



2012

## 2<sup>nd</sup> INTERNATIONAL SEMINAR

on Hot Sheet Metal Forming  
of High-Performance Steel



### PROGRAM

October 24<sup>th</sup> to 25<sup>th</sup> | EuroBLECH 2012 Hanover, Germany

## MEET THE KEY PLAYERS IN INDUSTRIAL HOT STAMPING TECHNOLOGY!

Dear Colleagues,

it has become a tradition for the Swedish-German Centre for Hot Sheet Metal Forming of High-Performance Steel CHS2 ([www.chs2.eu](http://www.chs2.eu)) to organize its International Seminar in the course of the biennial International Sheet Metal Working Technology Exhibition EuroBLECH in Hanover. Through these series of seminars, a highly

appreciated forum for industrially applicable technology in the field of hot stamping has been successfully established. In 2010 more than 100 participants from all over the world took the opportunity to meet the highly renowned experts at this platform and to share and exchange their knowledge and experience. For the 2<sup>nd</sup> Seminar

in October 2012, this time a full two-day program consisting of 18 presentations in two main topical modules – Process Design & Technology and Part Design & Materials Selection – again offers valuable information and insight in ongoing developments in press hardening technology.

We are looking forward to meeting you there!

Kurt Steinhoff,  
Mats Oldenburg,  
Braham Prakash

### SEMINAR FEE AND REGISTRATION

All registrations before August 17, 2012, 10% off.  
Afterwards full price.

Binding registration has to be done via fax formular on [www.grundig-akademie.de](http://www.grundig-akademie.de)

Invoicing will be done by our partner TOP Business AG



Module A (24.10.12) | Process Design & Technology  
350,00 € (excl. tax) / 416,50 € (incl. 19% tax)



Module B (25.10.12) | Part Design & Material Selection  
350,00 € (excl. tax) / 416,50 € (incl. 19% tax)



Module A & B (24.10. – 25.10.12)  
560,00 € (excl. tax) / 666,40 € (incl. 19% tax)

The seminar fee includes the participation in the lectures as well as printed proceedings and catering during the day. The access to the EuroBLECH 2012 is not included!

### ORGANIZED BY

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TOP Business AG  
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90411 Nürnberg

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More information:  
[www.chs2.eu](http://www.chs2.eu)



## VENUE

The 2<sup>nd</sup> International Seminar will be organized in Hanover, Germany, on October 24-25, 2012 during the International Sheet Metal Working Technology Exhibition EuroBLECH 2012 ([www.euroblech.com](http://www.euroblech.com)).

It takes place at the Convention Center within the fairground of the Deutsche Messe AG. ([www.messe.de/homepage\\_e](http://www.messe.de/homepage_e))



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## ROUTE PLAN



## SITEMAP

## RECOMMENDED HOTELS

### Best Western Premier Hotel

Gut Kronsberg 1  
D - 30539 Hanover, Germany  
fon: +49 (0) 511 - 87 400  
fax: +49 (0) 511 - 86 7112  
email: [parkhotel@kronsberg.bestwestern.de](mailto:parkhotel@kronsberg.bestwestern.de)

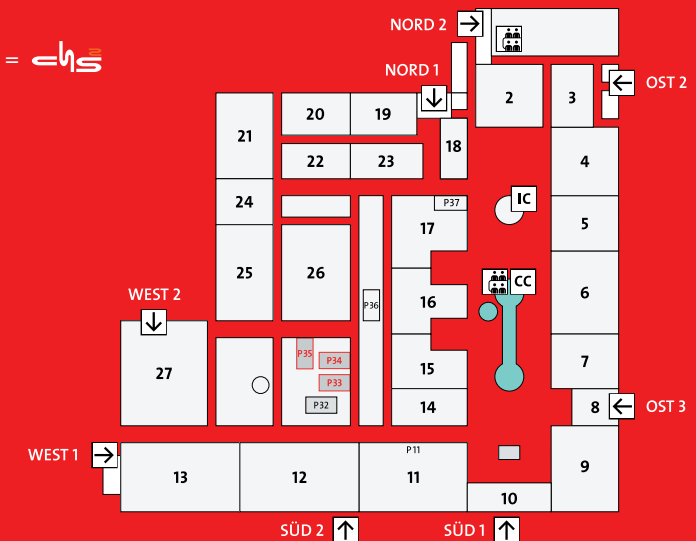
### Radisson Blu Hotel

EXPO Plaza 5  
D - 30539 Hanover, Germany  
fon: +49 (0) 511 - 38383 - 0  
fax: +49 (0) 511 - 38383 - 8000  
email: [info.hannover@radissonblu.com](mailto:info.hannover@radissonblu.com)

### Copthorne Hotel

Würzburger Straße 21  
D - 30880 Hanover-Laatzten, Germany  
fon: +49 (0) 511 - 9836 - 0  
fax: +49 (0) 511 - 9836 - 667  
email: [sales.hannover@millenniumhotels.de](mailto:sales.hannover@millenniumhotels.de)

