**13th RoundTable**
SIMULATION IN METAL FORMING TECHNOLOGY
APRIL 23rd - 26th, 2012
WELCOME CONGRESS HOTEL
BAMBERG, GERMANY

Hosted by
simufact engineering gmbh
Tempowerkring 3
21079 Hamburg, Germany
www.simufact.com

Conference Secretariat
Mrs. Claudia Plutschinski
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Tempowerkring 3
21079 Hamburg, Germany

http://www.roundtable.simufact.eu
Dear customers and participants interested in metal forming technology,

We are pleased to invite you to the 13th International RoundTable ‘Simulation in Metal Forming Technology’, which will take place at the Welcome Hotel in Bamberg, Germany.

Our annual conference was first held in 1998 and has grown into an internationally attended top-class event.

During our previous RoundTable, we welcomed more than 150 national and international participants coming from Asia, America and Europe. The upcoming RoundTable and all subsequent ones will take place in parallel to the Hanover Fair. This will allow you to combine your participation in the RoundTable with a visit to the largest industrial fair worldwide.

The international orientation of the RoundTable gives our customers and interested visitors the opportunity to exchange their regional experiences, to discuss about the application of process simulation and to establish transnational contacts. The official languages of the conference are German and English, a simultaneous translation into both will be provided.

The RoundTable is exclusively dedicated to simulation of metal forming processes covering aspects for both, end user and management. All participants appreciate the high level of practical information and discussions. It will be accompanied by an extensive trade show which enables you to present your company to our customers – a professional audience of engineers and managers – and to establish new contacts or foster existing relationships.

The conference program is extended over two full days. It includes keynote lectures and presentations covering certain areas of manufacturing. Learn more about simulation of complete process chains which is indispensable for innovative engineering. In this context, a forming simulation may be based on the results of a casting simulation and be continued with the analysis of joining, for example: welding. Our trilogy Simufact.forming, Simufact.welding and Simufact.premap will accompany you through the simulation of an entire manufacturing process chain.

Your experience at the 13th RoundTable will be further enriched by our traditional evening events and an exciting plant tour about industrial application of manufacturing process simulation.

This year we are expecting around 200 participants coming from the manufacturing field worldwide.

An interesting social program will provide your accompanying person some unforgettable days in the wonderful region of Franconia.

We are looking forward to seeing you in Bamberg!
Look forward to interesting presentations in the fields of...

... Process Simulation
... Simulation and Project Management
... Hot Forging
... Cold Forming
... Rolling
... Sheet Metal Forming
... Open Die Forging, Radial Forging
... Mechanical Joining
... Microstructure Simulation / Material

Main Focus and Participants’ Profile of the Roundtable

The range of applications in metal forming simulation is wide: hot forging, cold forming, rolling, sheet metal forming as well as mechanical joining guarantee an interesting and informative agenda and an extensive trade show. Industrial users and academics can exchange their experiences and ideas on how to optimize their metal forming processes with the help of simulation software.

Following the official part of the conference, Simufact will be presenting a „Technical Session“, during which new functions and features of Simufact.forming will be discussed. The attendees will have the opportunity to meet the Simufact staff from our world-wide offices and to discuss development needs and industry trends.

Social Program for Accompanying Persons

Your accompanying person will enjoy an interesting program while you further will study at the conference.

There are many things to explore in the historical city of Bamberg, the surrounding countryside or the nearby city of Bayreuth.

Information on Bamberg

Bamberg – since 1993 world heritage site of the UNESCO world culture legacy – is a historical and at the same time vital town. Tradition and progress are combined in harmony, but Bamberg is not only a historical and universal architectural artwork, but with its 70,000 inhabitants the vital center of the region. Being a bishop-, justice-, gardening-, congress- and conference town and at the same time the center of Franconian beer brewery, Bamberg offers a high quality of life and is an important industrial location in Bavaria. Within a circle of less than 100 kilometers, there are further historical cities worth seeing.

Bamberg itself is also embedded in nature parks such as “Little Switzerland”, “Haßberge” and “Steigerwald” and invites nature loving people to nice excursions.

