

# International Symposium on Surface Hardening of Corrosion Resistant Alloys

May 25-26, 2010 • Case Western Reserve University • Cleveland, Ohio USA

Learn the latest developments in surface hardening processes, performance and properties from international experts.

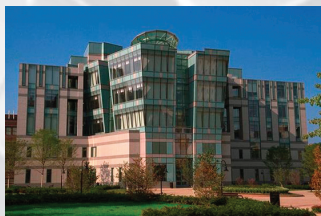


Be the first to find out about breakthroughs in this technology at the International Symposium on Surface Hardening of Corrosion Resistant Alloys.

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## CONFERENCE PROGRAM

### Tuesday, May 25

8:45 a.m.	<b>Symposium Keynote:</b> <i>Low-Temperature Gaseous Surface Hardening of Stainless Steel: The Current Status</i> <b>Marcel A.J. Somers</b> , Technical University of Denmark, Kgs. Lyngby, Denmark
9:30 a.m.	<i>The Influence of Plasma and Gas Process Parameters on a Microstructure of Low Temperature Nitrided Austenitic Stainless Steel</i> <b>Jolanta Baranowska</b> , Institute of Materials Engineering, West Pomeranian University of Technology, Szczecin, Poland
<b>10:10 a.m. • Break</b>	
10:40 a.m.	<i>Carbide Formation During Low-Temperature Carburization</i> <b>Gary M. Michal</b> , Case Western Reserve University, Cleveland, Ohio, USA
11:20 a.m.	<i>Fundamental Aspects of Structure, Development and Stability of Expanded Austenite</i> <b>Thomas L. Christensen</b> , Technical University of Denmark, Kgs. Lyngby, Denmark
<b>Noon • Lunch, Poster Session and Tabletop Displays</b>	
2:20 p.m.	<i>Interstitial Hardening: Corrosion Resistance through Enhanced Dissolution</i> <b>Farrel J. Martin</b> , Center for Corrosion Science and Engineering, U.S. Naval Research Laboratory, Washington, DC USA
3:00 p.m.	<i>Increasing Tribological Properties of Stainless Steels by Low Temperature Surface Hardening</i> <b>André Paulo Tschiptschin</b> , Escola Politécnica da Universidade de São Paulo, Brazil
<b>3:40 p.m. • Break</b>	
4:50 p.m.	<b>CWRU Lab Tours</b>
6:30 p.m.	<i>Symposium Dinner and Reception: Cleveland Museum of Art</i> <b>Special Presentation: Esthetics and Metallurgy of the Japanese Sword</b> <b>Professor Emeritus Michael Notis</b> , Lehigh University, Bethlehem, PA USA

### Wednesday, May 26

8:45 a.m.	<i>Interstitial Hardening of Ni-base and Co-base Alloys</i> <b>Arthur H. Heuer</b> , Case Western Reserve University, Cleveland, Ohio, USA
9:30 a.m.	<i>Innovations in Plasma Assisted Diffusion of Nitrogen and Carbon in Austenitic Stainless Steels and Related Alloys</i> <b>Thierry Czerwiec</b> , Institut Jean Lamour (IJL), Ecoles des Mines de Nancy, France
<b>10:10 a.m. • Break</b>	
10:40 a.m.	<i>Some New Observations on S-Phase Surface Engineering of Fe-Cr, Co-Cr and Ni-Cr Corrosion Resistant Alloys</i> <b>Hanshan Dong</b> , The University of Birmingham, UK
11:20 a.m.	<i>Fundamental Issues in the Simulation of Carburizing, Carbonitriding and Ferritic Nitriding of Low Alloy Steels</i> <b>Richard D. Sisson, Jr.</b> , Worcester Polytechnic Institute, Worcester, Massachusetts, USA
<b>Noon • Lunch, Poster Session and Tabletop Displays</b>	
2:20 p.m.	<i>The Trend in Surface Hardening of Corrosion Resistant Alloys in Japan</i> <b>Kiyoshi Funatani</b> , IMST Institute (Consultant), Nagoya, Aichi, Japan
<b>3:40 p.m. • Break</b>	
4:00 p.m.	<b>Panel Discussion</b>
5:00 p.m.	<b>Adjourn</b>

This field of surface engineering is an emerging technology with multiple areas of active research. Take part in this opportunity to learn the latest from the best.

**Share ideas and advance your career. Plan and register today.**

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- Learn the latest developments in surface hardening from international experts.
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