

IMPORTANT DATES AND DEADLINES

- Registration starts 1 January 2011
- Submission of abstracts 31 January 2011
- Notification of authors 28 February 2011
- Full papers 12 May 2011

VENUE

The workshop will be held at Ludwig Erhard Conference Hall, BAM Federal Institute for Materials Research and Testing, Berlin, Germany. For further information on BAM and Berlin please check www.bam.de/en/index.htm www.berlin.de

CONTACT

Dr.-Ing. Hellmuth Klingelhöffer (Chairman)
Phone: +49 30 8104 1521

Mrs. Anja Archie (Secretary)
Phone: +49 30 8104 1529
Fax: +49 30 8104 1527

BAM Federal Institute for Materials Research and Testing
Division 5.2 - Mechanical Behaviour of Materials
Unter den Eichen 87
12205 Berlin
Germany
e-mail: tmfconf@bam.de
website: www.tmf-workshop.bam.de

ARRIVAL INFORMATION

Berlin offers excellent traffic connections by plane and railway.

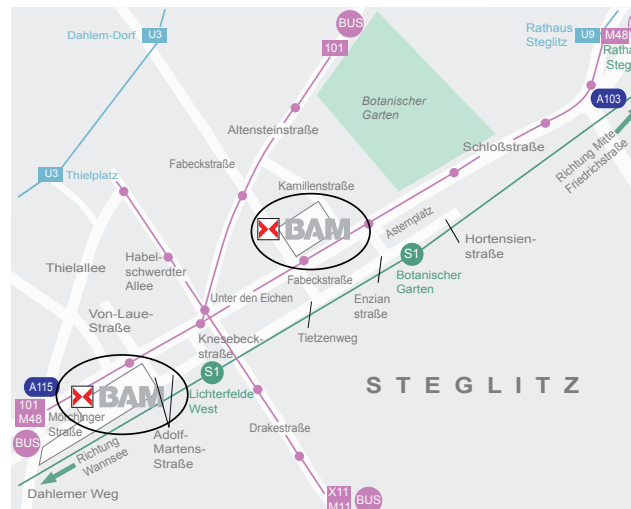
Arrival by plane:

Nearest airports are Berlin-Tegel (TXL) or Berlin-Schönefeld (SXF).

Arrival by train:

Please use the express train connections to Berlin Hauptbahnhof (central station).

HOW TO REACH BAM



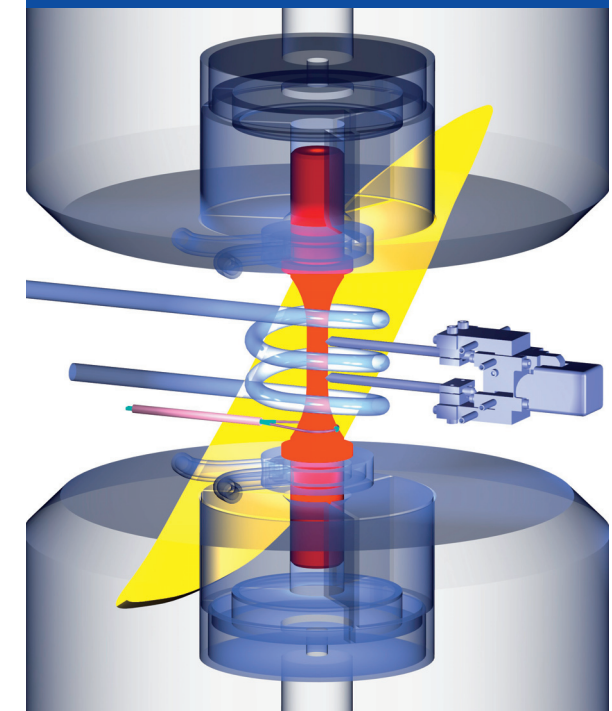
The area map shows you how to reach BAM Headquarters by public transport. BAM can be reached by bus (station "Von-Laue-Straße", approx. 1 minute walking distance) or the urban railway S-Bahn (station "S Lichterfelde West", approx. 10 minutes walking distance). For more information please visit: www.fahrinfo-berlin.de
As destination, please enter BAM's address "Unter den Eichen 87".



TMF-Workshop 2011

2nd Circular and Call for Papers

2. INTERNATIONAL WORKSHOP ON THERMO-MECHANICAL FATIGUE



12 May 2011 – 13 May 2011
BAM Federal Institute
for Materials Research and Testing
Berlin, Germany

ANNOUNCEMENT

Components in the Aerospace, Power and Automotive engineering sectors are frequently subjected to cyclic stresses induced by thermal fluctuations and mechanical loads. For the design of such components reliable material property data are required which need to be acquired using well accepted and reproducible testing procedures.

The first TMF-Workshop was held at BAM in 2005 on the occasion of the development of a European Code of Practice for TMF testing. It brought together approx. 70 European and international experts.

All workshop papers have been published in *International Journal of Fatigue*.

The intention of the present event is to continue this exchange of knowledge. It provides a forum to present and discuss recent developments in the field of thermo-mechanical fatigue.

WHO SHOULD ATTEND?

The workshop is aimed at engineers, scientists and technical staff of research institutes and industry who have an interest in the numerous aspects of thermo-mechanical fatigue.

The workshop language will be English.

TOPICS

Topics of the workshop will include:

- TMF of steels, aluminium-, titanium-, nickel base and other alloys
- Cyclic stress strain behaviour in TMF
- TMF life
- Comparison of TMF and LCF life
- Crack initiation, crack growth measurement in TMF
- TMF and superimposed HCF
- TMF and creep interactions
- TMF and environmental interactions
- Multiaxial TMF
- TMF of coated materials
- TMF and thermal fatigue of components
- Service-cycle TMF testing
- TMF damage mechanisms
- Interpretation of TMF data
- TMF models
- TMF testing procedures and standardisation
- Applications

WORKSHOP COMMITTEE

H. Klingelhöffer, BAM, Berlin, D (Chairman)
E. Affeldt, MTU Aero Engines, Munich, D
T. Beck, FZ Jülich, D
P. Hähner, DG-JRC, Petten, NL
S. Holdsworth, EMPA, Dübendorf, CH
J. Olbricht, BAM, Berlin, D
L. Remy, ENSMP, Evry, F

The workshop is organised by HTMTC (High Temperature Mechanical Testing Committee, ESIS TC11) in collaboration with BAM. More information on HTMTC and on previous meetings organised by HTMTC can be found here:

www.htmtc.com
www.structuralintegrity.eu

SUBMISSION OF ABSTRACTS

Attendees who wish to give an oral or poster presentation are invited to submit a one-page abstract (A4) containing title, list of authors and the outline of the intended contribution until 31 January 2011. One figure may be included. Please use the abstract template provided on the workshop's website www.tmf-workshop.bam.de.

Authors will be notified of abstract acceptance until 28 February 2011. A book of abstracts will be available during the workshop.

WORKSHOP PROCEEDINGS

The proceedings of this workshop are intended to be published in two refereed journals, *Materials at High Temperatures* and *International Journal of Fatigue*. Full papers will be due at the workshop. Detailed guidelines on the preparation of manuscripts will be provided together with the abstract acceptance.

REGISTRATION

The (binding) registration starts on 1 January 2011. To register, please follow the link "registration" on the workshop's website www.tmf-workshop.bam.de to complete your registration form.

The registration fee is 300 € and should be remitted upon receipt of the registration confirmation and invoice. It includes refreshments, buffet dinner, copies of book of abstracts and conference proceedings.