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Preface

The Fourth International Conference on Advanced High Strength Steel and Press Hardening will be held on August 20-22th, 2018 in Hefei, China. The conference will be a grand academic convention around the material, processes, equipment research and market service of high performance sheet metal after the very successful 2014 conference in Chongqing and 2015 conference in Changsha, 2016 conference in Xian China.

In 2015 the automotive production and marketing in China still ranked first in the world. China has become the last and biggest automotive market, but energy-saving emission reduction and safety are always the focus during the development of automotive industry. The light-weight of vehicle is the most direct and effective means and high performance sheet metal hot forming is the efficient and cost-effective technology to realize both the light-weight and assurance of safety. Also the prospects of advanced digital manufacturing technology and the huge market potential has been aroused strong interest. The hot stamping has developed at a breathtaking speed as soon as the technology enters China, and considerable progress has achieved in China. The huge demands not only make ICHSU being the exchange and exhibition platform of press hardening technology which arouses the interest from academics and industry all over the world, but also encourage and speed up the development of this technology through different technology development path and competition between enterprises, and provide opportunities for expanding application of light-weighting components in China auto industry.

Just in this situation, we decided to convene the third international conference on AHSS and press hardening. The conference topics will include the following aspects:

- Performance and organizational control of hot stamping parts of AHSS and aluminum alloy;
- AHSS stamping and rolling forming technology;
- Digital intelligent hot stamping equipment system;
- Performance test and evaluation of hot stamping parts;
- The production management technology and quality assurance system.

The conference will uphold the purpose of the previous ICHSU to provide an international platform to the academic and industrial peers for exhibition and exchange of application achievement of advanced forming technology and understanding development in the future about research and application in China and the world. On this platform, all participants, whether come from technology R&D units, equipment manufacturing units, automotive production enterprises with AHSS stamping parts, as well as the tooling and die manufacturing companies, or part design units, function test units, will have an unexpected harvest.

The conference will provide an opportunity to meet old friends, make new friends, exchange information, share the achievement and look forward to the future. In addition to academic exchanges, the conference will also invite relevant enterprises to exhibit technology and equipment, and organize some exciting technological and social visits in return for delegates. We sincerely invite domestic and foreign people around the world to actively participate in ICHSU2018 He Fei, China.

Conference Organization

Hosted by

- Imperial College Lodon
- State Key Laboratory of Materials Processing and Die & Mould Technology, Huazhong University of Science and Technology
- State Key Laboratory of Vehicle NVH and Safety Technology,
 China Automotive Engineering Research Institute Co., Ltd
- National Engineering and Research Center of Advanced Steel Technology,
 China Iron & Steel Research Institute Group
- State Key Laboratory of Development and Application Technology of Steel for Automobile, BAOSTEEL
- State Key Laboratory of Advanced Forming Technology and Equipment,
 China Academy of Machinery Science and Technology
- State Key Laboratory of Rolling and Automation, Northeastern University
- State Key Laboratory of Metal Matrix Composites, Shanghai Jiao Tong University
- National Engineering Laboratory of Clean Energy Vehicle & Power Train Systems, Tongji University
- Engineering Research Center of Hubei Province for Advanced Steel Technology,
 Research Institute of Wuhan Iron & Steel Group
- Advanced metal material precise thermo forming Technology (national & local joint) Engineering Research Center, Northwestern Polytechnical University
- Key Laboratory of Hubei Province for Modern Vehicle Component, Wuhan University of Technology

Co-organized by

Materials Committee of SAE-China Materials Institution, Chinese Mechanical Engineering Society Shanghai Society of Automotive Engineers

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Prof. K.Mori, Toyohashi University, Japan

Prof. Ninshu Ma, Osaka University, Japan

Prof. BjørnHolmedal, Norwegian University Science & Technology, Norway

Agenda

Before July 25: Author Registration by E-mail

August 19: Conference Check-in
August 20-22: Academic Report

August 23: Academic Report , Visit, Communication and Exhibition

Call for Papers

Editorial Committee

Editors in chief: Yisheng Zhang , Mingtu Ma Authors from the worldwide are welcome to gather at this international academic convention. The conference will collect 120 papers and all accepted papers will be indexed by ISTP, Google Scholar, the details can be seen via conference website www.ichsu.org. About 84 accepted papers will be reported by oral, others will be posters.

Topics

After the conference, outstanding papers will be published based on the following topics, which are included but not limited:

- Advanced High Strength Steel/Aluminum Alloy
- Hot Stamping of AHSS
- · Hot Stamping of High Strength Aluminum Alloy
- · Cold Forming and Roll Forming of AHSS
- Cold/Hot Forming of Tailor-welded Blank
- Modeling & Simulation
- Products & Application
- Surface Condition, Friction & Lubrication
- Coating, Corrosion & Preservation
- Process and Industry Production Process Design
- Heating & Cooling
- Microstructure & Phase Transformation
- Tools & Dies Design and Manufacture
- Testing & Assessment
- Hot stamping Parts Design of Auto Body
- · Laser Cutting and Welding
- Digital and Intelligent Technology of Hot Stamping Equipment and its Application
- Others

Paper Submission

All submissions must be original, unpublished, and not submitted concurrently for publication elsewhere. The final version of the paper must be prepared in MS WORD, adhering to the Template format. Paper submission will be done electronically via Email: ichsu@vip.163.com. Please title the Submission email with "paper submission for ICHSU 2018".

Important Dates

Abstract Submission Deadline: May 15, 2018 (include title, authors, key word and abstract)

Full Paper Submission Deadline: June 25, 2018 Final Author Notification: July 15, 2018

Publication

All submissions must be original, unpublished, and not submitted concurrently for publication elsewhere. All accepted papers will be published by famous international publisher and submitted to ISTP, Google Scholar database for indexing. Each paper should be five pages and follow the Template format.

Contact Information

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Conference Registration

Delegates

Author Registration Fee: 2400 Yuan RMB (400 USD)/person.

Extra Paper Charges for one more paper from the same first author: 2000 Yuan RMB (350

USD) /person. Student Registration Fees: 2000 Yuan RMB (350 USD) /person

Listener Registration Fee: 3800 Yuan RMB (600 USD)/person.

Remarks: Registration fees include conference materials, banquet, lunch, tea breaks, etc. All participants are responsible to their own accommodation.

Exhibitors

Exhibition Scope: Hot stamping products; Hot stamping system integrated production line; Equipment including heating equipment, transportation equipment, laser equipment, presses, robots, dies; System and accessories including 3D simulation software, robot system integration, sensor, vision system; Materials including high strength steel, coating materials, die steel Note: Please contact the conference organizing committee if the intention of cooperation.

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