



4th REGIONAL SEMINAR ON HOT STAMPING TECHNOLOGY

- 1st GM PHS Suppliers Forum -

PROGRAM

Detroit, 22nd March 2013



General Motors Company



PROVIDING INSIGHT – SHARING EXPERIENCE – GAINING ACCESS



There is no doubt about hot stamping technology having developed towards the strongest driver in contemporary

lightweight car body design.

Although it's still quite new for most of the typical players in sheet metal forming technology and body-in-white design it should be realized that it did not just appear out of a sudden. It took

almost 40 years from the first invention to make press hardening of heat treatable steel what it is today: A global technology!

While during the last decade, global hot stamping game was played only by a comparably small team of highly specialized key-players, it actually becomes a main-stream dragging in more and more players into the game.

Apparently there seems to be almost no other option left to fulfill requirements on weight reduction and passenger safety.

However, to compete with the already well established one's in technology means far more than combining a press and a furnace and just do it. It is about taking right decisions on investments in infrastructure and finally not to

forget at the same time to invest in people. The seminar, therefore, aims at providing insight into technological complexity, sharing experience and gaining access to knowledge and expertise on related process and materials technology.

See you in Detroit!
Kurt Steinhoff

SEMINAR FEE AND REGISTRATION

Seminar Fee: 490.00 US Dollar

Binding registration has to be done via fax formular on www.hotforming-academy.com.

Invoicing will be done by our partner TOP Business AG.

The seminar fee includes the participation in the lectures as well as printed proceedings and catering during the day.

ORGANIZED BY

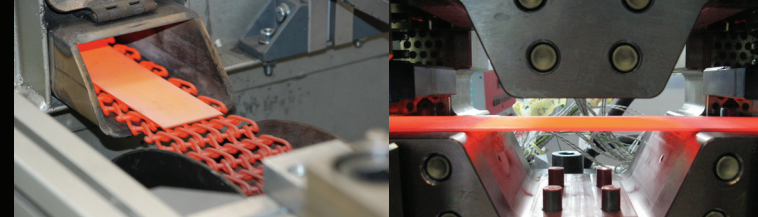
GRUNDIG AKADEMIE GROUP
TOP BUSINESS AG
Klingenhofstrasse 58
90411 Nuremberg
Germany



Christian Kovacs
fon +49 911 95117 - 231
fax +49 911 95117 - 309
kovacs@grundig-akademie.de

www.hotforming-academy.com

VENUE



The 4th Regional Seminar on Hot Stamping Technology will be organized in Detroit, Michigan, USA, 2013.

It takes place at the Courtyard
by Marriott Detroit Downtown.

Courtyard Detroit Downtown
333 East Jefferson Ave
Detroit, Michigan 48226
USA

fon: +1 313-222 7700
fax: +1 313-222 6509
web: www.marriott.com





09:00 Welcome and Opening

KEYNOTE 1

- 09:15 All about Press Hardening! – An Overview on Technology and Markets**
Kurt Steinhoff (University of Kassel, Germany)

SESSION 1

“The Big Investments”: Equipment and Machinery

- 09:45 PHS Production Concepts – Presses, Automation and Integration**
Thomas Finkler (ThyssenKrupp System Engineering GmbH, Wadern-Lockweiler, Germany), Richard Trahey (ThyssenKrupp System Engineering Inc., Auburn Hills, Michigan, USA)
- 10:10 Furnace Technology in Industrial Hot Stamping – From Heat Treatment to Energy Efficiency**
Fritz Ebner (Ebner Industrieofenbau GmbH, Leonding, Austria)
- 10:35 Heat Helps! – Laser Applications for Trimming and Joining of UHSS Parts**
Michael Fritz (Trumpf Laser- und Systemtechnik GmbH, Ditzingen, Germany)

11:00 Refreshment Break

SESSION 2

“Things are Moving”: Materials & Coatings

- 11:40 Zn-Coated Boron Steel – Direct Hot Forming for Automotive Applications**
Wico Verloop (Tata Steel Europe, IJmuiden, The Netherlands)
- 12:05 Don’t Let the Heat have you Beat! – Tool Steels for Press Hardening**
Isaac Valls (Rovalma S.A., Terrassa (Barcelona), Spain)
- 12:35 Zinc Coatings between Indirect and Direct Hot Stamping – A Magnitude of Experience**
Josef Faderl (voestalpine Stahl GmbH, Linz, Austria)

