

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.

The Free Hanseatic City of Bremen is the smallest independent state of the Federal Republic of Germany, consisting of the cities of Bremen and Bremerhaven. The total population 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.

Further, close to Bremen (appx. 130 km) the Trade Show HANOVER MESSE is taking place from April 04-11, 2014. As one of the world most important technology exhibitions it is ideal to complete your stay in the north of Germany.



Venue

BIAS – Bremer Institut für angewandte Strahltechnik GmbH
LION
Klagenfurter Straße 5
28359 Bremen, Germany
www.bias.de

This new facility is within walking distance to the venue of the previous IWOTE.

Contact

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Travel

Bremen is easily accessible by air, rail and road.

- Airport Bremen: only 11 km from BIAS, linking Bremen to major hubs in Europe
- Train Station: only 4 km from BIAS, linking Bremen to all major cities in Germany
- Access by car: Bremen is conveniently served by Motorways A1 and A27, approx. one hour from Hamburg and Hanover

Sponsored and supported by



IWOTE'14

2nd Announcement and
Call for Papers

4th International Workshop on
Thermal Forming and
Welding Distortion

April 09-10, 2014
Bremen, Germany



IWOTE'14

4th International Workshop on Thermal Forming and Welding Distortion

Introduction

Increasing economic pressure and pursuit for resource-saving complex constructions generates a higher demand on the manufacturing, particularly welding and joining technologies. A main goal of the last IWOTE has been the achievement of a profound understanding of the mechanisms that lead to thermal deformation and residual stresses and the development of strategies which prevent and control these effects. Thereby the gathered knowledge and experience in welding, especially including the challenges of distortion prevention, has been joined with investigations of thermal forming which focuses on systematic usage of thermal induced deformations.

Recent years have seen further development and establishment of available material models, accumulated findings regarding the formation of distortion and residual stresses, improved measuring and analysis techniques as well as increase of usable computational power. For the next IWOTE the focus shall be placed on mastery of welding distortion and specific use of thermally induced strains for thermal forming for sophisticated application oriented structures.

Objectives

The workshop is intended to promote the exchange of experience at international level and foster the dialogue between science and industry, related to the shape changing phenomena in thermal forming and welding.

Who should attend?

Young scientists, senior researchers and industrial technology managers are invited to discuss latest results from basic and applied research in the field of thermal induced shape changes, and to stimulate the diffusion of this knowledge into industrial application.

Chairman

Prof. Dr.-Ing. Frank Vollertsen, Germany

International Advisory Committee

Prof. Joost R. Dufloy, Belgium	Prof. Andreas Otto, Austria
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Prof. Naoki Osawa, Japan	

Topics/Submission of papers

Authors wishing to submit a paper are invited to send a short abstract to the Conference Office, preferably by e-mail, including title, presenting author as well as a list of co-authors with affiliations and addresses, telephone and fax numbers and e-mail addresses. The abstract should be approximately one page in length.

Topics include but are not limited to:

- (on-line) measurement of thermal stresses, strains and residual stresses
- simulation models which account for microstructural changes
- experimental investigation of very thick (> 50 mm) and thin (< 50 μ m) sheets
- minimization of weld distortions in commercial production processes

All papers will be published in the proceedings of the workshop. The conference language will be English.

Schedule

January 05, 2014	Submission of abstract
January 10, 2014	Notification of acceptance
January 31, 2014	Submission of paper
April 09-10, 2014	Workshop

Reply form for IWOTE'14

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For more information, please return this form.

- I plan to present a paper
- I plan to attend the workshop
- I would like to receive further information

Name

Surname

Title

Institution

Address

City, ZIP

Phone

FAX

E-Mail