



sponsored

ICNFT 2018

5th International Conference
on New Forming Technology

SEPTEMBER 18-21, 2018
BREMEN, GERMANY

CALL FOR PAPERS



WWW.ICNFT2018.COM

WELCOME TO BREMEN

The Free Hanseatic City of Bremen is an international seaport and trading center close to the North Sea and the leading location of industry in the northwest of Germany. Here, a multifaceted science landscape has developed, which is distinguished by the close co-operation between universities and research institutes. Bremen is well known worldwide for the famous Bremen Town Musicians fairy tale. The total population of the city of Bremen is 550,000, making it the tenth largest city in Germany. Bremen's remarkable historic city centre is a world cultural heritage site.

Hotels and tourist information:

www.bremen-tourism.de



THE ICNFT

Since 2004 the **International Conference on New Forming Technology (ICNFT)** is an inspiring forum for researchers and professional practitioners to discuss aspects of leading-edge novel forming technologies. The focus of the CIRP sponsored conference is on research, development and applications of new forming technology as well as on latest achievements in forming advanced high-performance materials designed to meet the needs of manufacturing industry in present and future years.

In 2018 special sessions focussing on micro cold forming and dry metal forming are offered. A guided tour to Bremen's University of Excellence and its Research Institutes and an industrial exhibition are part of the conference.

The ICNFT gives you the opportunity to exchange thoughts and opinions on technological trends and future challenges in the wonderful surrounding of Bremen/Germany.

HISTORY OF ICNFT

2004: Harbin, China

2007: Bremen, Germany

2012: Harbin, China

2015: Glasgow, Scotland, UK

2018: Bremen, Germany

CONFERENCE CHAIRS



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Frank Vollertsen,
Germany



Co-Chair

Shijan J. Yuan,
China



Co-Chair

Trevor A. Dean,
UK



Co-Chair

Yi Qin,
UK

ORGANIZING INSTITUTES



BIAS - Bremer Institut für angewandte
Strahltechnik GmbH, Germany



Harbin Institute of Technology, China



University of Birmingham, UK



University of Strathclyde, UK

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M. Zäh, Germany

HIGHLIGHTS

- Prestigious keynote speakers including:



Dorel Banabic
Technical University of Cluj-Napoca
Romania



Jian Cao,
Northwestern University,
USA



Ming Wang Fu,
The Hong Kong Polytechnic University
China



Michael Schmidt,
University of Erlangen,
Germany

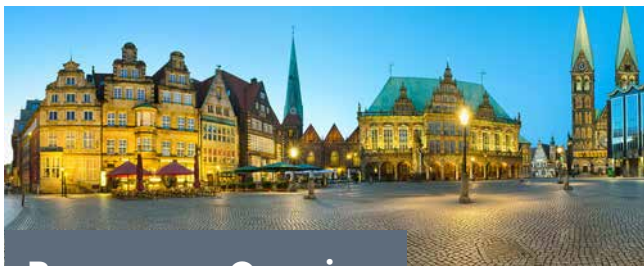


Erman Tekkaya,
University of Dortmund,
Germany



Ming Yang,
Tokyo Metropolitan University,
Japan

- Leading research on new forming technologies
- **Special session blocks:**
 - Micro Cold Forming (incl. Final Colloquium of Collaborative Research Center SFB 747)
 - Dry Metal Forming (incl. intermediate Colloquium of Priority Programme SPP 1676)
 - Processes and Materials (session dedicated to the 60th birthday of Prof. Vollertsen)
- Excursions to research institutes in Bremen
- Industrial exhibition



Programme Overview

18 SEPTEMBER

touristic programme*
technical tours*
eve registration

19 SEPTEMBER

registration
keynotes
poster sessions
parallel oral sessions
birthday session Prof. Vollertsen (60)
riverboat cruise

20 SEPTEMBER

lab tour, visit of research institutes
poster sessions
parallel oral sessions
special sessions Micro Cold Forming
exhibitor evening

21 SEPTEMBER

poster sessions
parallel oral sessions
special sessions Dry Metal Forming
best paper award
touristic programme*

* offered by Bremer Touristik-Zentrale, separate booking

CALL FOR PAPERS - TOPICS

Forming Technologies:

bending · bulk metal forming · cold forming · cutting/shear cutting · deep drawing · dry metal forming · electroforming · extrusion · forging · free forming · hot forming · hydroforming · incremental sheet forming · laser assisted forming · micro forming · rolling/roll-forming · sheet metal forming · powder sintering

Modeling and Design

Equipment and Future Factories

Tool Design and Tooling Techniques

Tribology

Quality Control

Materials:

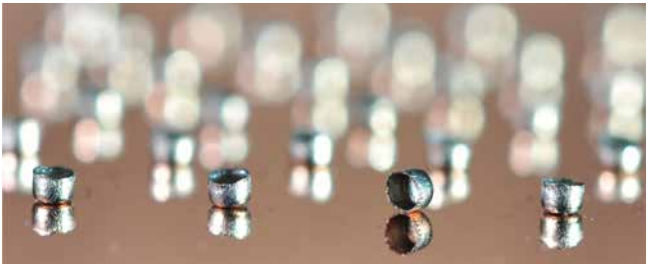
steel · light metals (Al, Ti, Mg, Ni-based alloys) · metal matrix composite · non ferrous metals · ceramic · porous metals and structures · composite · powder polymer · other new materials

Materials and Characterization

Heat Treatment

CALL FOR PAPERS - TIMELINE

Abstract Deadline:	Oct 31, 2017
Notification Abstract:	Nov 30, 2017
Deadline Full Paper:	Feb 01, 2018
Notification Full Paper:	Mar 15, 2018
Deadline Full Paper final:	May 15, 2018



PUBLICATION

All papers will be reviewed by the scientific committee according to the rules of CIRP and published by EDP Sciences, through the MATEC Web of Conferences (Open Access publication). The papers will be indexed in Google Scholar, CAS, Compendex, Inspec, DOAJ, CPCI (Web of Science) and Scopus.

DETAILED INFORMATION AND REGISTRATION

www.icnft2018.com

SPECIAL COLLOQUIA



Micro Cold Forming Final Colloquium Sept 20

The Collaborative Research Center „Micro Cold Forming“ (SFB 747) is a basic research project financed by the Deutsche Forschungsgemeinschaft (DFG). It is located at University of Bremen since 2007. Central concern is the provision of methods and processes for a systematic design of reliable micro cold forming processes of metallic micro components smaller than 1 mm in two dimensions, produced with lot sizes greater than one million pieces.



Dry Metal Forming Intermediate Colloquium Sept 21

Dry Metal Forming is a process where a work piece leaves the forming tool without the necessity of cleaning or drying before subsequent production steps such as coating or joining processes. To contribute to the goal of a lubricant-free press plant, the DFG-funded priority programme „Dry Metal Forming“ focuses on the development of new dry forming processes and the adaptation of relevant technologies. It has currently 11 ongoing projects involving a total of 25 participating research institutions from all over Germany.

VENUE

ICNFT September 18-21, 2018

RadissonBlu Hotel Bremen
Böttcherstr. 2
28195 Bremen
Germany

www.radissonblu.com/hotel-bremen



CONFERENCE FEE

690,- Euro incl. VAT

REGISTRATION

www.icnft2018.com/register

CONTACT

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LOCAL ORGANIZING COMMITTEE

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