



# ***THERMEC'2016***

*International Conference on  
PROCESSING & MANUFACTURING OF ADVANCED MATERIALS  
Processing, Fabrication, Properties, Applications*

*May 29 - June 3, 2016*

*GRAZ, AUSTRIA*



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# ***THERMEC'2016***

## ***International Conference on PROCESSING & MANUFACTURING OF ADVANCED MATERIALS Processing, Fabrication, Properties, Applications***

***May 29 - June 3, 2016***

***Graz - AUSTRIA***

THERMEC'2016 is the ninth international conference on advanced materials series built upon the proven concept and continues the tradition of its eight predecessors, Japan (1988), Australia (1997), USA (2000), Spain (2003), Vancouver, Canada (2006), Berlin, Germany (2009), Quebec City, Canada (2011) and the last in Las Vegas, USA (THERMEC'2013). This conference series provides a forum for researchers around the globe to present papers on recent advances in the overall field of science and technology of processing 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 including biomaterials and other advanced materials.

Oral and poster presentations dealing with the various conference topics listed below will be included in the conference program. In addition to the contributed papers, the conference committee will include invited papers by eminent researchers in key areas of materials science and materials processing/manufacturing. Internationally known experts from various countries will also be invited to deliver state-of-the-art plenary/keynote lectures at THERMEC'2016.

### ***Venue***

THERMEC'2016 will be held at the elegant Graz Convention Center – MESSE GRAZ. Graz is located not far from the enchanting Austrian capital Vienna and the majestic musical city of Salzburg. Graz is the 2003 European Cultural Capital, UNESCO WORLD HERITAGE SITE and one of the dynamic cities in Europe.

Please see conference website [www.thermec2016.tugraz.at](http://www.thermec2016.tugraz.at) for details.

### ***Abstracts online submission: Due date September 26, 2015***

The instructions for the preparation of formatted abstracts are given at the conference website [www.thermec2016.tugraz.at](http://www.thermec2016.tugraz.at). You will be guided through the procedure step-by-step to submit your abstract on line. If you have any problem in submitting your abstract online, please contact the secretariat at [thermec2016@tugraz.at](mailto:thermec2016@tugraz.at).

### ***Important Dates***

<b>September 26, 2015</b>	Abstracts due
<b>October 26, 2015</b>	Notification to authors of abstract acceptance
<b>January 26, 2016</b>	Manuscripts due (strict due date)
<b>January 26, 2016</b>	Advanced registration for speakers (strict due date)
<b>February 26, 2016</b>	Final program on website
<b>May 29, 2016</b>	THERMEC'2016 in Graz

## Topics & Coordinators

<b>Al Alloys</b>	K. Marthinsen, C. Poletti, A. Deschamps, Qing Liu, Kenji Matsuda, Hiromi Nagaumi
<b>Mg Alloys</b>	K. U. Kainer, N. Hort, Kwang Seon Shin, C. Ravindran, Shinji Ando
<b>Ti Alloys/Aerospace Structural Metallic Materials</b>	F. Montheillet, S. Van der Zwaag, Masahiko Ikeda, Rui Yang, Chong Soo Lee, P. Wanjara
<b>LPSO Structure &amp; its Related Materials</b>	Yoshihito Kawamura, A. Vinogradov, Eiji Abe
<b>Advanced Steels (HSLA/IF/TRIP/Stainless/HNS)</b>	Setsuo Takaki, R. Petrov, J. M. Rodriguez-Ibabe, D. Ponge, Sung Joon Kim, Yun Peng, E. J. Palmiere
<b>TMP- Microalloyed Steels</b>	Tadashi Furuhashi, S. Godet, F. Roters, M. Militzer, J. M. Cabrera, D. Matlock
<b>High &amp; Ultra High Temp. Materials</b> (Intermetallics, Superalloys, Refractory Metals)	C. Sommitsch, Haruyuki Inui, M. Heilmaier, A. Jacques, J. Merker, Tian Sugui
<b>Advanced Materials in Biomedical &amp; Bioengineering Applications</b>	D. Mantovani, Mitsuo Niinomi, A. Carrado, Yasuharu Ohgoe
<b>Biomimetic Materials, Nanostructured Biomaterials &amp; Biological Applications</b>	B. Nebe, M. Tatoulian, Takayoshi Nakano, R. Narayan, Chikara Ohtsuki, T. Gloriant
<b>Engineering Technologies for Medicine</b>	M. Richetta, A. Foitzik, E. A. Staderini
<b>Surface Engineering/Advanced Protective Coatings</b> (Metallic/Non-Metallic/Oxidation Resistant/Thermal Barrier/Refractory/Composites & Polymer Coatings ) (Prof. J. T. M. De Hosson Symposium)	M. Jeandin, P. Mayrhofer, V. Ocelik, Masakazu Okazaki, Hideyuki Murakami, Lidong Sun
<b>Composites (MMC, CMC/Nanocomposites/Syntactic &amp; Foams)</b>	R. Taillard, Gen Sasaki, Soon H. Hong, Lin Geng, Goroh Itoh, Yuyuan Zhao
<b>Interfaces, Grain Boundaries &amp; Structural Characterization Techniques</b>	D. A. Molodov, Sadahiro Tsurekawa, W. Kleemann, Xiuliang Ma, Jianghua Chen
<b>Fuel Cells &amp; Hydrogen Storage Technologies, Batteries, Supercapacitors &amp; Thermoelectric Materials</b>	M. L. Di Vona, P. Knauth, Shin - ichi Orimo, M. Casciola, Y. Kojima
<b>Additive Manufacturing</b>	J. Y. Hascoet, J. Stampfl, C. Leyens, Leijun Li, P. Nash
<b>Materials Under Extreme Conditions</b> (Radiation, High Strain Rate, Temp. Pressure & Combinations)	B. Winkler, S. Vogel, Yusheng Zhao, Y. Tomota, Xun-Li Wang, Wei Liu, Li Zhang, Masashi Hasegawa
<b>Metallic Glasses/ Bulk Metallic Amorphous Materials</b>	Junji Saida, J. Eckert, Zhaoping Lu, Eun Soo Park
<b>Nanomaterials for Structural &amp; Energy Applications</b>	C. Estournes, L. L. Shaw, Do Kyung Kim, M. Hiramatsu, Lei Lu, Kei Ameyama
<b>Ultra Fine – Grained Materials</b>	R. Z. Valiev, Yi Huang, Nobuhiro Tsuji, Hyoung Seop Kim, T. G. Langdon
<b>Smart/Intelligent Materials &amp; Processes</b>	Kiyoshi Mizuuchi, Yoko Yamabe-Mitani, Mikio Ito, J. Kopecek, Yudong Zhang, V. Brailovski
<b>Neutron Scattering &amp; X-Ray Studies of Advanced Materials</b>	K. D. Liss, S. Harjo, R. Barabash, Kai Chen, Yandong Wang
<b>Modelling &amp; Simulation</b> (Prof. W. Bleck Symposium)	E. Kozeschnik, B. Sonderegger, Rongshen Qin, R. Loge
<b>Materials Performance</b> (Mechanical Behaviour, Damage, Fatigue, Fracture, Environmentally Assisted Fracture, Failure Analysis)	R. Montanari, Fumiyoshi Minami, R. Srinivasan, Jun Sun, J. Sietsma, E. Hug, Xiao-Wu Li
<b>Texture of Materials</b>	W. Skrotzki, L. Toth, Hirofumi Inoue, S. Suwas, C. Esling, Liang Zuo, No Jin Park
<b>Welding /Joining of Advanced Materials &amp; FSW/P</b>	N. Enzinger, Akio Hirose, U. Reisgen, P. Mayr, Jicai Feng, Hidetoshi Fujii, R. Shabadi

