



PROGRAM

Welcome to the 2nd edition of Nitriding Symposium



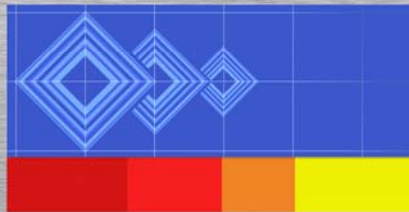
This unique event focuses on the various ways in which educational and industrial developments contribute to enhancing the surface properties of metals through nitriding and nitrocarburizing, with benefits in practical uses and commercial realities.

Symposium delegates will learn from researchers, users, and suppliers about recent developments in process technologies, advanced controls, efficient software tools, and new applications.

Nitriding Symposium 2
is Sponsored by:



NITRIDING SYMPOSIUM 2



November 18-19, 2010
Las Vegas, USA
www.nitriding.info

REGISTRATION	
Wednesday November 17, 6-8 pm	Thursday November 18, 7-8 am

THURSDAY NOVEMBER 18		
8-8:10	Welcome	
ADVANCES IN NITRIDING – CHAIR: DR. G. TOTTEN		
8:10-8:50	Dr. Marcel Somers, Technical University of Denmark	Gaseous nitriding and nitrocarburizing; fundamentals and current understanding
8:50-9:20	Dr. Kiyoshi Funatani, IMST Institute	The trends in nitriding and nitrocarburizing and a new SBN technology
9:20-9:50	Mr. Michael Winter, Process-Electronic - a member of UPC	Controlled nitriding and nitrocarburizing - State of the Art
9:50-10:15	Coffee Break	
10:15-10:45	Dr. Larisa Petrova, MADI-GTU	New combined technologies of thermo-chemical treatment based on nitriding
10:45-11:15	Dr. Juan Dong, IWT	Influence of hydrogen, carbon dioxide and alloy content on pore formation in the white layer
APPLICATIONS & CASES – CHAIR: MR. J. HUBBARD		
11:15-11:45	Dr. Walkowiak, Bodycote Wärmebehandlung GmbH	Application of Nitriding Technologies in the German Automotive Industry
11:45-1	Lunch	
1-1:30	Mr. Zbynek Drda, Bohler- Uddeholm CZ s.r.o.	Practical examples of nitriding
1:30-2	Mr. Andrzej Czelusniak, Nitrex Metal Inc.	Nitriding of hydraulic components
2-2:30	Mr. Zbigniew Zurecki, Air Products & Chemicals Inc.	Development and exploration of nitriding methods for enhancing life of cryogenic mill components
2:30-2:45	Coffee Break	
2:45-3:15	Dr. Gijs Langelaan, Nitrex Metal Inc.	Roughness control of nitrided gray cast iron
3:15-4	Round Table Discussion	
4:30-6:30	Nitrex Nevada – Commercial Heat Treating Plant Tour	
7	Symposium Dinner	



FRIDAY NOVEMBER 19		
8-8:10	Award Ceremony	
ADVANCES IN NITRIDING – CHAIR: DR. K. FUNATANI		
8:10-8:40	Dr. Marcel Somers, Technical University of Denmark	Low-temperature gaseous surface hardening of stainless steel; fundamentals
8:40-9:10	Dr. George Totten, Portland State University, Department of Mechanical and Materials Engineering	Microstructural characterization of nitrided layers produced by plasma nitriding on austenitic and superaustenitic stainless steel grades
9:10-9:40	Dr. Edward Rolinski, Advanced Heat Treat Corp.	Role of reactive sputtering in plasma nitriding
9:40-10	Coffee Break	
10-10:30	Dr. Gijs Langelaan, Nitrex Metal Inc.	Low-temperature process of nitriding austenitic stainless steels
10:30-11	Dr. Moradshahi, Plasma Physics & Nuclear Fusion Research School	Comparison in corrosion resistance of nitrided and nitrocarburized stainless steel by using DC plasma
11-11:30	Dr. Hisao Fujikawa, Air Water Inc.	Corrosion behavior of austenitic stainless steels nitrided at low temperature
DISTORTION – CHAIR: MR. M. KORWIN		
11:30-12	Mr. David Pye, Pye Metallurgical Consulting	Control of Distortion
12-12:15	Coffee Break	
SIMULATION – CHAIR: MR. M. KORWIN		
12:15-12:45	Dr. Joaquin Oseguera, ITESM	Layer growth kinetics during post-discharge nitriding
12:45-1:15	Dr. Richard D. Sisson, Center Heat Treat Excellence, Worcester Polytechnic Institute	Simulation of the ferritic nitriding process
1:15-2	Round Table Discussion	
2	End of Symposium	

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Venue



MGM Grand Hotel

3799 Las Vegas Blvd South, Las Vegas, NV 89109
T 1-877-880-0880 • 702-891-1111 • www.mgmgrand.com

A room block with a limited number of rooms has been reserved at the discounted group rate of \$69 single/double occupancy for November 17 and 18, and \$99 for November 19. A room tax, currently at 12%, will be applied.

Discounted rooms will be available until Monday, October 18, 2010. Reservations received after this date or after the room block has been filled (whichever comes first) are subject to availability and the prevailing hotel rates.

To receive the group rate, callers must identify themselves as being with the Nitriding Symposium group.

Registration



**Registration
is FREE**

This is a complimentary event for researchers, metallurgists, engineers, plant supervisors, and manufacturing managers who deal with nitriding operations in the manufacturing environment. There is no cost to attend this activity.

[Register Now](#)

How to Arrive



MGM Grand is 3 kilometers from McCarran Airport.

Shuttle service is available at the McCarran to MGM from 9am-11pm.

Guests should go to the MGM Registration Desk located in the south baggage claim area, near the bottom of the escalators descending from the C and D gates, next to carousel 1 and 2. One-way 8\$ per person; Round Trip 15\$ per person. For more info call 702-851-7900.

Taxis are available outside the baggage claim area, door exits 1-4. Approximate cost for one-way taxi is \$15 for up to 5 people.

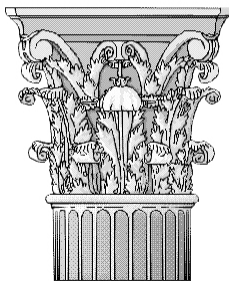


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HEPHAESTUS AWARD



The Hephaestus Award recognizes contributions made by either academic or industrial researchers to the field of heat treating that have had an impact on surface engineering, materials science, and industrial processes or production techniques.

In 2005, Professor Jan Tacikowski of the Institute of Precision Mechanics, Poland was honored for his groundbreaking work in controlled nitriding.

Nominations are now being accepted for the Hephaestus Award at <http://www.nitriding.info/Hephaestus.asp>.

DID YOU KNOW? Every 3½ minutes a child is diagnosed with cancer, and every 4 hours a child loses their battle to cancer. The good news is that with current treatments approximately 75% of children diagnosed with cancer are expected to become long-term survivors.

When we at Nitrex heard of the St. Baldrick's Foundation and its commitment to childhood cancer research, we wanted to share this incredible cause with the heat treat community, solicit participation and make a difference in the lives of children with cancer.

HOW? Six people from Nitrex and UPC have volunteered to go "topless" this October at Furnaces North America in Orlando, Florida to raise awareness and money for children fighting cancer.

For mor info, please go to www.stbaldricks.org/events/HEATTREATING and pledge a donation or become a shavee yourself and raise money. Together we can help ensure that MORE children and young people diagnosed with cancer are cured of their disease.

