

3RD EXECUTIVE SUMMIT - COST - AND RESOURCE-EFFICIENT LIGHTWEIGHTING FOR HOT FORMED AUTOMOTIVE PARTS 9th - 10th May, 2023 - PRESENTATIONS

DAY 1: WELCOME	
09:50 a.m	WELCOME AND INTRODUCTION TO THE EVENT Christian Kovacs (digicon Academy, Austria)
SESSION 1	Market-Requests, Requirements & Trends
10:00 a.m	KEYNOTE SPEECH Bernd Andersson (Austrian Embassy - Commercial Section, Delhi, India)
10:20 a.m	ENERGY AND RESOURCES EFFICIENCY IN TEMPERATURE SUPPORTED FORMING PROCESSES Frank Schieck (Fraunhofer IWU, Chemnitz, Germany)
SESSION 2	Heating & Materials
10:40 a.m	TWB APPLICATIONS OF HOT STAMPING MATERIAL FOR MULTI PART INTEGRATION, CRASH MANAGEMENT, AND WEIGHT SAVING Ashay Rajoria (ArcelorMittal Neel Tailored Blanks, Pune, India)
11:00 a.m	HOT STAMPING MATERIALS, LOCALIZATION STRATEGY, AND TIMELINES Kondapalli Venkat (ArcelorMittal Nippon Steel India, Delhi, India)
11:20 a.m	Break
11:50 a.m	RECENT DEVELOPMENTS IN FURNACE TECHNOLOGY OF STEEL PRESS HARDENING, TAILORED TEMPERING AND ALUMINIUM HOT FORMING Nagabhushanam Cherukupalli (EBNER India Pvt. Ltd. Andheri East Mumbai, India)
12:10 p.m	MANUFACTURING OF HOT FORMED PARTS WITH CONFIDENCE USING ESIPAM-STAMP, CHALLENGES AND SOME RECENT ADVANCES Adwait Vishwas Pande (ESI Software India Pvt Ltd., Pune, India)
12:30 p.m	Lunch Break
SESSION 3	Applied Research & Development
02:00 p.m	LATEST DEVELOPMENTS ON GAS SPRINGS FOR STAMPING APPLICATIONS Aitor Garcia (Azolgas, Vitoria, Spain)
02:20 p.m	GETTING THE BEST PROFIT WITH EFFICIENT PRESSES FOR PHS AND HOT FORMING OF ALUMINUM Manish Seth (FAGOR Arrasate, Mondragon, Spain)

02:40 p.m.	SENSOR AND DATA SYSTEMS FOR THE HOTFORMING INDUSTRY Christian Conrad (Fraunhofer IZFP, Saarbruecken, Germany)
03:00 p.m	DECARBONISATION & LIGHTWEIGHTING SOLUTIONS THROUGH HFQ Yogendra Joshi (Impression Technologies, Coventry, UK)
03:20 p.m	Break
SESSION 4	Engineering & Supporting Processes
03:50 p.m	RELIABLE INLINE MONITORING SYSTEMS FOR PROCESS-SAFE LINE OPERATION Michael Selent (SELMATEC, Scharnebeck, Germany)
04:10 p.m	IMPROVED OEE THROUGH INNOVATIVE COATED ROLLER TECHNOLOGY IN FURNACES OF PHS LINES Thorge Gasser (Saint-Gobain, Roedental, Germany)
04:30 p.m	SMART AND EFFICIENT LASER BASED SOLUTIONS FOR PRESS HARDENED STEEL INTERGRATION Priyank Joshi (TRUMPF India Pvt. Ltd., Pune, India)
SESSION 5	Engineering & Supporting Processes
04:50 p.m	ROBOTIC AND DIGITIZATION IN PROTOTYPE JOINING OF BATTERY TRAYS Raghavan Chellappan (Fronius India Pvt Ltd., Pune, India)
05:10 p.m	NEW HOT STAMPING PRODUCT & TECHNOLOGY DEVELOPMENTS TO SUPPORT INDIA TOWARDS THE ELECTRIFICATION Manuel Lopez Lage (GESTAMP, Barcelona, Spain)
05:30 p.m	SUMMARY
05:40 p.m	End of Day 1

3RD EXECUTIVE SUMMIT - COST - AND RESOURCE-EFFICIENT LIGHTWEIGHTING FOR HOT FORMED AUTOMOTIVE PARTS 9th - 10th May, 2023 - WORKSHOPS

