INTERNATIONAL CONFERENCE ON MARTENSITIC TRANSFORMATIONS

“Martensite by Design”

July 9-14, 2017

Chicago, Illinois, USA

The next ICOMAT meeting will be hosted by the Chicago-based CHiMaD (Center for Hierarchical Materials Design) in metropolitan downtown Chicago. Located on the shores of Lake Michigan in the heart of the Great Lakes Region of North America, the city of Chicago is truly the epitome of the “melting pot” reputation of the USA. This is evidenced by a diverse array of cultural, economic, and social experiences that draw tourism, science and technology, arts, and music to its streets year-round. The “Chicago School” represents a unique tradition of innovation across many fields, notably materials, as the birthplace of Materials Science in the 1950s and Materials Design in the 1990s. With the US Materials Genome Initiative (MGI) in full swing by a White House mandate, the next ICOMAT meeting will be organized around the central theme of Martensite by Design. Symposia will include design for microstructures, properties, advanced manufacturing, and performance.

Confirmed Speakers
Charles J. Kuehmann, SpaceX/Tesla
Pedro Rivera, University of Cambridge
Wenzheng Zhang, Tsinghua University
Thomas Antretter, University of Leoben
Alexander Zhilyaev, Russian Academy of Science
Valery Levitas, Iowa State University
John Speer, Colorado School of Mines
Yuji Sutou, Tohoku University
Xiaobing Ren, NIMS
James Monroe, TAMU
Waltraud M. Kriven, University of Illinois at Urbana-Champaign
Long-Qing Chen, Penn State University
Kaushik Bhattacharya, Caltech
Alexander Roytburd, University of Maryland
Marc DeGraef, Carnegie Mellon University
Shigekazu Morito, Shimane University
Antoni Planes, University of Barcelona
Yasukazu Murakami, Kyushu University
Jan Van Humbeeck, Catholic University of Leuven
Eckhard Quandt, Christian Albrechts University, Kiel
Tom Duerig, Confluent Medical Technologies
Hanus Seiner, Czech Academy of Sciences
Ibrahim Karaman, TAMU
Annika Borgenstam, KTH Royal Institute of Technology
Dana Frankel, QuesTek Innovations LLC
George Krauss, Colorado School of Mines
Turab Lookman, Los Alamos National Lab

Important Dates
January 18th, 2017 Abstracts Accepted
Registration Opens
May 1st, 2017 Final Announcement
July 9th, 2017 Conference Opens

Abstract Topics
1. Theory & Methods for Martensite Design
2. Interactions of Phase Transformations and Plasticity
3. Quenching and Partitioning of Martensite and Other Advancements in Steels
4. Novel Shape Memory Alloys
5. Novel Functional Behaviors: Beyond Shape Memory Effect & Superelasticity
6. Martensitic Transformations in Non-Metallic Materials
7. Size Effects in Martensitic Transformations
8. Advanced Characterization of Martensite-3D & High Resolution
9. Quasimartensitic Modulations
10. Advanced Processing Techniques: Additive, Porous, and Others
11. Engineering Applications and Devices
12. MSMnet: Magnetomechanics of Magnetic Shape Memory Alloys

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Abstract Submission: www.programmaster.org/icomat2017