- Information Center
- Convention Center =
- Meeting Rooms
- Entrance



10:00 **Opening**

## Module A Process Design & Technology

10:10 **Process – Press Hardening**

Kent Eriksson (AP&T Advanced Automation, Tranemo, Sweden)

10:30 **Ebner Furnaces – Review on Existing References and Overview on Upcoming Developments**

Fritz Ebner, Siegfried Hehenberger (Ebner Industrieofenbau Ges.m.b.H., Leonding, Austria)

10:50 **Simulation Techniques for the Prediction of Material Properties of Press Hardened Parts**

Ingo Neubauer, Gerald Rothenbacher (simufact engineering gmbh, Baunatal, Germany)

11:10 **Refreshment Break**12:00 **Advanced Tools and Systems for Hot Stamping of Parts with Complex Shape**

Ralf Hund (BRAUN CarTec GmbH, Schwalbach, Germany)

12:20 **Automated Laser Processing Reaches the Next Level of Efficiency in Hotstamping Production**

Michael Fritz (TRUMPF Laser-und Systemtechnik GmbH + Co. KG, Ditzingen, Germany)

12:40 **Business Lunch**14:00 **KEYNOTE LECTURE:**

**All about Press Hardening – An Overview on Technology and Markets**  
Prof. Kurt Steinhoff (University of Kassel, Germany)

14:40 **Prediction of Spot Weld Failure for Ultra High Strength Steels**

Martin Brandhuber (BMW Group, Munich, Germany)

15:00 **Simulation of Hotforming and Quenching Processes for Final Product Prediction**

Michael Kerausch (AutoForm Engineering Deutschland GmbH, Pfaffenhofen, Germany), Martin Stillger (Adam Opel AG, Ruesselsheim, Germany)

15:20 **Use of Newly Developed High and Low Thermal Conductivity Tool Materials to Produce Tailored Components Directly through Hot Stamping**

Anwar Hamasaiid, Anna Ingebrand, Isaac Valls (Rovalma S.A., Terassa, Spain)

Manel Baccar, Farhad Rézai (École des Mines Albi, Albi Cedex, France)

Joerg Clobes, Michael Alsmann (Volkswagen AG, Baunatal, Germany)

15:40 **Advanced Tool Surface Treatments for High End Tools**

Andreas Reiter (Oerlikon Balzers AG, Balzers, Liechtenstein)

16:00 **End of day 1**

OCTOBER 25<sup>th</sup>

# Module B

Part Design & Materials Selection

10:00 Re-Opening



## Module B Part Design & Materials Selection

- 10:10 **Strategies for Press Hardening of Products with Tailored Properties**  
Agim Ademaj, Stefan Prokoph (University of Kassel, Germany)  
Joerg Clobes, Franz-Josef Watermeier (Volkswagen AG, Baunatal, Germany)
- 10:30 **Cost-efficient Lightweight Design through Hot Forming**  
Jens Horstmann (ThyssenKrupp Steel Europe AG, Duisburg, Germany)
- 10:50 **Zinc-coated Boron Steel, ZnX<sup>®</sup> – Direct Hot Forming for Automotive Applications**  
Wico Verloop (Tata Steel Europe, IJmuiden, The Netherlands)  
Guido Hensen (Tata Steel Research Development & Technology, IJmuiden, The Netherlands)
- 11:10 **Refreshment Break**
- 12:00 **Hot Forming of Thick-walled Steel Parts**  
Burkhard Pottschull (Hoermann Automotive Bielefeld GmbH, Bielefeld, Germany)
- 12:20 **Newly Developed Zn Coated Hot Stamping Steels for the Direct Forming Process**  
David Kim (Taekyu Kim, 김태규) (Posco Europe Office, Duesseldorf, Germany)



OCTOBER 25<sup>th</sup>

12:40 **Business Lunch**

14:00 **KEYNOTE LECTURE:**

**Recent Developments in Modelling and Simulation of Press Hardening Processes**

Prof. Mats Oldenburg (Luleå University of Technology, Sweden)

14:40 **N.N.**

15:00 **Hot Stamping at GEDIA – A Report on Technology Ramp-up and Market Entry**

Burkhard Vogt (GEDIA Gebrüder Dingerkus GmbH, Atten-dorn, Germany)

15:20 **Zinc Coated Press Hardening Steels – Status and Developments**

Thomas Kurz (voestalpine Stahl GmbH, Linz, Austria)

15:40 **Nondestructive Testing (NDT) for Quality Assurance and Process Control of Press-hardened Steel**