General Information

Conference fee: € 600,00
For further information about the RoundTable please visit our website: http://roundtable.simufact.eu/welcome.en.html

Conference Location

Welcome Hotel Bamberg, Mußstraße 7, 96047 Bamberg, Germany
phone: +49(0)951-7000-0

Hotel Accommodation

Following hotels nearby the conference location will offer a special rate when mentioning during your booking “13th RoundTable”:

- Welcome Kongresshotel Bamberg (conference hotel),
  phone: 0951/7000-0, Single room per night € 97,-- incl. breakfast
- Welcome Hotel Residenzschloss, phone: 0951-7000-0 (directly connected to the conference hotel)
  Single room per night € 119,-- incl. breakfast
- Best Western Hotel Bamberg, phone: 0951/510900
  Single room per night € 84,-- incl. breakfast
- Hotel Weierich, phone: 0951/91700777
  Single room per night € 54,--, double room for single use € 64,-- incl. breakfast

For accommodation according to your requirements please book as soon as possible.
TECHNOLOGY MEETS PROGRESS

With eight key trade shows, exhibitors and trade visitors from all around the world, the HANOVER FAIR emphasizes its unique position: Nowhere else you will find a similar presentation of world novelties and holistic solutions.

With its best record over ten years, the HANOVER FAIR 2011 set a clear signal for being the pulse of major developments of the future and an economy barometer for technology branches. More than 6500 companies from 65 countries had presented themselves at Hanover.

Combine your participation in the RoundTable with a visit to the HANOVER FAIR. Especially for our foreign guests, this is one more reason to travel to Germany.

The focus of this year’s Hanover Fair is the topic: „Subcontracting & Production Technology.“

Detailed information is available on http://www.hannovermesse.de/home

You will receive a free ticket for a one-day visit from us. Of course we will also be happy if you visited us at our booth E42 / 9 in Hall 4 (Common booth of the German Forging Association: Industrieverband Massivumformung IMU)!

At 5:00 p.m., a bus for the trip to Bamberg will be available for you. You receive a lunch package from us and a glass of beer for your well-being. In Bamberg, the day will end in a late “get together”.

SCIENCE MEETS INDUSTRY

Alternatively, you can participate in a “Scientific Workshop” which will be held especially for our academic customers and conference participants on Monday afternoon. During this event, which will take place at the conference hotel in Bamberg, innovative and research-related subjects will be discussed. Nevertheless we are looking forward to welcome participants coming from the industry.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Welcome and Introduction</td>
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<tr>
<td></td>
<td>Dr. Ralph Bernhardt, Director R&amp;D, simufact engineering gmbh</td>
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<tr>
<td>14:10</td>
<td>The Simufact R&amp;D Approach – a Link between Academic Research and Industrial Application</td>
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<td></td>
<td>Dr. Ralph Bernhardt, Director R&amp;D, simufact engineering gmbh</td>
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<tr>
<td>14:40</td>
<td>Simufact.forming – a Flexible Development Environment for Scientific Projects</td>
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<td></td>
<td>Dr. Hendrik Schafstall, CTO, simufact engineering gmbh</td>
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<tr>
<td>15:45</td>
<td>COFFEEBREAK / DISCUSSION</td>
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<tr>
<td>16:15</td>
<td>Application Papers from Scientific/ University Customers</td>
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<tr>
<td>18:00</td>
<td>END OF EVENT</td>
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</tbody>
</table>

The Scientific Workshop will be held in English language without simultaneous translation.

