

IWOTE'11

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 HANOVER MESSE is taking place April 04-08, 2011. As one of the world most important technology exhibitions it is ideal to complete your stay in the north of Germany.



www.bremen-tourism.de

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Venue

Ringhotel Munte am Stadtwald
Parkallee 299
D-28213 Bremen
T: +49-421-2202-0
F: +49-421-2202-609
info@hotel-munte.de
www.hotel-munte.de

Further Details

Further information can be found under: www.bias.de/iwote11

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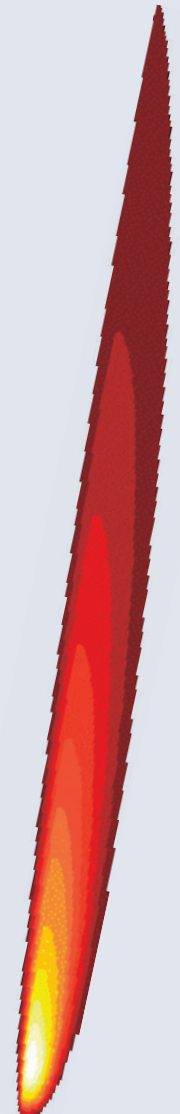
Contact

BIAS Bremer Institut für
angewandte Strahltechnik GmbH
Dipl.-Ing. Jens Sakkietitbutra
Klagenfurter Str. 2
D-28359 Bremen
T: +49-421-218-5020
F: +49-421-218-5063
iwote11@bias.de

1st Announcement and
Call for Papers

International Workshop
on Thermal Forming and
Welding Distortion

April 06-07, 2011
Bremen, Germany



IWOTE'11

3rd International Workshop on Thermal Forming and Welding Distortion



Background

Nowadays, welding is a widespread and highly developed joining method. As an unwanted side effect, heating and melting induce thermal strains and alter certain material properties. This leads to distortions and high residual stresses which should obviously be kept to a minimum. Therefore, various strategies are being developed in order to minimize distortions. In contrast to welding, the aim of thermal forming is to deliberately use thermal strains to generate predicted shapes. In thermal forming well-defined heat sources offer a reproducible heat input into a highly localized area. Unfortunately, the process parameters used are often based on empirical data and depend on the experience of the workers. Therefore, the current research is focused on the prediction of strains, heating strategies and path planning to master the process.

To exchange knowledge and share experiences, the first International Workshop of Thermal Forming - the IWOTE'05 - was created in 2005. Due to the great response, a second open workshop - the IWOTE'08 - was held in Bremen. The scope of the 2nd IWOTE was extended to combine the knowledge and know-how of the research on thermal forming and welding distortion. Following this idea, at the 3rd IWOTE current shared questions concerning e.g. quasi-static process behaviour, the analysis of large structures, size effects, the influence of the material strength and hardening behaviour and fast analysis methods will be discussed.

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.

Organizing Committee

Prof. Dr.-Ing. Frank Vollertsen, Germany
Dipl.-Ing. Jens Sakkietitubtra, Germany

Travel

Bremen and the conference venue are easily accessible by air, rail and road.

Airport Bremen: only 11 km from the venue, linking Bremen to major hubs in Europe
Train Station: only 4 km from the venue, 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

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 and list of co-authors with affiliations and addresses, telephone and fax numbers and e-mail addresses.

Topics include but are not limited to: experimental and theoretical research on mechanisms of thermal induced shape changing with various heat sources, process modelling and simulation, research directed to specific applications, path planning, thermal forming and minimization of weld distortions in commercial production processes.

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

Schedule

November 05, 2010 Submission of abstract
November 26, 2010 Notification of acceptance
January 21, 2011 Submission of full manuscript
April 06-07, 2011 Workshop

IWOTE'11

Reply

FAX +49-421-218-5063

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

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