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2nd Mediterranean Conference

2nd Mediterranean Conference on Heat Treatment and Surface Engineering

Dubrovnik-Cavtat Croatia 11-14 June 2013

This English-language Conference has a broadly-based subject coverage. Many of the most significant developments that have occurred in technological general knowledge in recent years, together with economy globalization, have introduced new challenges into the field of heat treatment and surface engineering.

This three-day Conference will provide a forum within which engineers, scientists, researchers and production managers can review and discuss new challenges, recent progress and emerging topics in the fields of advanced heat treatment and surface engineering technology. It should also offer an opportunity to examine the present state and perspectives in theory and practice of heat treatment and surface engineering of metals. Various R&D efforts related to heat treatment and surface engineering will be covered at the conference. The conference will also cover most of physical metallurgy aspects of heat treatment and surface engineering with emphasis on alloy development, microstructure/property relationships and engineering performance. In addition, new engineering processes, mathematical modelling, virtual processing, intelligent systems, modern equipment and management of heat treatment and surface engineering will be considered at the conference.

Those interested in alloy properties, manufacturing processes, modelling and simulation, equipment and management, especially in the fields of advanced heat treatment and surface engineering, will find the conference of great benefit.

The Conference is organised for IFHTSE by the:

- Croatian Society for Heat Treatment and Surface Engineering

Sponsors

- Faculty of Mechanical Engineering and Naval Architecture (FMENA), University of Zagreb, Croatia
- Faculty of Engineering University of Rijeka, Croatia
- Ministry of Science, Education and Sports of the Republic of Croatia
- Croatian Chamber of Economy
- Institute of Metals and Technology, Ljubljana, Slovenia
- Slovenian Society for Heat Treatment

Contributions are particularly welcome under the following headings

- MICROSTRUCTURE TRANSFORMATIONS
- MECHANICAL, PHYSICAL AND TRIBOLOGICAL PROPERTIES
- ADVANCED HEAT TREATING MANUFACTURING PROCESSES
- VACUUM HEAT TREATMENT
- CRYOGENIC TREATMENT AND TEMPERING PROCESS
- BAINITIZING
- INDUCTION AND LOW ENERGY MAGNETIC HEATING
- QUENCHANTS AND QUENCHING TECHNOLOGY
- ADVANCED SURFACE MODIFICATION AND COATING
- HEAT TREATMENT AND SURFACE ENGINEERING OF TOOLS AND DIES
- HEAT TREATING EQUIPMENT
- APPLICATION OF NANOTECHNOLOGY
- MATHEMATICAL MODELLING AND PROCESS SIMULATION

See next page for specifications >



2nd Mediterranean Conference on Heat Treatment and Surface Engineering

Location

Climate

The climate in the Cavtat region in June is excellent (www.cavtat.hr)

Conference hotel

Hotel Croatia

Cavtat - Dubrovnik

The Hotel is only 15 minutes from Dubrovnik airport and 15 minutes by road from Dubrovnik town centre

Accommodation

The special rates at the Conference hotel apply pre- and post- Conference

(<http://www.alh.hr/en/>)

Specifications for contributions

Authors should submit an abstract of up to 400 words to the Conference Secretariat. Abstracts must be in English and:

- Show Title, author(s), affiliation and full contact data including address
- State clearly and concisely the purpose of the work, the method of approach and the most significant results and conclusions

Abstracts and full papers for oral or poster presentation will be subject to the normal review procedure before acceptance. Both oral and poster presentations will be organised and all will be included in the Conference Proceedings.

Selected papers will be published in a range of journals.

2nd Mediterranean Conference on Heat Treatment and Surface Engineering

Conference Secretariat

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BODYCOTE PLC ACQUIRES CAROLINA COMMERCIAL HEAT TREATING BUSINESS FOR US\$ 68 MILLION

Bodycote plc (LSE:BOY), the world's largest thermal processing services provider, announced (October 2012) that it has acquired the business of Carolina Commercial Heat Treating (CCHT LLC) comprising six facilities in the South Eastern USA, together with an additional facility in Southern Indiana. The business was acquired from Bluewater Thermal Solutions LLC (Bluewater), for a total cash consideration of US\$68 million. Bodycote has not acquired any interest in the remaining ten facilities owned by Bluewater in the Great Lakes region of the USA.

MTEC Corrosion Technology Seminar

'Steel and Corrosion Protection in Railway Application'

3 December 2012

Convention Center, Thailand Science Park, Pathumthani, Thailand

MTEC, the Thailand member of IFHTSE is holding this seminar, in association with the Thai Corrosion of Metals and Materials Association, at its headquarters in Pathumthani, about 20 miles north of Bangkok.

