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CHS² – 2013

4th International Conference on
**HOT SHEET METAL FORMING
OF HIGH-PERFORMANCE STEEL**

June 9th to 12th, Luleå, Sweden

FormKonfekt.de | 03.12

CALL FOR PAPERS

All contributions on the theme of the conference are welcome. Prospective authors are invited to submit abstracts by mail or email to the conference secretary. The papers will be reviewed by the members of the scientific committee and, if accepted, published in the conference proceedings.

The organisation committee will encourage high scientific quality conference papers to be published in international journals after the conference.

Abstract Submission Guideline

- Maximum one page, DIN A4
- Text: approximately 150 words
- Language: English
- Abstract must also include
 - title of paper, name, affiliation, address, keywords, references

ORGANIZED BY

Swedish-German Centre of Excellence for Hot Sheet Metal Forming of High-Performance Steel, CHS2, Luleå / Kassel (www.chs2.eu)

CONFERENCE SECRETARY

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Updated information can be found on the conference homepage www.chs2.eu



1st ANNOUNCEMENT – CALL FOR PAPERS

SCOPE

The fourth international conference on the topic of hot sheet metal forming of high-performance steel is arranged in Luleå, Sweden, the place where the technology of press hardening was invented and industrialized. As a result from the three previous conferences arranged within the topic of hot sheet metal forming, the CHS2 conference series has become the meeting place where the people interested in this increasingly important technology look forward to present and discuss the latest research findings and developments on the international arena. The demand for hot sheet metal forming technology is steadily increasing and we are now experiencing an unprecedented growth in a variety of applications, mainly in the automotive sector. The research concerning hot forming processes,

micro-structure evolution, deformation, failure, thermal properties and issues such as tailored material properties, coatings, heat transfer, high temperature tribology, is intense and a strong research community has been developed. This fourth international conference will reflect the continuous progress in research and development that has already been highlighted in the previous conferences since the start in Kassel 2008. The scientific and industrial community will be further strengthened and the results and developments from the growing international research programmes will be presented. As the previous conferences, CHS² 2013 will be the focal point for progress in the field of hot sheet metal forming.

The City of Luleå welcomes all participants to a town surrounded by water, clear skies and around-the-clock light summer nights. The airport is close to the city with hourly connections to Stockholm and the rest of the world. During spare time you can visit attractions like Gammelstad Church Town, placed on the UNESCO world heritage list, take a tour on a boat and experience the Luleå archipelago or take a trip a short distance to the north to enjoy the midnight sun.

IMPORTANT DATES

Abstract submission:	October 15, 2012
Full paper submission:	February 15, 2013
Revised paper submission:	April 15, 2013
Conference:	June 9–12, 2013

VENUE

Kulturens Hus (House of Culture)
Norra Hamn, Luleå

June 9, 2013: Reception and pre-registration
June 10 –12, 2013: Conference



Sunset in Norra Hamn, Luleå



Kulturens Hus (House of Culture); Photo by Lena Nilsson



Gammelstad Church Town

CONFERENCE TOPICS

Material

- high-performance steel
- tool steel
- microstructural properties
- surface design and coatings

Modeling and Simulation

- microstructure
- heat transfer
- thermo-mechanical properties
- process modeling
- deformation and fracture
- component properties
- friction and wear

Process Design

- heating and cooling strategies
- tool systems
- automation and control
- process monitoring

Products

- tailored material properties
- cutting and joining technologies
- applications and performance
- Design