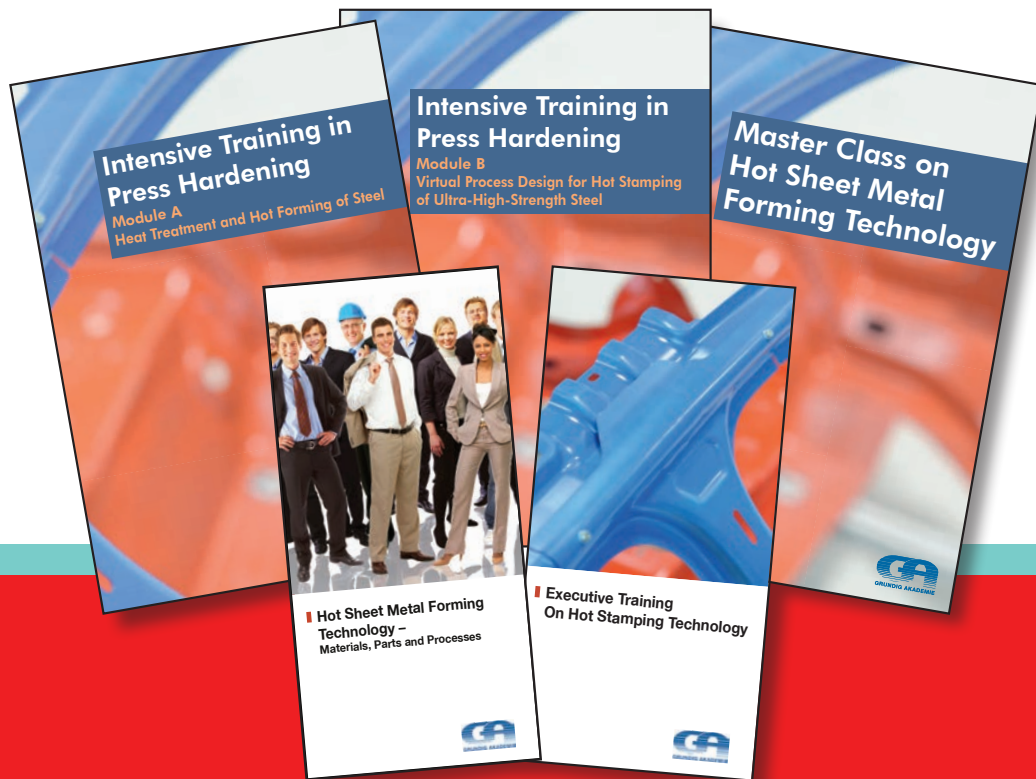
Matthias Bastuck, Christian Conrad, Hans-Georg Herrmann, Rolf Kern, Bernd Valeske, Bernd Wolter (Fraunhofer-Institut für zerstörungsfreie Prüfverfahren, IZFP, Saarbruecken, Germany)

16:00 **End of day 2**

Luleå, Sweden from June 9<sup>th</sup> to 12<sup>th</sup>, 2013

## TRAINING

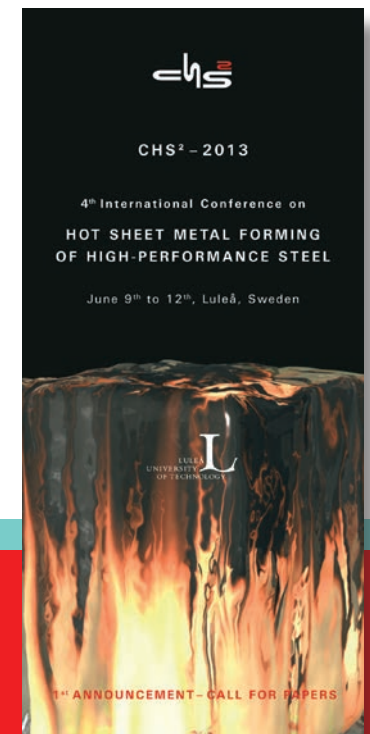
Due to the increasing demand for specific training and qualification in the field of Hot Sheet Metal Forming Technology, CHS<sup>2</sup> decided to establish cooperation with the GRUNDIG AKADEMIE as one of the internationally most renowned institutions in postgraduate training.



## ANNOUNCEMENT

### CHS<sup>2</sup> Conference 2013

Please note that the 4<sup>th</sup> International Conference on Hot Sheet Metal Forming of High-Performance Steel will take place at "Kulturens Hus" in Luleå, Sweden, from June 9<sup>th</sup> to 12<sup>th</sup>, 2013.



## KINDLY SUPPORTED BY

EuroBLECH 2012, Mack Brooks Exhibitions Ltd, St Albans, England



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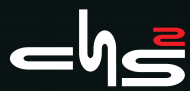
## NETWORK



## ORGANIZED BY

GRUNDIG AKADEMIE GRUPPE  
TOP Business AG | Klingenhofstraße 58 | 90411 Nürnberg | [www.topbusinessag.com](http://www.topbusinessag.com)

More information:  
[www.chs2.eu](http://www.chs2.eu)



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