

- 23rd Congress in Savannah
- Awards
- Pictures



11 – 13
May 2016



Prague

ATZk

Břevnov Monastery,
Czech Republic

European Conference on Heat Treatment 2016 and
3rd International Conference on HTSE in Automotive Applications

23rd IFHTSE Congress

Just concluded last week, this congress in Savannah, GA, USA, was well attended, with 20 countries represented from each continent. Approximately a total of 171 attended, with 20 exhibitors. The conference was chaired by IFHTSE vice president Scott Mackenzie, organized by ASM, and sponsored by Houghton International and Linde Gas.



1 Scott Mackenzie, IFHTSE Vice President opening the congress

Keynote speeches

The first keynote presenter was Prof. Harry K.D.H. Bhadeshia, who was awarded the IFHTSE Medal, and presented an excellent talk on

“Very Short and Very Long Heat Treatments in the Processing of steel”. It was an excellent talk, with humor, and showed a real connection with the audience. His talk was thought-provoking, and demonstrated some fundamental concepts in a unique manner.



2 IFHTSE medalist Prof. Harry Bhadeshia (2nd f.r.) with IFHTSE president Patrick Jacquot and former presidents Reinhold Schneider (r) and Hans-Werner Zoch (l)

The second keynote was Tobias Steiner, the past winner of the Linde Tom Bell Young Author Award in Munich (2014). His presentation on “Alloying Element Nitride Development in Ferritic Fe-based Materials upon Nitriding,” was interesting, and demonstrated fully why he was chosen for the Tom Bell Award.



The final Keynote was by Prof. Dr.-Ing. habil. Rolf Zenker, on “Surface Treatment by Electron Beam in Combination with Other Heat Treatment Technologies.”



Awards

The Tom Bell Young Author Award Honours the best paper presented by an author under 35 years of age. This award grants the winner free travel, accommodation and participation at the next IFHTSE Congress. It is sponsored by Linde AG. The



3 Patrick Jacquot, IFHTSE president, congratulating Dr. Matteo Villa for the Tom Bell Young Author Award

winner this year was Dr. Matteo Villa, Technical University of Denmark, on his talk “The sub-zero Celsius treatment of stainless steels: experiments and perspective.”

Two best poster awards of 500 € each, also sponsored by Linde AG, went to Ms. Wellington Mattos and Dr. Kazuki Kawata, each with co-authors.



4 IFHTSE's former president Goerge Totten: "Sure, come join us at this table!"

Presentations

Quenching, Modeling, Nitriding, as well as other advanced Thermal Processing were hot topics. One interesting paper on extending the life of Furnace and Fixture Alloys by surface engineering was discussed by Mr. Anbo Wang of Worcester Polytechnic Institute



5 Rick Sisson and students, enjoying the riverboat cruise and taking pictures back and forth

(Student of Prof. Rick Sisson). This paper examined the practical benefits of prolonging the life of expensive high nickel alloy fixtures. by pre-oxidizing using a specific thermal path. This go directly to the bottom-line of many commercial and OEM heat treater
Other conference papers of great practical impact described filtering methods that extend the life of quench oil, minimizing failures of case/core in induction components, process variables and resulting microstructure of electron beam welded structures, and generally control of vacuum carburizing, and gas carburizing.

Special symposium

Residual Stress Prediction, Control and Measurement were worth an extra event in conjunction with the IFHTSE Congress. This symposium brought together many experts from Aerospace, including the USAF Materials Laboratory, Pratt & Whitney, Rolls Royce, Lockheed Martin, Boeing, as well as experts from IWT Bremen, including Prof. Hans-Werner Zoch, and others from the automotive industry. It was

a very exciting symposium with a excellent exchange of ideas between very different industries. A great deal of networking was accomplished.

A special riverboat cruise on the Savannah River with an excellent dinner, and perfect weather was a highlight of the conference. This IFHTSE Congress provided many opportunities for fellowship and networking. It was well organized; the food was good, and the attendees from all over the globe enjoyed themselves.



Germany's Hans-Werner Zoch, former IFHTSE president, enjoying American beer

IFHTSE is very grateful to the Conference Chairman Scott Mackenzie for his untiring effort. Special thanks go also to the ASM Staff (Jeanelle Harden and Lindy Good) and the Sponsors Houghton International, and Linde Gas, for making this event well attended; well organized and extensive technical information exchanged.

Forthcoming Conferences

2016	MAY	11-13	3rd International Conference on Heat Treatment and Surface Engineering in Automotive Applications /European Conference on Heat Treatment	Prague	Czech Republic	www.htconference-prague2016.cz	
2016	MAY	12-14	2nd Heat Treatment & Surface Engineering Conference and Expo 2016	Chennai	India	www.htsechennai.com	
2016	JUNE	22-24	4th Symposium on Surface Hardening of Corrosion Resistant Materials	La Valletta	Malta		
2016	SEP	13-15	10th International Conference «Innovation Technologies of Heat Treatment»	Moscow	Russia	http://www.htexporus.com/conference.html	
2016	SEP	20-23	Heat Treat Mexico	Queretaro	Mexico	http://www.asminternational.org/web/htmexico	
2016	SEP	26-28	3rd Mediterranean Conference on Heat Treatment and Surface Engineering	Portorož	Slovenia	http://mchtse2016.com/	
2016	OCT	04-07	International Tooling Conference	Bratislava	Slovakia	www.tool2016.org	
2016	OCT	26-28	HK 2016 [languages: German/English]	Cologne	Germany	http://www.awt-online.org/haertereikongress.html	
2016	Nov	12-14	5th Asian Conference on Heat Treatment and Surface Engineering	Hangzhou	China	http://www.5achtse.org	
2017	JUN	26-29	24th IFHTSE Congress / European Conference on Heat Treatment	Nice	France	www.a3ts.org	
2018	APR	12-13	European Conference on Heat Treatment	Friedrichshafen	Germany		
2018	AUTUMN		International Conference on Quenching and Distortion Engineering		Japan		