DAY 2: WORKSHOPS	
08:30 a.m	<p>CHALLENGES & APPLICATIONS FOR PHS-TOOLING Frank Schieck (Fraunhofer IWU, Chemnitz, Germany)</p>
09:15 a.m	<p>INDIAN HOT FORMING SCENARIO AND CAPACITY PLANNING IN HOT FORMING TECHNOLOGY Sachin Nirgudkar (3iii, Mumbai, India)</p>
10:00 a.m	Break
10:30 a.m	<p>COMPETENCIES ASSURANCE ON PRESS LINES THROUGH MODULAR MACHINE VISION SYSTEMS Michael Selent (SELMATEC, Scharnebeck, Germany)</p>
11:15 a.m	<p>QUALITY ENHANCEMENT WITH RELIABLE NDE SYSTEMS Thorsten Mueller (Fraunhofer IZFP, Saarbruecken, Germany)</p>
12:00 p.m	Lunch Break
12:45 p.m	END OF DAY AT THE VENUE LOCATION

12:45 p.m	<p>LEAVING TO GESTAMP - EXCLUSIVE COMPANY VISIT</p> <p>The Gestamp, Pune company visit is strictly by invitation. Please respect.</p> <p>Gestamp Pune Automotive Pvt. Ltd Gat number 374,517-521,523 Takve Budruk, Taluka Maval Maharashtra 412106</p>
02:00 p.m	GESTAMP COMPANY VISIT
04:00 p.m	End of Day 2 - END OF EVENT



During the past 15 years, press hardening has become a fully established and recognized technology in both science and industry for the production of ultra-high-strength structural components. Specifically within the automotive industry. Apart from the obvious and valuable improvement in car performance, such as safety and lightweight design, the production process is also one focus of trends in technology development in the field of press hardening.

Owing to the additional process parameter of temperature, the energy and resource efficiency of such processes is one of the most important challenges. These include alternative process steps and process chains as well as zero defect manufacturing by intelligent process control. Alongside the high energy effort required for heating up the blanks to austenitization temperature; the production floor space requirement is also comparably high, particularly for heating devices. Due to the growing product variety in automobile production, combined with shorter product life cycles, the flexibility of production processes becomes more and more significant, which is also true for press hardening.

This includes production organization as well as flexibility of production devices. However, it has become clearly understood and obvious during these years of appliance in industrial scale, that press hardening is an inevitably knowledge-driven technology.

Without an accurate and clear understanding of the governing thermo-mechanical mechanisms, paired with systems and tool engineering, it is perhaps possible to move along to the “low-end” of technology but impossible to reach the “high-end”. The acquisition of substantial knowledge, therefore, constitutes the main “key” to be successful in the aforementioned sense.

The digicon Academy PHS-Trainings, each focusing on a particular aspect of technology, provides comprehensive access to valuable and extensive knowledge on hot sheet metal forming.

Dipl.-Ing. Frank Schieck

- born 1968
- 1984-1986 Professional training as a Toolmaker (VEB Formenbau Schwarzenberg)
- 1986-1989 Army service, training as Airplane Mechanic
- 1989-1990 General qualification for University entrance
- 1990-1995 Study of Mechanical Engineering at Chemnitz University
- 1995-1998 Engineering Office Richter in Berlin, Design and Planning Engineer
- 1998-2006 KUKA Werkzeugbau Schwarzenberg, Engineering & Development Manager Hydroforming Section
- since 2006 Fraunhofer Institute for Machine Tools and Forming Technology (IWU) in Chemnitz, various functions: Group leader Hydroforming, Head of Department Hydroforming and Basics, Division Director Sheet Metal Forming, today CBDO Tool Making
- Main working fields: Advanced Tool Concepts in Sheet Metal Forming Hot Stamping Hydroforming



Dipl.-Ing. Frank Schieck

ADDITIONAL TRAININGS

The additional trainings offer a wide range of suitable add on courses referring to the technology in complex metal forming, press hardening and hot stamping.

ONSITE EXECUTIVE TRAININGS

These trainings consist of concentrated and specific knowledge transfer in the form of seminar lectures and discussions, including joint field visits in the relevant fields (including the production, materials laboratory, receiving stock, finished goods, etc.).

ADVANCED TRAININGS

These trainings combine theoretical explanations of the respective core area with experimental internship in the laboratory and final analytical examination of generated press hardened parts.

FOUNDATION TRAINING

The range of this training begins with the stages of the art press hardening process, through solution-based problem solving approaches and finishes with new innovative ideas in the hot forming sector.



“We work continuously to set the standards in further education, to include the newest technology and in doing so retain the innovative ability for our partners.”

Christian Kovacs, Senior Manager Training Development, digicon Academy
www.digicon.cc

