IFHTSE Bulletin
2014 /3
28 March 2014 [no. 32]

- 21st Congress and European Conference 2014
- 22nd Congress and European Conference 2015
- Quenching – special issue of IFHTSE Journal
- IFHTSE conference programme 2014
- Conferences – forward planning

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**European Conference on Heat Treatment and 21st IFHTSE Congress**

**2014**

**IFHTSE 21st CONGRESS / 2014 EUROPEAN CONFERENCE**

12-15 MAY
Munich Germany

Conference website for programme/information/registration/accommodation etc.


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**IFHTSE 22nd CONGRESS / 2015 EUROPEAN CONFERENCE**

27-29 MAY
Mestre/Venice Italy

Conference website: www.aimnet.it/ht2015.htm
Exhibition enquiries: marketing@aimnet.it
Quenching: Special issue of IFHTSE Journal

As announced in Bulletin 2014/2, Volume 8 (2014) no. 1 of International Heat Treatment and Surface Engineering is a Special Issue on QUENCHING. The contents cover multi-cycle process developments – quenching-partitioning-quenching: cooling performance, quenchant selection, low pressure carburising and high pressure gas quenching. There is an introductory report on the IFHTSE Liquid Quenchants Database Project.

Imre Felde, Leader of the LQD Project

The experiments carried out during Phase 1 showed that acceptable agreement between the temperatures recorded in laboratories at four continents by using the ISO 9950 method could be achieved. However, a certain deviation between the cooling curves can originate from the application of different instrumentation as well as inaccurate attention to the conditions used during the measurements. Therefore, the following tasks are proposed:

- more accurately defined and strictly complied with conditions must be followed during the cooling curve acquisition of Petrofer oil quenchants. In this case, three different types of oils will be analysed at three given temperatures. Better or more similar results are expected by performing the sampling using strictly applied conditions
- performing a benchmark test of the inverse heat conduction algorithms applied by the contributors would be beneficial in order to indicate their performance. The test will be carried out on five cooling curves generated by a finite element method model of an ISO 9950 probe using five different hypothetical HTC(7) functions. The task of the partners will be to generate the thermal boundary condition functions [to reconstruct the HTC(7) functions]. The evaluation of inverse techniques will be obtained from the predicted heat transfer coefficients.
### IFHTSE Conference programme 2014

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Location</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel in cars and trucks</td>
<td>15-19 June</td>
<td>Braunschweig, Germany</td>
<td><a href="http://www.sctf14.com">www.sctf14.com</a></td>
</tr>
<tr>
<td>9th International Conference on Thermal Process Modeling and Computer Simulation</td>
<td>16-18 June</td>
<td>Orlando, USA</td>
<td><a href="http://www.asminternational.org/content/Events/modelin">www.asminternational.org/content/Events/modelin</a></td>
</tr>
<tr>
<td>Heat Treatment 2014 Moscow: Exhibition and Conference</td>
<td>10-12 September</td>
<td>Moscow, Russia</td>
<td><a href="http://www.htexporus.com">www.htexporus.com</a></td>
</tr>
<tr>
<td>2nd International Conference on Energy and the Future of Heat Treatment and Surface Engineering</td>
<td>11-13 October</td>
<td>Beijing, China</td>
<td><a href="mailto:chts@cht.org.cn">chts@cht.org.cn</a></td>
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### Other events 2014

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Location</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014 PM World Congress</td>
<td>18-22 May</td>
<td>Orlando, FL, USA</td>
<td><a href="http://www.mpif.org/Meetings/Conference.asp?linkid=14">www.mpif.org/Meetings/Conference.asp?linkid=14</a></td>
</tr>
<tr>
<td>41st Congress A3TS (French language)</td>
<td>11-13 June</td>
<td>Reims, France</td>
<td><a href="http://www.a3ts-congres.fr/">www.a3ts-congres.fr/</a></td>
</tr>
<tr>
<td>Surface Modification Technology Series no. 28</td>
<td>15-18 June</td>
<td>Tampere, Finland</td>
<td><a href="http://www.tut.fi/smt28">www.tut.fi/smt28</a></td>
</tr>
<tr>
<td>13th European Vacuum Conference / 7th European Topical Conference on Hard Coatings</td>
<td>8-12 September</td>
<td>Aveiro, Portugal</td>
<td><a href="http://www.evc13.com">www.evc13.com</a></td>
</tr>
<tr>
<td>Euro PM</td>
<td>21-24 September</td>
<td>Salzburg, Austria</td>
<td><a href="http://pm2014.epma.com">http://pm2014.epma.com</a></td>
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<tr>
<td>HK 2014</td>
<td>22-24 October</td>
<td>Cologne, Germany</td>
<td><a href="http://www.AWT-online.org">www.AWT-online.org</a></td>
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Conference diary – forward planning

2015

IFHTSE 22nd Congress with European Conference
Mestre Italy, May 2015 – see page 1

ASM HTS Conference and Expo
Detroit MI USA, September 2015

HK 2015
Germany, October

Conference with the theme: 'Heat treatment and surface engineering for tribological performance'
Tallinn Estonia

2016

IFHTSE 23rd Congress
USA, location to be decided; date probably March/April/May 2016*

3rd Mediterranean Conference on heat treatment and surface engineering ('tool' theme?)
Portorož Slovenia, Late May 2016*

European Conference
Prague, Czech Republic

HK 2016
Germany, October

2017

IFHTSE 24th Congress with European Conference
France

World Tribology Congress
Beijing China

*These plans are for discussion at the 43rd Assembly of the Governing Council of IFHTSE on 12 May 2014