

ICOMAT 2017: Chicago, Illinois
Program-At-A-Glance

SUNDAY, JULY 9	
4:00PM-6:30PM	Early Registration <i>Outside Crystal Ballroom A, B, C; Hyatt Regency</i>
6:00PM-9:00PM	Evening Welcome Reception <i>Crystal Ballroom A, B, C; Hyatt Regency</i>
MONDAY, JULY 10	
7:30AM-2:00PM	Conference Registration <i>Outside Crystal Ballroom A, B, C; Hyatt Regency</i>
8:00AM-8:20AM	Welcome and Opening Remarks Prof. A. Stebner (CSM); Prof. G. Olson (NU) <i>Crystal Ballroom B, C; Hyatt Regency</i>
8:20AM-9:20AM	Plenary Talk Martensite in Computational Materials Design: An Interplanetary Opportunity <i>Dr. Charles Kuehmann, SpaceX/Tesla</i> <i>Crystal Ballroom B, C; Hyatt Regency</i>
9:20AM-10:20AM	Plenary Talk On the Development of Theoretical and Experimental Tools for Design of Martensitic Steels <i>Prof. Annika Borgenstam, KTH Royal Institute of Technology</i> <i>Crystal Ballroom B, C; Hyatt Regency</i>
10:20AM-10:40AM	COFFEE BREAK
10:40AM-12:10PM	Parallel Sessions <ul style="list-style-type: none"> • Theory & Methods for Martensite Design 1 <i>Gold Coast Room; Hyatt Regency</i> • Interactions of Phase Transformations and Plasticity 1 <i>Water Tower Toom; Hyatt Regency</i> • Displacive Transformations in Non-Metallic Materials 1 <i>Wrigley Room; Hyatt Regency</i> • Quenching & Partitioning of Martensite/Other Advancements in Steels 1 <i>Comiskey Room; Hyatt Regency</i>
12:10PM-2:00PM	LUNCH <i>Hyatt Regency; Crystal Ballroom B, C</i>
2:00PM-3:30PM	Parallel Sessions <ul style="list-style-type: none"> • Size Effects in martensitic Transformations 1 <i>Comiskey Room; Hyatt Regency</i> • Novel Shape Memory Alloys 1 <i>Water Tower Room; Hyatt Regency</i> • Engineering Applications and Devices 1 <i>Wrigley Room; Hyatt Regency</i> • Advanced Processing Techniques: Additive, Porous, and Others 1 <i>Gold Coast Room; Hyatt Regency</i>
3:30PM-4:00PM	COFFEE BREAK

4:00PM-5:30PM	<p><u>Parallel Sessions</u></p> <ul style="list-style-type: none"> • Advanced Characterization of Martensite:3D and High Res. 1 <i>Gold Coast Room; Hyatt Regency</i> • MSMnet: Magnetomechanics of Magnetic Shape Memory Alloys 1 <i>Wrigley Room; Hyatt Regency</i> • Novel Functional Behaviors: Beyond SME & Superelasticity 1 <i>Water Tower Room; Hyatt Regency</i> • Quasimartensitic Modulations 1 <i>Comiskey Room; Hyatt Regency</i>
5:30PM-7:30PM	<p>Poster Session 1 <i>Hyatt Regency; Crystal Ballroom A</i></p>
7:30PM-11:30PM	<p>“Martensite in Space” <i>Adler Planetarium (Drinks and Appetizers provided)</i></p>
TUESDAY, JULY 11	
8:00AM-8:40AM	<p>Algorithmic Discovery of Mechanisms for the Martensitic Phase Transformation <i>X. Chen, The Hong Kong University of Science and Technology</i> <i>Crystal Ballroom B; Hyatt Regency</i></p> <p>Characterization of Three Dimensional Morphologies of Martensite Blocks and Packets in Low-carbon Low-Alloy Steels <i>S. Morito, Shimane University</i> <i>Crystal Ballroom C; Hyatt Regency</i></p>
8:40AM-9:20AM	<p>Guided by Martensite <i>K. Bhattacharya, California Institute of Technology</i> <i>Crystal Ballroom B; Hyatt Regency</i></p> <p>Magnesium-based Shape Memory Alloy <i>Y. Sutou, Tohoku University</i> <i>Crystal Ballroom C; Hyatt Regency</i></p>
9:20AM-10:00AM	<p>Phase Transformations under High Pressure and large Plastic Deformations: Multiscale Theory and Interpretation of Experiments <i>V. Levitas, Iowa State University</i> <i>Crystal Ballroom B; Hyatt Regency</i></p> <p>Additive Manufacturing of Shape Memory Materials <i>J. Van Humbeeck, Catholic University Leuven</i> <i>Crystal Ballroom C; Hyatt Regency</i></p>
10:00AM-10:20AM	COFFEE BREAK
10:20AM-12:10PM	<p><u>Parallel Sessions</u></p> <ul style="list-style-type: none"> • Theory & Methods for Martensite Design 2 <i>Gold Coast Room; Hyatt Regency</i> • Interactions of Phase Transformations and Plasticity 2 <i>Water Tower Room; Hyatt Regency</i> • Advanced Characterization of Martensite:3D and High Res. 2 <i>Comiskey Room; Hyatt Regency</i> • Novel Functional Behaviors: Beyond SME & Superelasticity 2 <i>Wrigley Room; Hyatt Regency</i>
12:10PM-2:00PM	<p>LUNCH <i>Hyatt Regency; Crystal Ballroom B, C</i></p>

