

Venue and Accommodation

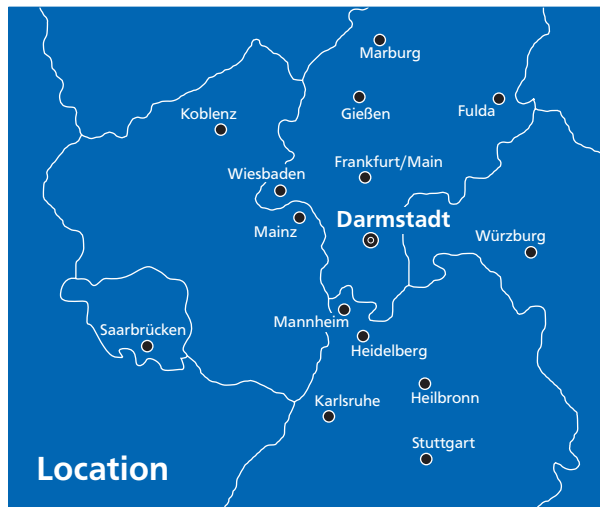
Darmstadt

Throughout the 19th and 20th centuries, Darmstadt became home to many technology companies and research institutes. The Technische Universität Darmstadt is one of the most important technical universities in Germany and is well-known for its research and teaching in the Electrical, Mechanical and Civil Engineering disciplines. Darmstadt's significance as a city of culture is mainly based on the Artists' Colony founded in 1901 by the city's last grand duke, Ernst Ludwig.

Darmstadt is located in the southern part of the Rhine Main Area and only 20 minutes away from Frankfurt International Airport. Many excellent hotels are available at the city center.

Darmstadtium

The Darmstadtium is a congress center created with the primary aim of serving the innovative powers of science and business as a meeting place for the exchange of ideas. The name Darmstadtium is derived from the chemical element "darmstadtium", which was created for the first time in 1994 at the GSI Centre for Heavy Ion Research in Darmstadt.



Important Dates

Scientific Papers

August 30, 2013

September 27, 2013

January 24, 2014

Abstract submission due

Acknowledgement of acceptance

Paper submission due

Industrial Presentations

October 31, 2013

November 28, 2013

February 28, 2014

Abstract submission due

Acknowledgement of acceptance

Presentation submission due

Registration Fees

Participants

650,- EUR per person

Till march 31, 2014

750,- EUR per person

After march 31, 2014

Special Industrial Package

A special industrial package is offered including one attendance and one exhibition stand.

Contact



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In collaboration with:



Technische Universität Darmstadt
Institute for Production Engineering
and Forming Machines
Petersenstraße 30 | 64287 Darmstadt
Germany

First Announcement | Call for Papers



The logo for the International Conference on Tribology in Manufacturing Processes & Joining by Plastic Deformation (ICTMP). It features the letters "ICTMP" in a bold, black font, with a stylized graphic element above the letters.

6th

International Conference
on Tribology in Manufacturing
Processes & Joining
by Plastic Deformation

June 22–24, 2014
Darmstadt, Germany

www.ictmp2014.com

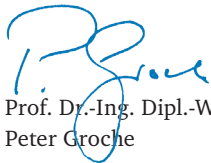
Preface

The aim of the conference is to present the latest developments in the research of tribological aspects in manufacturing processes. Therefore, subjects like lubrication, surface treatment, simulation or wear phenomena are in the scope of interest. Furthermore, the conference will focus on the integration of joining techniques into forming processes. The combination of joining and forming operations offers a favorable material utilization along with a high productivity. Since many researchers contributed to that field of research, the conference aims at summarizing recent developments. In addition to insights into current research in the field of tribology, the presentations include practical guidelines for solving tribological questions in an industrial environment.

Keynote speeches of Prof. Niels Bay and Prof. Ken-ichiro Mori will introduce the conference topic. Three parallel sessions on two days, offer the possibility to gain a comprehensive look at a variety of current research results. Altogether, the "6th International Conference on Tribology in Manufacturing Processes & Joining by Plastic Deformation" provides an international forum for scientists and practicing engineers from different disciplines to exchange their ideas and experiences.

On June 22, we invite all participants to a welcome reception. During the welcome reception and the evening event, you will have the opportunity to actively contribute to discussions with your colleagues in a relaxed atmosphere.

I am looking forward to welcoming you on June 22–24, 2014 in Darmstadt.



Prof. Dr.-Ing. Dipl.-Wirtsch.-Ing.
Peter Groche

Conference Topic

The scope of this conference covers tribological aspects in the manufacturing of all types of materials, at all lifecycle stages:

- Elaboration: granulation of polymers, lubrication of continuous casting
- Forming: rolling, forging and extrusion, stamping and deep drawing, blanking, wire drawing, polymer extrusion, P/M and ceramic compaction
- Cutting processes and cutting tool technology: machining, milling, drilling, tapping
- Finishing: grinding and fine grinding, polishing, lapping abrasive jet machining, ultrasonic machining

Papers are welcome on all tribological aspects of manufacturing processes:

- Friction, lubrication and wear phenomena
- New lubricants, tool materials, coatings and surface engineering
- Tribological effects on process modeling and applied plasticity
- Environmental issues: new user- and environment-friendly lubricants and coatings

One special focus of this conference will be joining by plastic deformation and related topics:

- Joining process utilizing deterministic plastic flow
 - Layout methods for joining processes and joint properties
 - Design criteria for tools and part connections
 - Joining mechanisms such as form-, force- and material-closed joints
 - Surface engineering related to joining processes
 - Simulation of joining processes especially for multi material combinations
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Call for Papers

Abstract Submission

All abstracts relating to the mentioned topics are welcome. Please submit your abstracts limited to 3000 characters online at www.ictmp2014.com until August 30, 2013.

Paper Submission

All accepted papers will be published in the proceedings of the 6th ICTMP after having been reviewed by the members of the scientific committee. Selected papers will be published in a special issue of the journal "Materials Science and Engineering Technology". All authors contributing to the field of joining by forming are heartily invited also to participate in the special issue of the Journal of Materials Processing Technology "Joining by forming". For further information on this special issue please visit: www.ictmp2014.com

Industrial Presentation

One session on the conference's second day will specially focus on tribological topics in industrial processes. Therefore, attendants working in the industry are invited to present current developments regarding tribological aspects in a manufacturing process. These presentations will also be published with a short summary in the conferences proceedings.

Scientific Committee

Chairman

P. Groche, Germany

Members

A. Azushima, Japan	N. Bay, Denmark
S. Bruschi, Italy	B. Denkena, Germany
K. Dohda, USA	L. Dubar, France
C. Karadogan, Turkey	K. Kitamura, Japan
R. Kolleck, Austria	M. Liewald, Germany
P. Montmitonnet, France	K. Mori, Japan
G. Ngaile, USA	S. Schmid, USA
S. Stupkiewicz, Poland	E. Tekkaya, Germany
V. Premanond, Thailand	N. Mahayotsanun, Thailand
