

Scope of the Conference

The great majority of solid state materials – natural as well as man-made ones – have a polycrystalline structure that is characterized by the size, shape, arrangement and orientation of the constituting crystals. Crystal orientation is particularly important due to the anisotropy of many physical properties. Therefore, the study of preferred crystal orientations, or crystallographic texture, is of major interest in research and industrial application.

Since *ITAP-1*, held in Clausthal (Germany) in 1997, and *ITAP-2*, held in Metz (France) in 2004, noticeable advancements in experimental as well as theoretical methods have been made.

ITAP-3 will be held in Göttingen (Germany) on 23-25 September 2009 and supplemented by *Pre-Conference Workshops* on 21-22 September 2009. The conference will provide a forum for authoritative presentations and high-level discussions. All aspects of texture phenomena in conventional and advanced materials are addressed, including metals, ceramics, polymers, composites, thin films, nanocrystalline materials, and rocks. Some topics are:

Advances in Experimental Methods

- Measurement of local texture
 - Electron diffraction in the SEM (EBSD) and TEM (SAD, TKP)
 - EBSD (BKD) and 3D analysis with FIB, TKP, SAD
 - Spatially resolved X-ray and synchrotron diffraction methods
 - Grazing incidence diffraction for depth profiling
- Measurement of global texture
 - Synchrotron radiation and hard X-rays
 - New methods of X-ray texture analysis
 - Neutron diffraction texture measurement
 - Alternative techniques.

Quantitative Methods

- Calculation of textural quantities (ODF, MODF; characterization of grain and phase boundaries)
- Orientation stereology
- Mathematical modeling of texture formation and anisotropic properties.

Typical applications

- Casting and deformation textures
- Texture transformation by phase change
- Recrystallization and grain growth
- Textures in thin films and coatings
- Textures in biomaterials
- Hexagonal alloys and low-symmetry materials
- Anisotropic properties related to the bulk, grain or grain boundary
- Residual stresses and texture
- Phase and Rietveld analysis.

Texture Analysis in Geology

- Textures and anisotropy of rocks.

The *pre-conference workshops* will give introductions to electron, X-ray, neutron and synchrotron diffraction in texture analysis, in particular in EBSD techniques and ODF calculation.

Conference Language

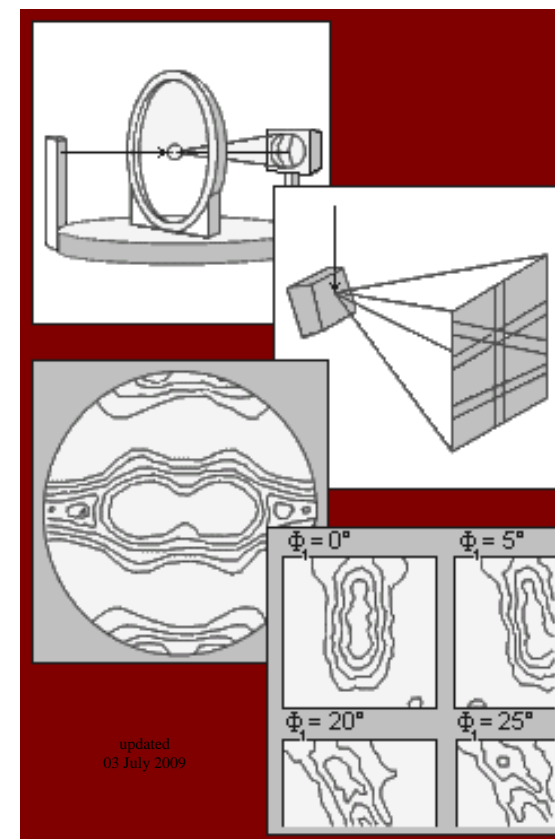
The conference language is English. There will be no translation.