The day will end in a “get together” at 7.00 p.m.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Topic</th>
<th>Speaker/Author</th>
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</thead>
<tbody>
<tr>
<td>08:15</td>
<td>Welcome</td>
<td>Michael Wohlmuth, Managing Director, simufact engineering gmbh</td>
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<tr>
<td>08:30</td>
<td>Introduction Speech: Future Topics of Process Simulation*</td>
<td>Michael Wohlmuth, Managing Director, simufact engineering gmbh</td>
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<tr>
<td>08:55</td>
<td>Conference Keynote: Electro-Mobility – New Challenges for Forming Technology*</td>
<td>Prof. Dr. Ing. Dr. e. h. Rolf Geiger, geirol innovation (formerly Member of the Board ThyssenKrupp Presta AG, Liechtenstein)</td>
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<tr>
<td>09:35</td>
<td>Structural Analysis as Part of Simulating Process Chains</td>
<td>John Janevic, Vice President Strategic Operations, MSC Software Corporation</td>
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<tr>
<td>10:00</td>
<td>COFFEE BREAK</td>
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<tr>
<td>10:30</td>
<td>Challenges and Opportunities of the Indian Metal Forming Industry</td>
<td>Representative of Indian Forging Association AIFI</td>
</tr>
<tr>
<td>10:55</td>
<td>EcoForge: Resource-Efficient Process Chains for High Performance Parts*</td>
<td>Prof. Dr. Bernd-Arno Behrens, Head of Institute of Forming Technology and Machines (IFUM), Leibniz University Hanover</td>
</tr>
<tr>
<td>11:20</td>
<td>R&amp;D in new Context – the Campus Initiative of RWTH Aachen seen by an Industrial Partner*</td>
<td>Dr. Andreas Lieb, Head of R&amp;D, SMS Meer GmbH</td>
</tr>
<tr>
<td>11:45</td>
<td>Role of Optimization and Simulation in Designing Complex Metal Forming Processes</td>
<td>Dr. R. Ryan Vallance, CTO, nanoPrecision Products Inc.</td>
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<tr>
<td>12:10</td>
<td>High Performance Computing with Intel Technology*</td>
<td>Dr. Ullrich Becker-Lemgau, Intel GmbH</td>
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<tr>
<td>12:30</td>
<td>LUNCH BREAK</td>
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<tr>
<td>14:00</td>
<td>Forging and More – Future Demands on Process Chain Simulation*</td>
<td>Dr. Ralph Bernhardt, Director R&amp;D, simufact engineering gmbh</td>
</tr>
<tr>
<td>14:30</td>
<td>Calibration of Input Parameters for Die-Forging*</td>
<td>Jens Mohr, Buderus Edelstahl Schmiedetechnik GmbH</td>
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<tr>
<td>14:55</td>
<td>Influence of Lubrications on the Friction Coefficient for the Simulation of Hot Forging Processes*</td>
<td>Deli Housein, VDEh-Betriebsforschungsinstitut GmbH</td>
</tr>
<tr>
<td>15:20</td>
<td>Anisotropic Damage Evolution of Tools During Forging Processes</td>
<td>Prof. Dr. Kunio Hayakawa, Associate Professor, Faculty of Mechanical Engineering, Shizuoka University, Japan</td>
</tr>
<tr>
<td>15:45</td>
<td>COFFEE BREAK, EXHIBITION</td>
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<tr>
<td>16:15</td>
<td>Session Keynote: JMatPro - an Innovative Approach for Supplying Material Data for Metal Forming Simulation with Simufact.forming</td>
<td>Jean-Philippe Schille, Managing Director, Sente Software Ltd.</td>
</tr>
<tr>
<td>16:45</td>
<td>Advanced Metal Properties Database for CAE and Metal Forming Simulations</td>
<td>Prof. Dr. Viktor Pocajt, Managing Director, CEO, Key to Metal AG</td>
</tr>
<tr>
<td>17:10</td>
<td>Concepts on Integrated Modeling of Microstructure and Yield Stress Evolution in the Simulation of Hot Forging Processes*</td>
<td>Dr. Markus Bambach, Prof. Dr. Gerhard Hirt, Institut für Bildsame Formgebung der (IBF) RWTH Aachen</td>
</tr>
<tr>
<td>17:35</td>
<td>Simufact.premap – More than just Heat Treatment*</td>
<td>Dr. Gabriel Mc Bain, General Manager Simufact India, simufact engineering gmbh</td>
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<tr>
<td>18:00</td>
<td>EXHIBITION / POSTER SESSION</td>
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<tr>
<td>19:30</td>
<td>Evening event at the “Haas Säle”</td>
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</table>

* German papers: simultaneous translation into English is provided
## Session: Cold Forming

### 08:15
**Session Keynote:** The Technical Trend and Future of the Simulation of the Precision Forging in Japan  
Shinichi Hamaya, Manager Development Section, NICHIDAI Co. LTD.

