of Reactor Materials (Fuel & Cladding)                          | Peter Hosemann, Yasuyoshi Nagai, Bong Sang Lee, Peng Dou, Sven Vogel                                  |
| Ti Alloys/Aerospace Structural Metallic Materials  | Cecilia Poletti, Jong Taek Yeom, Sergio Amancio, Yulin Hao, Masahiko Ikeda                            |
| Ultra Fine Grained Materials   | Megumi Kawasaki, Terence G. Langdon, Guilin Wu, Kei Ameyama, Reinhard Pippan                          |
| Welding & Joining of Advanced and Specialty Materials/Friction Stir Welding and Processing | Kazuyoshi Saida, Joel Alexis, Norbert Enzinger, Haiyan Zhao, Namhyun Kang, Zongyi Ma                  |

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### Co-operating Organizations :

- Austrian Society for Metallurgy & Materials (ASMET), Austria
- International Federation for Heat Treatment and Surface Engineering (IFHTSE)
- Société Française de Métallurgie et Matériaux (SF2M), France
- The Iron & Steel Institute of Japan (ISIJ), Japan
- The Japan Institute of Light Metals (JILM), Japan
- The Society of Materials Science, Japan (JSMS), Japan
- Indian Institute of Metals (IIM), India
- The Korean Institute of Metals & Materials (KIMM), Korea
- Metallurgy & Materials Society (MetSoc of CIM), Canada
- Deutsche Gesellschaft für Materialkunde (DGM), Germany
- Bond voor Materialenkennis, The Netherlands
- Associazione Italiana di Metallurgia (AIM), Italy
- Associação Brasileira de Metalurgia, Materiais e

- The Japan Society for Technology for Plasticity (JSTP), Japan

### **Distinguished Plenary Speaker:**

Professor T.G. Langdon: University of Southampton/University of Southern California USA

### **Keynote Speakers:**

|                                    |                                 |                                  |
|------------------------------------|---------------------------------|----------------------------------|
| Eiji Abe, Japan                    | Shinji Kohara, Japan            | Jose M. Rodriguez-Ibabe, Spain   |
| Yoshitaka Adachi, Japan            | Ernst Kozeschnik, Austria       | Kazuyoshi Saida, Japan           |
| Sergio Amancio, Austria            | Ulrich Krupp, Germany           | Gen Sasaki, Japan                |
| Aldo Boccacini, Germany            | Chong Soo Lee, Korea            | Oleg Senkov, USA                 |
| Michal Basista, Poland             | Terence G. Langdon, USA         | Hisashi Serizawa, Japan          |
| Wenquan Cao, PR China              | Antonio Lanzotti, Italy         | Yuichi Setsuhara, Japan          |
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Graz University of Technology

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## Local Organizers

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Prof. Cecilia Poletti  
Program Chair  
TU Graz, Austria

## Student Participation & Student Grants :

Students are encouraged to submit abstracts for inclusion in poster/oral sessions at THERMEC'2020. The THERMEC committee is hoping to offer grants to selected students, expected to be funded by the Austrian Education/Cultural Ministry and Austrian industrial organizations. The student grants ( 20 female and 20 male) are available to the students from European countries, Japan, Korea, India, PR China, Russia, Brazil, Australia, USA and Canada to the students participating and making presentations at THERMEC'2020 in Vienna.

Please contact Prof. T. Chandra [thermec2020@tugraz.at](mailto:thermec2020@tugraz.at) for student grants after January 25, 2020. The procedure /details /conditions for grant are on the conference website [www.thermec2020.tugraz.at](http://www.thermec2020.tugraz.at)

Students can apply for a grant after their abstract has been submitted for inclusion in the program before the due date: Oct. 4, 2019. However, *only the registered students (after student has paid registration fee before January 22, 2020) will be considered for the student grants (20 female & 20 male) awarded on the first come first serve basis and on merit to deserving students. The grant is expected to cover hotel accommodation in Vienna during THERMEC2020 period including cash grant amount to the student recipient at registration desk in Vienna.*

## Supporting Organizations:

THERMEC'2020 is proudly associated with the following organizations.



## Social Program

Spouse/accompanying persons' program may be available at THERMEC 2020. Please contact us before January 28, 2020 if you are interested in it.

## Further Information

Conference Secretariat

Institute of Materials Science, Joining & Forming

Graz University of Technology (TU Graz)

Kopernikusgasse 24/I

8010 Graz, AUSTRIA

Website: [www.thermec2020.tugraz.at](http://www.thermec2020.tugraz.at)

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Welcome to Vienna, Austria!