2:00PM-3:30PM	<u>Parallel Sessions</u> <ul style="list-style-type: none"> • Quasimartensitic Modulations 2 <i>Gold Coast Room; Hyatt Regency</i> • Novel Shape Memory Alloys 2 <i>Water Tower Room; Hyatt Regency</i> • Advanced Characterization of Martensite:3D and High Res. 3 <i>Comiskey Room; Hyatt Regency</i> • MSMnet: Magnetomechanics of Magnetic Shape Memory Alloys 2 <i>Wrigley Room; Hyatt Regency</i>
3:30PM-4:00PM	COFFEE BREAK
4:00PM-5:30PM	<u>Parallel Sessions</u> <ul style="list-style-type: none"> • Quasimartensitic Modulations 3 <i>Gold Coast Room; Hyatt Regency</i> • Novel Shape Memory Alloys 3 <i>Water Tower Room; Hyatt Regency</i> • Quenching & Partitioning of Martensite/Other Advancements in Steels 2 <i>Comiskey Room; Hyatt Regency</i> • MSMnet: Magnetomechanics of Magnetic Shape Memory Alloys 3 <i>Wrigley Room; Hyatt Regency</i>
5:30PM-7:30PM	Poster Session 2 <i>Hyatt Regency; Crystal Ballroom A</i>
WEDNESDAY, JULY 12	
8:00AM-10:00AM	<u>Parallel Sessions</u> <ul style="list-style-type: none"> • Theory & Methods for Martensite Design 3 <i>Gold Coast Room; Hyatt Regency</i> • Interactions of Phase Transformations and Plasticity 3 <i>Water Tower Room; Hyatt Regency</i> • Displacive Transformations in Non-Metallic Materials 2 <i>Wrigley Room; Hyatt Regency</i> • Quenching & Partitioning of Martensite/Other Advancements in Steels 3 <i>Comiskey Room; Hyatt Regency</i>
10:00AM-10:20AM	COFFEE BREAK
10:20AM-12:10PM	<u>Parallel Sessions</u> <ul style="list-style-type: none"> • Theory & Methods for Martensite Design 4 <i>Gold Coast Room; Hyatt Regency</i> • Interactions of Phase Transformations and Plasticity 4 <i>Water Tower Room; Hyatt Regency</i> • Displacive Transformations in Non-Metallic Materials 3 Engineering Applications and Devices 2 <i>Wrigley Room; Hyatt Regency</i> • Novel Functional Behaviors: Beyond SME & Superelasticity 3 <i>Comiskey Room; Hyatt Regency</i>
12:10PM-Evening	Chicago Sightseeing Chicago Architecture Boat Tour (Times and Location TBD)
7:00PM-10:00PM	Board Dinner <i>Signature Room, Hancock Tower, Downtown Chicago</i>