Announcement
and
CALL FOR PAPERS

3rd International Conference on Texture and Anisotropy of Polycrystals (ITAP-3)

23-25 September 2009
Göttingen, Germany

ITAP-3
GZG, Abt. Kristallographie
Universität Göttingen
Goldschmidtstr. 1
D-37077 Göttingen
Germany



International Advisory Committee

Jan Pospiech (Cracow, Poland) Honorary Chair

- Jan Bonarski (Cracow, Poland)
- Daniel Chateigner (Caen, France)
- Claude Esling (Metz, France)
- David P. Field (Pullman, USA)
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- Jerzy Szpunar (Montreal, Canada)
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- Francis Wagner (Metz, France)
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Scientific and Organizing Committee

- Helmut Klein (Uni Göttingen, Germany)
- Bernd Leiss (Uni Göttingen, Germany)
- Jens Walter (Uni Göttingen, Germany)
- Heinz-Günter Brokmeier (GKSS and TU Clausthal, Germany)
- Robert Schwarzer (Herrenberg, Germany)
- Stefan Zaefferer (MPIe Düsseldorf, Germany)

Conference Contacts

ITAP-3
 GZG, Abt. Kristallographie
 Universität Göttingen
 Goldschmidtstr. 1
 D-37077 Göttingen
 Germany
 E-mail: mail@agttextur.de
 Website : www.agttextur.de
 Fax: (+49) 551 39 9521

Bank: Volksbank im Harz eG, Bank ID: DE115381283
 IBAN: DE04 2689 1484 0002936000
 BIC: GENODEF1OHA
 Reference: ITAP-3 ## Name of Participant ##

Call for Contributions

Oral as well as poster presentations are invited. Abstracts should not exceed 500 words. Submission should be made by e-mail (plain text, attached RTF or MsWord file). Please indicate your preference of presentation (oral or poster) and the author to whom correspondence should be addressed. For notification of acceptance, please include your mailing address or e-mail address, phone and fax number. Submitted abstracts will be refereed and distributed to the oral respectively poster sessions by the Scientific and Organizing Committee. Posters will be briefly introduced in a dedicated oral session.

Deadline for submission of abstracts: 31 May 2009

Notification of authors: **June 2009**

Manuscripts for publication in the conference proceedings will be due at the **beginning of the conference** in order to be subjected to the normal refereeing process by the International Advisory Committee or by the Scientific and Organizing Committee.

Registration

The registration can be made by sending back the Registration Form to the address here aside or by a Fax to (+49) 551 39 9521.

The registration fee for delegates is €225 (*late registration is €275 after August 1, 2009*) which includes technical sessions, conference barbecue, coffee in the breaks and the proceedings.

The reduced registration fee for graduate or Ph.D. students in low-paid positions is €60 (without proceedings). Please add a certification from your supervisor.

The fee for participating in one or two workshops of your choice and for the hand-outs is €50.

If the payment is made by bank transfer you will receive an invoice and the number of the ITAP-3 bank account. If the payment is made by cash you will receive an invoice at the registration desk of the conference.

Location

Göttingen is a modern city looking back on a great heritage of more than 1000 years. It is famous in science for its Georgia Augusta University that was founded in 1737 by George II when Hanover was in personal union with Great Britain.

Traffic connections by Intercity Express Train (ICE) and car (highway Hannover - Kassel) as well as by plane (Hannover Airport – direct train to Hannover – ICE to Göttingen) are excellent.

The conference will take place at the Geoscience Center of the University of Göttingen.

3rd International Conference on Texture and Anisotropy of Polycrystals 23-25 September 2009 in Göttingen, Germany

Registration Form

Title: Mr. / Mrs. / Dr. / Prof.

Family name:

Given name:

Affiliation:

Address:

Phone:

Fax:

E-mail:

I intend to participate in the workshops on

- | | | |
|--------------------------------------|--|-------------------------------|
| <input type="checkbox"/> EBSD | <input type="checkbox"/> Synchr. & Neutron | <input type="checkbox"/> MAUD |
| <input type="checkbox"/> X-ray & ODF | <input type="checkbox"/> Rock textures | <input type="checkbox"/> MTEX |

I will pay the registration fee for the ITAP-3 conference of

- | | | |
|--|-------------------------------|--|
| <input type="checkbox"/> €225 (early registration) | <input type="checkbox"/> €275 | <input type="checkbox"/> €60 (student) |
|--|-------------------------------|--|
- and (if applicable) €50 for participating in 2 workshops

in cash at the conference site

by bank transfer.

My company/organization would like to be an

- | | |
|------------------------------------|-----------------------------------|
| <input type="checkbox"/> exhibitor | <input type="checkbox"/> sponsor. |
|------------------------------------|-----------------------------------|

I intend to submit an oral / poster contribution.

Tentative title(s):

Date: Signature:.....