The Thai government has initiated a long-term plan to develop the mass rapid transit infrastructure for transportation of people and goods. Thailand, like the rest of South East Asia, is expanding quickly. Energy demand and vehicle numbers are rapidly increasing. In this context, Thailand has an urgent need to increase its urban and longer-distance rail network. However, in this context, the country faces specific problems. Thailand, in the tropics, must address costs from corrosion damage due to its longer wet season.

- Along with the usual enormous costs of building rail infrastructure and services, the high temperatures and high humidity lead to atmospheric corrosion problems of much greater severity than in the temperate zone under similar conditions of pollutant emission. Hence corrosion damage is a serious and expensive challenge.
- There is also a tendency towards increasing airborne salinity leading to more severe atmospheric corrosion from chloride ions.
- Higher SO₂ levels increase rain acidity and lead to serious damage of steel infrastructure by atmospheric corrosion.

In the broader context, Thailand also wants to reduce its dependence on foreign energy sources, decrease environmental damage, and increase quality of life. Around THB 1 trillion (approx. USD 3 billion) will be invested over 20 years, about half of which should create jobs for Thai citizens.

Attendance at this seminar is limited to 60 participants.

(www2.mtec.or.th/eventnstda/)

HEAT TREATMENT 2013 MOSCOW

**7th international exhibition with conference
'Innovative Technologies of Heat Treatment'
10 – 12 September 2013**

Pavilion 5 Expocentre Fairgrounds, MOSCOW, Russia

This is claimed to be the only specialized exhibition in Russia devoted to the heat treatment plant, equipment and technology (industrial furnaces, equipment for thermochemical processing, laboratory furnaces, induction equipment, refractory materials, thermal insulation, equipment, instrumentation, etc.). The 2012 event in the series is said to be twice as large as the previous year.

Exhibitors: suppliers from Russia, Germany, Austria, India, France, USA, China, Ukraine, Israel, Turkey, Slovenia, Poland and Switzerland.

Visitors: representatives of Russian machine building, military-industrial complex, machine-tool construction, instrument making, metallurgy, the oil and gas, etc. industries

www.htexporus.com/how-to-join.html

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HEAT TREATMENT CONFERENCE

QUERÉTARO, Mexico 19 June 2013

The call is for practical, case study papers relating to heat treatment. The title of the paper can be sent in English, but the text and presentation must be in Spanish. Presentation time 20 minutes with 10 minutes for discussion.

Company presentations can be included using an economical promotional stand facility consisting of a table, 3 chairs and poster space (EUR 399).

Participation: Heat treatment professionals from the automotive, aerospace, foundry forge and mould industries etc.

Attendance only – no paper presented - EUR 95 (excluding VAT)

Contribution proposals: heat-treating@metalspain.com

General information <http://metalspain.com/TT-2013-english-mexico.htm>

Organiser: Tratamientos Termicos

Calle Cid 3, 2°

28001 MADRID

Spain

Heat Treatment Congress – MEXICO - QUERETARO 2013

<http://metalspain.com/TT-2013-english-mexico.htm>

IFHTSE CONFERENCE DIARY

2013	European Conference on Heat Treatment and Surface Engineering 25-26 April - Luzern, Switzerland ROMiT 5-yearly Conference Automotive Materials April/May - Tolyatti, Russia Heat Treat and Surface Engineering Conference and Expo 16-18 May - Chennai, India 2nd Mediterranean Conference on Heat Treatment and Surface Engineering 11-14 June - Dubrovnik-Cavtat, Croatia ASM Heat Treating Society 27th Conference and Exposition 16-18 September - Indianapolis, Indiana, USA HK 2013 9-11 October - Wiesbaden, Germany	 b.kuntzmann@listemann.com ak.tikhonov@vaz.ru kamachi@igcar.gov.in www.fsb.hr/hdtoip www.asminternational.org/ www.awt-online.org
2014	21st Congress IFHTSE combined with European Conference on Heat Treatment and Surface Engineering 12-15 May - Munich, Germany HK 2014 October - (Location to be decided), Germany BALTMATTRIB - 22nd International Baltic Conference: Engineering materials and tribology Late October - Riga, Latvia	 www.awt-online.org www.awt-online.org www.ttu.ee/
2015	ASM Heat Treating Society 28th Conference and Exposition September? - Detroit?	www.asminternational.org/
2016	22nd Congress IFHTSE Proposals welcomed	robert.wood@ifhtse.org

