Participation fees excl. VAT

Early Bird (31.01.2018) / Speaker 520 €
Conference fee 620 €
Retired AWT-members / students 320 €
The conference fee includes the admission to the conference sessions, refreshments during the coffee breaks one conference dinner (boat trip on the lake Constance), one proceedings.

Registration and terms of condition:

Please register online (www.echt2018.de) or with the enclosed form until **March, 28, 2018**.
For cancellation, please write a notification to the conference manager (h.dietz@awt-online.org). For cancellations received before March, 15, 2018 a cancellation fee of 150 € (net) will be charged. For cancellation after March, 15, 2018 the full conference fee has to be paid. Please note, that on-site registrations have to be paid cash and an extra fee of 50 € will be charged.

Accommodation

We recommend hotel booking with our partner 'Tourist-Information Friedrichshafen'.
The congress room capacities can be booked until March, 14, 2018. E-mail: buchung.ti@friedrichshafen.de, phone: +49 (0) 7541 3001, or with the booking form on www.echt2018.de (keyword: European Conference on Heat Treatment 2018).

Venue

Graf-Zeppelin-Haus Friedrichshafen
Olgastraße 20
88045 Friedrichshafen, Germany

Conference manager:

Mrs. Hella Dietz, phone +49 421 522 9339,
fax +49 421 522 9041, h.dietz@awt-online.org

Organized by

Arbeitsgemeinschaft Wärmebehandlung und Werkstofftechnik e V. (AWT)
in corporation with Stiftung Institut für Werkstofftechnik (IWT)

AWT
Arbeitsgemeinschaft Wärmebehandlung + Werkstofftechnik e.V.

IWT Stiftung Institut für Werkstofftechnik Bremen

www.echt2018.de

In co-operation with:

A3TS · ASMET THE AUSTRIAN SOCIETY FOR METALLURGY AND MATERIALS · AIM ASSOCIAZIONE ITALIANA DI METALLURGIA · ASTT Association Suisse de Traitement Thermique des Matériaux · ATZk · SVW Schweizer Verband für Wärmebehandlung · VWT

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ECHT
European Conference on Heat Treatment

Call for papers 2018

Nitriding and Nitrocarburising

12 / 13 April 2018
Friedrichshafen, Germany

Outline

For almost a century, nitriding and nitrocarburising have become established thermochemical heat treatment methods for surface hardening of iron-based steel grades. They enrich the surface layer with nitrogen and, in the case of nitrocarburising with the addition of carbon. Nitriding and nitrocarburising are environmentally compatible and exhibit very little distortion, in contrast to martensitic hardening processes. Primary applications are able to reduce wear and increase strength.

In recent years these surface hardening processes have been stimulated by new know-how and continuous innovations. New applications aiming at saving energy and other resources through the use of recyclable lightweight construction, as well as applications where toxic chromium (VI) compounds, used for corrosion reduction, could be replaced by post-oxidation show impressively how up-to-date these processes are. This makes nitriding/nitrocarburising an interesting process for improving the properties of components used in power generation, transport and mechanical engineering. Precision machining by diamond cutting of nitrided surfaces with defined porosity for enhanced wear resistance allow the realization of completely new applications.

Nitriding and nitrocarburising of stainless steels at low temperatures as well as deep case nitriding have already found their way into design drawings. In order to produce such different surface properties, new developments with regard to sensor technology, control and simulation in nitriding and nitrocarburising processes are necessary.

Following the successful editions of 1991, 1996, 2002 and 2010, the 'European Conference on Heat Treatment 2018 – Nitriding and Nitrocarburising' will help in keeping professionals, engineers and scientists in the areas of education, science, research and production informed about new developments.The conference language is English.

Call for papers

Abstracts, no longer than 2500 characters (incl. space characters), can be submitted until **November 30, 2017** to info@awt-online.org.

Deadlines

Submission of abstracts: 30.11.2017
Full paper: 28.02.2018

The complete programme will be published on www.echt2018.de at the end of December 2017.

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