THURSDAY, JULY 13

8:00AM-10:00AM	<p><u>Parallel Sessions</u></p> <ul style="list-style-type: none"> • Advanced Processing Techniques: Additive, Porous, and Others 2 <i>Comiskey Room; Hyatt Regency</i> • Interactions of Phase Transformations and Plasticity 5 <i>Water Tower Room; Hyatt Regency</i> • Advanced Characterization of Martensite:3D and High Res. 4 Engineering Applications and Devices 3 <i>Gold Coast Room; Hyatt Regency</i> • MSMnet: Magnetomechanics of Magnetic Shape Memory Alloys 4 <i>Wrigley Room; Hyatt Regency</i>
10:00AM-10:20AM	COFFEE BREAK
10:20AM-12:10PM	<p><u>Parallel Sessions</u></p> <ul style="list-style-type: none"> • Theory & Methods for Martensite Design 5 <i>Gold Coast Room; Hyatt Regency</i> • Interactions of Phase Transformations and Plasticity 6 <i>Water Tower Room; Hyatt Regency</i> • Advanced Processing Techniques: Additive, Porous, and Others 3 <i>Comiskey Room; Hyatt Regency</i> • Engineering Applications and Devices 4 <i>Wrigley Room; Hyatt Regency</i>
12:10PM-2:00PM	<p>LUNCH</p> <p><i>Hyatt Regency; Crystal Ballroom B, C</i></p>
2:00PM-3:30PM	<p><u>Parallel Sessions</u></p> <ul style="list-style-type: none"> • Theory & Methods for Martensite Design 6 <i>Gold Coast Room; Hyatt Regency</i> • Interactions of Phase Transformations and Plasticity 7 <i>Water Tower Room; Hyatt Regency</i> • Quasimartensitic Modulations 4 <i>Wrigley Room; Hyatt Regency</i> • Quenching & Partitioning of Martensite/Other Advancements in Steels 4 <i>Comiskey Room; Hyatt Regency</i>
3:30PM-4:00PM	COFFEE BREAK
4:00PM-5:30PM	<p><u>Parallel Sessions</u></p> <ul style="list-style-type: none"> • Advanced Processing Techniques: Additive, Porous, and Others 4 <i>Gold Coast Room; Hyatt Regency</i> • Interactions of Phase Transformations and Plasticity 8 <i>Water Tower Room; Hyatt Regency</i> • Novel Shape Memory Alloys 4 <i>Wrigley Room; Hyatt Regency</i> • Quenching & Partitioning of Martensite/Other Advancements in Steels 5 <i>Comiskey Room; Hyatt Regency</i>
5:30PM-6:00PM	Shuttles to Navy Pier from Hyatt Regency
6:00PM-10:00PM	<p>ICOMAT 2017 Banquet Dinner</p> <p><i>Navy Pier; Spirit of Chicago Lake Michigan Cruise</i></p>

FRIDAY, JULY 14

8:00AM-10:00AM	<p><u>Parallel Sessions</u></p> <ul style="list-style-type: none"> • Novel Functional Behaviors: Beyond SME & Superelasticity 4 <i>Water Tower Room; Hyatt Regency</i> • Novel Shape Memory Alloys 5 <i>Comiskey Room; Hyatt Regency</i> • Size Effects in martensitic Transformations 2 <i>Wrigley Room; Hyatt Regency</i> • Theory & Methods for Martensite Design 7 <i>Gold Coast Room; Hyatt Regency</i>
10:00AM-10:20AM	COFFEE BREAK
10:20AM-12:10PM	<p><u>Parallel Sessions</u></p> <ul style="list-style-type: none"> • Novel Functional Behaviors: Beyond SME & Superelasticity 5 <i>Water Tower Room; Hyatt Regency</i> • Novel Shape Memory Alloys 6 <i>Comiskey Room; Hyatt Regency</i> • Size Effects in martensitic Transformations 3 <i>Wrigley Room; Hyatt Regency</i> • Theory & Methods for Martensite Design 8 <i>Gold Coast Room; Hyatt Regency</i>
12:10PM-2:00PM	<p>LUNCH</p> <p><i>Hyatt Regency; Crystal Ballroom B, C</i></p>
2:00PM-3:30PM	<p><u>Parallel Sessions</u></p> <ul style="list-style-type: none"> • Interactions of Phase Transformations and Plasticity 9 <i>Water Tower Room; Hyatt Regency</i> • Novel Shape Memory Alloys 7 <i>Comiskey Room; Hyatt Regency</i> • Quasimartensitic Modulations 5 <i>Wrigley Room; Hyatt Regency</i> • Quenching & Partitioning of Martensite/Other Advancements in Steels 6 <i>Gold Coast Room; Hyatt Regency</i>
3:30PM-4:00PM	COFFEE BREAK
4:00PM-4:40PM	<p>Plenary Talk</p> <p>Martensite Fundamentals as they Pertain to the Medical Device Industry <i>Dr. Tom Duerig, Confluent Medical Technologies</i> <i>Crystal Ballroom B, C; Hyatt Regency</i></p>
4:40PM-5:20PM	<p>Plenary Talk</p> <p>Martensite in Carbon Steels:40 Years of ICOMAT, 1976 to 2017 and Beyond <i>Prof. George Krauss, Colorado School of Mines</i> <i>Crystal Ballroom B, C; Hyatt Regency</i></p>
5:20PM-5:30PM	<p>Closing Remarks</p> <p>Prof. A. Stebner (CSM) and Prof. G. Olson (NU) <i>Crystal Ballroom B, C; Hyatt Regency</i></p>