### 08:45
**Friction in Cold Forming**  
Dr. Jörg Stahlmann, Concept Industrie Consult GmbH

### 09:10
**Surface Compaction of Sintered Metal**  
Michael Hirsch, Marcel Werner, Profiroll Technologies GmbH

### 09:35
**Latest Approach in Thread Rolling Simulation with Simufact.forming**  
Narita Shinobu, NTT DATA ENGINEERING SYSTEMS CORPORATION

### 10:00
Coffee break / Exhibition

## Session: Sheet Metal Forming

### 10:30
**Session Keynote:** Virtual Conditioning of Progressive Dies - Increasing Productivity and Quality  
Erich Köhnert, Manager DIE Design, TE Connectivity

### 11:00
**Simulation of a Sheet Forming Process using a Lemaitre Damage Model**  
Aleksandr Romanov, Vladimir Skorokhod, Techprom Closed-joint Stock Company

### 11:25
**Application Paper Mechanical Joining**  
N.N

### 11:50
**Innovative Solutions in Simulation of Press Hardening with Simufact.forming 11.0**  
Dr. Ingo Neubauer, Branch Manager Baunatal, simufact engineering gmbh

### 12:15
Lunch break

## Session: Incremental Forming Technology

### 13:35
**Session Keynote:** Ring Rolling of High Performance Materials – Possibilities of Simulation  
Dr. Philipp Olle, Manager, FEM-Calculation and Forming Simulation, Otto Fuchs KG

## Technical Session

### 15:50
**Best Paper Award**  
Michael Wohlmuth, Managing Director, simufact engineering gmbh

### 16:00
**Simufact.welding – A Solution in the Simulation of Process Chains**  
Dr. Jens Sakkietibutra, simufact engineering gmbh

### 16:25
**Roadmap Simufact.forming**  
Dr. Hendrik Schafstall, Managing Director, simufact engineering gmbh

### 16:50
**Innovations in Simufact.forming 11.0**  
Dr. Hendrik Schafstall, Managing Director, simufact engineering gmbh

### 18:00
End of 13th RoundTable

### 19:30
Evening event at Burg Altenburg

*German papers: simultaneous translation into English is provided*
VISIT OF CHAIR OF MANUFACTURING TECHNOLOGY (LFT) OF THE UNIVERSITY ERLANGEN-NÜRNBERG

Mrs. Prof. Dr.-Ing. habil. Marion Merklein.

Survey of the laboratory and the test area, presentation of the development fields of the chair
http://www.lft.uni-erlangen.de/

CLOSED EXPERIENCE OF THE AUDI PRODUCTION PROCESS

Plant tour: ‘Production Compact‘

You will learn things worth knowing about all European Audi locations and about the head office Ingolstadt. At the press plant you will sense the pressing power of the forming dies, at the car body construction you will watch the fascinating ballet of welding robots. You will learn about joining techniques and will witness the “marriage” – when finally the driving platform and car body will be joined together. The different testing stations will complete the plant tour.
REGISTRATION for the 13th RoundTable.
23rd–26th April, 2012 at the WELCOME Kongress Hotel, Mußstraße 7, 96047 Bamberg. Please fill out the form and send it via
Fax +49 (0)40-790162-22 or as a scan to: roundtable@simufact.de

☐ Yes, I want to be registered in the 13th RoundTable with ______ persons.
The conference fee is € 600,00 per person.

☐ Yes, I want to be registered in the 13th RoundTable as an academic with ______ persons. The conference fee is € 300,00 per person.

☐ I will attend one of the pre-events on April 23rd, 2012.
☐ Hanover Fair (tickets/voucher code will be sent)
☐ Scientific Workshop (beginning at 2 pm).

☐ Yes, I want to attend the following evening presentations:
☐ Evening event at the “Haas Säle” on April 24th, 2012.
☐ Evening event at Burg Altenburg on April 25th, 2012.

☐ Yes, I want to participate in the plant tour on April 26th, 2012.

☐ I’m interested in the social programme for accompanying persons.

(Company / Billing Address)

(Title, Family Name, Surname)

(Street, Number)

(Country, ZIP Code, City)

(Phone / Fax)

(E-mail)

(Date, Signature)

Further information will be sent to you – together with a letter of confirmation and the invoice - after your registration. In case of questions please do not hesitate to contact us by phone: +49(0)40 – 790162-0.

Terms of Payment in Case of Cancellation:
Please note that our invoice is due for payment within 14 days after reception. All prices are net prices exclusive VAT. You will receive our invoice together with the letter of confirmation.

In case of cancellation up to 10 days prior to the event, we reserve the right to charge 75% of the conference fee. Cancellations after that date as well as non-appearance will be charged at the full rate. Of course it is possible to send a replacement from your company.

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