



THERMEC'2025

International Conference on

PROCESSING & MANUFACTURING OF ADVANCED MATERIALS

Processing, Fabrication, Properties, Applications

June 30 - July 4, 2025

University of Tours, France



Chateau Villandry, Copyright ADT Touraine Jean-Christophe Coutant (2021)

Important Dates

November 20, 2024	Abstracts due (on-line submission)
December 14, 2024	Notification to authors: abstract acceptance
July 04, 2025	Manuscripts due (online submission)
February 7, 2025	Advanced registration compulsory for speakers (strict due date)
May 31, 2025	Final program on conference website
June 30, 2025	THERMEC'2025 in Tours-France

THERMEC'2025 is the thirteenth international conference on the advanced materials series built upon the proven concept and continues the tradition of its eleven predecessors: Japan (1988), Australia (1997), USA (2000), Spain (2003), Canada (2006), Germany (2009), Canada (2011), USA (2013), Austria (2016), France (2018), Virtual Conference (2021) and Austria (2023).

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, Republic of 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-ray 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'2025.

Venue

THERMEC'2025 will be held at the campus of Faculty of Science and Technology of University of Tours, Tours. The University of Tours was established as part of efforts to modernize and democratize higher education in France after the events of 1968. The university was created by grouping together a number of older educational institutions. The University of Tours is distinguished in the field of materials for energy technology research with the Microelectronic at CERTEM in collaboration with ST Microelectronics since 1996. University is also the home for the prestigious school of engineering called Ecole Polytechnique de Université de Tours.

Tours, located in the heart of the Loire Valley in central France, serves as a vital hub for tourism and culture. This historic city is renowned for its proximity to numerous châteaux, including the magnificent Château de Villandry and Château d'Amboise. Tours is often celebrated as the gateway to the UNESCO World Heritage-listed Loire Valley, which boasts over 300 châteaux, illustrating the region's rich architectural heritage and historical significance. The city not only offers a vibrant cultural scene with art galleries and museums but also delights visitors with its gastronomy and wine, drawing from the fertile lands and vineyards surrounding the Loire River. With its favourable climate and extensive tourist infrastructure, Tours attracts millions of visitors each year, making it a key destination for those exploring the beauty and history of France.

In July, Tours enjoys warm summer weather characterized by average maximum temperatures around 22°C. The climate is pleasantly moderated by breezes from the Atlantic, making it comfortable for outdoor activities. With relatively low rainfall and plenty of sunshine, July is an ideal time to explore the city's historic sites and surrounding vineyards.

The up-to-date list of TOPICS that will be covered at this conference can be found here : <https://thermec2025.sciencesconf.org>.

Abstracts: Submission by November 20, 2024

The instructions for the abstract submission are given on the conference website. You will be guided through the step-by-step procedure to submit your abstracts successfully. Kindly submit your abstracts online ONLY before November 20, 2024. Please contact us at secretariat-thermec2025@univ-lille.fr in case you have any difficulty submitting your abstract ONLINE.

TOPICS & COORDINATORS:

Topics	Coordinators
Additive Manufacturing	Takayoshi Nakano, Andersen Olaf, Peter Mayr, Wei Liu, Aude Simar
Advanced Materials & Surface Treatments for Bioengineering Applications	Thierry Gloriant, Guy Daniel Ladam, Nam Tae-hyun, Diego Mantovani, Guangyin Yuan, Haein Yim
Advanced Protective Coatings/Surface Engineering & Plasma Processing of Materials (Metallic, non-Metallic, Oxidation Resistant, Thermal Barrier, Refractory, Composites & Polymer Coatings)	Yuichi Setsuhara, Woonbong Hwang, Chang-Jiu K. Li, Rongshan Qin, Giuseppina Raffaini, Veronique Vitry
Advanced Steels (HSLA/AHSS/IF/TRIP/HNS/Stainless) & TMP and Microalloyed Steels (Prof. Y.Adachi Honor Symposium)	Michel Perez, Yoshitaka Adachi, Toshihiro Tsuchiyama, Dong Woo Suh, Wenquan Cao, Philippe Maugis, Ulrich Krupp, Yun Peng
Al Alloys	Shoichi Hirosawa, Stefan Pogatscher, Jae-Pil Jung, Knut Marthinsen, Kenji Matsuda, Zhihong Jia, Hyoung Wook Kim
Biomimetic Materials, Nanostructured Biomaterials, Medical Devices & Regenerative Medicine	Yasuhiko Tabata, Takao Hanawa, Regine Willumeit-Roemer, Gabriele Candiani, Seung-Kyun Kang, G.Xuen
Cold Spraying & Thermal Spraying Processes	Kazuhiro Ogawa, Thomas Klassen, Chang-Jiu Li
Composites (MMC, CMC) /Nanocomposites/Syntactic & Foams	Jean-François Silvain, Hyunjoo Choi, Hansang Kwon, Gang Ji, Guohua Fan, Michal Basista, Gen Sasaki, Weijie Lyu
Fuel Cells, Hydrogen Storage Technologies, Batteries, Super capacitors & Thermoelectric Materials	Bun Tsuchiya, Kyung Yoon Chung, Maria Di Vona, Caroline Richard, Yoshisugu Kojima, Isabella Nicotera, Philippe Knauth
High & Ultra High Temperature Materials (Prof. Haruyuki Honor Symposium)	Kyosuke Kishida, Sylvain Dubois, Manja Krueger, Howard Stone, Jin Yoo Suh, Xiping Guo
High Entropy Alloys & Related Materials (Prof. Brian Cantor Honor Symposium)	An-Chou Yeh, Hideyuki Murakami, Isaac Chang, Ki Buem Kim, Biswas K, Mike Reece, Raj Banerjee, Gorsse Stephane
Integrated Computational Grain Boundary Engineering (ICGBE)	Lorenz Romaner, Vsevolod Razumovskiy, Pavel Lejcek, Wunderlich Wilfried
Interfaces / Grain Boundaries, & Structural Characterization Techniques	Gerhard Wilde, Dmitri Molodov, Seiichi Miyazaki, Ho Jin Ryu, Sadahiro Tsurekawa
LPSO/MFS Materials: Microstructure & Kink Strengthening	Yoshihito Kawamura, Alexei Vinogradov, Eiji Abe, Shao Xiao-Hong
Materials & Technologies in Fusion Reactors	Francesco Romanelli, Steven Zinkle, Bong Sang Lee, Christian Linsmeier, Takeo Muroga, Peter Hosmann
Materials Performance/Functional & Structural Properties (Mechanical Behaviour, Damage, Texture/Anisotropy, Fatigue, Fracture, Environmentally Assisted Fracture, Failure Analysis)	Roberto Montanari, Goroh Itoh, Werner Skrotzki, Satyam Suwas, Yoji Mine, Mariam Dumont
Applications of Neutrons in Engineering	Michael Hofmann, Zhang Yudong, Weimin Gan
Solid State Processing of Materials: Innovative Manufacturing Process	Benjamin Klusemann, Avettand Fenoel, Jorge Dos Santos, Grant Glenn
Materials Under Extreme Environments & Characterization	Sven Vogel, In-Suk Choi, Kyle James Ramos, Masashi Hasegawa
Metallic Glasses/Bulk Metallic Amorphous Materials (Prof. Lindsay Greer Honor Symposium)	Mariana Calin, Junji Saida, Annett Gibert, Eun Soo Park, Jürgen Eckert, Juntao Huo
Mg Alloys (Prof. Y.Kawamura Honor Symposium)	Karl Kainer, Eiji Abe, Sung Soo Park, Norbert Hort, Shihoon Choi, Peng Liming, Yunchang Xin, Raj Shabadi