13:00 Business Lunch

KEYNOTE 2

- 14:00 Future for Press Hardening Steel at General Motors**
Luke Reini, Paul Belanger (General Motors Company, Detroit, USA)

SESSION 3

“Bringing it to the Point!”: Parts & Properties

- 14:30 PHS Process and Product Technologies for Global Supply**
Ignacio Martin (Gestamp BIW, Sant Esteve Sesrovires, Spain)
- 14:55 Designing Complexity! – Tools and Dies**
Ralf Hund (Braun CarTec GmbH, Schwalbach, Germany)
- 15:20 Strategies for Press Hardening of Parts with Tailored Properties**
Agim Ademaj, Dennis Fuss (University of Kassel, Germany)
- 15:45 Refreshment Break**
- 16:05 Key to Quality Control! – Nondestructive Testing of UHSS Parts**
Bernd Wolter (Fraunhofer Institute IZFP, Saarbruecken, Germany)
- 16:30 Modelling & Simulation of Hot Stamping Processes**
Michael Kerausch (AutoForm Engineering, Pfaffenhofen, Germany)

16:55 Closing Remarks: “Do not Forget to Invest in People!”

17:30 Networking Reception

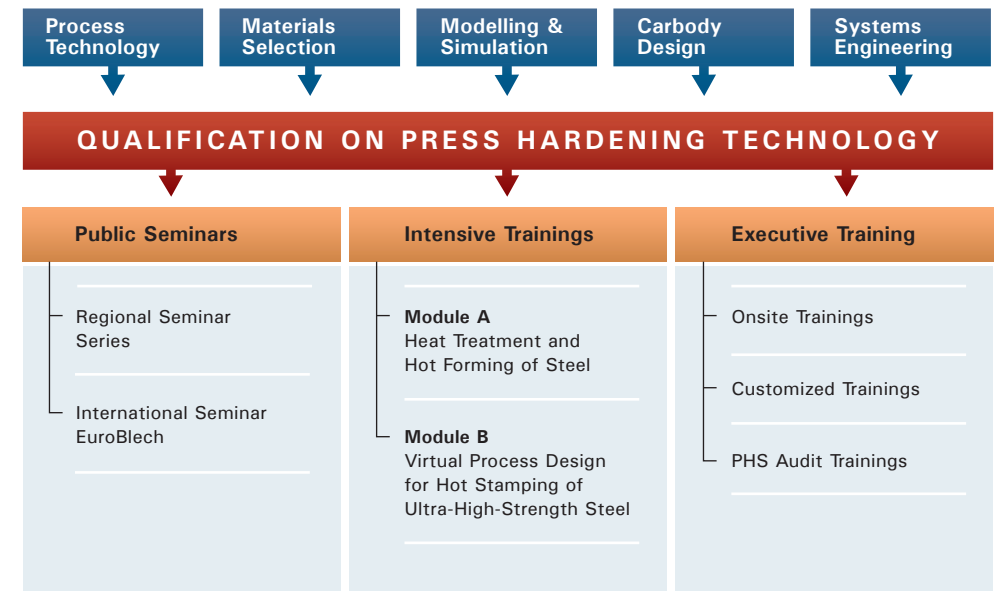
TRAINING

GRUNDIG AKADEMIE GROUP

The GRUNDIG AKADEMIE GROUP is one of the internationally most renowned institutions in postgraduate training. The qualification on “Press Hardening” is internationally accredited and focused on the needs of each individual company. The specified seminars are aimed at combining practical experience, fundamentals and innovative technologies on the shop floor level.



PRODUCT OVERVIEW



www.hotforming-academy.com

Luleå, Sweden from June 9th to 12th, 2013

KINDLY SUPPORTED BY

ANNOUNCEMENT

CHS² Conference 2013

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

General Motors Company

www.gm.com



Swedish-German Centre of Excellence on Hot Sheet Metal Forming of High-Performance Steel – CHS2

www.chs2.eu



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TOP BUSINESS AG | Klingenhofstrasse 58 | 90411 Nuremberg | GERMANY

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