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Guangyin Yuan, China  
Li Zhang, PR China  
Yudong Zhang, France  
Yusheng Zhao, USA  
Yuyuan Zhao, UK  
Liang Zuo, PR China

## Plenary Speakers

Prof. Harold W. Kroto, 1996 Nobel Prize in Chemistry: Florida State University, USA

Prof. Eduard Arzt, Director Leibnitz Advanced Materials Center: Saarland University, Germany

## Keynote Speakers

M. N. Avettand-Fenoel, France	J. J. Jonas, Canada	C. Poletti, Austria
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## Co-operating Organizations

- The Minerals, Metals, Materials Society (TMS), USA
- ASM International, USA
- Austrian Society for Metallurgy & Materials (ASMET), Austria
- The Iron & Steel Institute, Japan
- The Japan Institute of Light Metals, Japan
- The Society of Materials Science of Japan, Japan
- The Japan Society for Technology for Plasticity, Japan
- The Korean Institute of Metals & Materials (KIMM), Korea
- Deutsche Gesellschaft für Materialkunde (DGM), Germany
- Chinese Society for Metals (CSM), PR China
- Societe Francaise de Metallurgique et Materieaux (SF2M), France
- Associazione Italiana di Metallurgia (AIM), Italy
- Indian Institute of Metals, India
- Bond voor Materialenkennis, The Netherlands
- Associaacao Brasileira de Metallurgia e Materiais, Brazil
- The Metallurgy & Materials Society of CIM, Canada

## Supporting Organizations

THERMEC'2016 is proudly associated with the following organizations:



BRITISH AIRWAYS:

British Airways is the official convention airline. It is one of the finest airlines in the world.



## Social Program

Exciting spouse/accompanying program will be planned for four days at THERMEC 2016.

Graz is located on the verge of the Austrian alps and not far from famous musical city of Salzburg and enchanting capital Vienna besides breath taking countryside in lower Styria.

Some of the highlights of spouse/accompanying program will involve a visit to Vienna, castles, lakes, and an enchanting place near Graz where a world famous chocolate factory is located.

## Welcome to Graz!

2003 European Cultural Capital, UNESCO World Heritage Site and an insider tip for connoisseurs – those who visit Graz love the Mediterranean flair, the world heritage of the picturesque historic quarter, spacious parks and architectural highlights. Graz is the capital to enjoy the Styrian specialties. Its world-famous wines and the dark pumpkin seed oil are the amassadors of this culinary identity. The Mediterranean flair is omnipresent: in the charming pub gardens, the quaint farmer's markets, the narrow alleys, the lively squares and the dreamy courtyards.

For further information see [www.graztourismus.at](http://www.graztourismus.at).

## Local Conference Organizers

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The Minerals, Metals & Materials Society

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## Student Participation / Grants

The THERMEC'2016 committee intends to offer 30 to 40 student grants to male and female students. Conditions to apply for student grant can be obtained from Prof. T. Chandra ([thermec2016@tugraz.at](mailto:thermec2016@tugraz.at)) only after January 7, 2016. Students applying for a grant must submit abstract and register by due date before applying for a grant.

Please note that only registered students (those who have paid THERMEC student registration fee by January 26, 2016, due date) will be considered for THERMEC student grant by the student grant chair Prof. T. Chandra.

## Further Information

Contact conference secretariat about abstract submission, sponsorship, exhibition booth, conference registration, hotel accommodation, spouse program:

Conference secretariat:

Isabella Scheiber

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