Modelling & Simulation	Yann Le Bouar, Joerg Neugebauer, Yoshiteru Aoyagi, Sung Wu Han, Charles-Andre Gandin, Bernhard Sonderegger, Byeong Joo Lee, Frank Niessen, Xingqiu Chen, Yoon Suk Choi
Nanomaterials for Structural & Energy Applications	Makoto Kambara, Mineo Hiramatsu, Lei Lu, Claude Estournes, Seok Woo Jeon
Neutron Scattering & X-Ray Studies of Advanced Materials	Shinji Kohara, Andreas Stark, So Yeol Lee, Julien Teixeira, Enyu Guo
Smart/Intelligent Materials & Processes	Yoko Yamabe-Mitarai, Leonard Didier, Hisashi Serizawa, Loredana Santo, Hideki Hosoda
Nano/Micro Materials and Technologies for Medicine and Health Care Applications	Mariolina Richetta, Sengo Kobayashi, Andreas Foitzik, Enrico Staderini
Thermomechanical Treatment of Reactor Materials (Fuel & Cladding)	Peter Hosemann, Yasuyoshi Nagai, Bong Sang Lee, Sven Vogel
Ti Alloys/Aerospace Structural Metallic Materials	Masahiko Ikeda, Jong-Taek Yeom, Yulin Hao, Cecilia Poletti
Ultra Fine Grained Materials	Hiromi Miura, Ruslan Valiev, Megumi Kawasaki, Seung Min Jane Han, Jie Xu
Welding & Joining of Advanced and Specialty Materials/Friction Stir Welding and Processing	Akio Hirose, Joel Alexis, Norbert Enzinger, Xiaogang Wang, Namhyun Kang

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- 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
- The Japan Society for Technology for Plasticity (JSTP), Japan
- Indian Institute of Metals (IIM), India
- The Korean Institute of Metals & Materials (KIMM), Republic of 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 Mineração

Distinguished Plenary Speaker:

Professor Anne l'Huillier (to be confirmed), University of Lund - Sweden

Professor Yves Brechet (to be confirmed), College de France - France

Keynote Speakers:

Eiji Abe, Japan
Dermot Brabazon, Ireland
Yoshitaka Adachi, Japan
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Student Participation & Student Grants :

Students are encouraged to submit abstracts for inclusion in poster/oral sessions at THERMEC'2025. The THERMEC committee is hoping to offer 40 grants (20 females and 20 males) to selected students, expected to be funded by the French Education/ Cultural Ministry and French industrial organizations. For details please see the conference website, and contact Prof. Raj Shabadi after Feb 25, 2025.

Supporting Organizations:

THERMEC'2025 is proudly associated with the following organizations.



Social Program

Spouse/accompanying persons' program may be available at THERMEC'2025. Please contact us before January 28, 2025 if you are interested in it.

Further Information

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WEBSITE: <https://thermec2025.sciencesconf.org>

Email: secretariat2025thermec@univ-lille.fr

Conjointly organized by



In collaboration with

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Welcome to Tours, France!
Bienvenue a Tours!

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