workshop

TEXTURE ANALYSIS
AND ORIENTATION
IMAGING

where?
Tromsø University

when?
Monday - Friday
October, 10 - 14, 2011

AIM

The aim of the workshop is twofold: (1) to familiarize participants with a method of texture analysis and orientation imaging and (2) to discuss texture interpretation and application. The first part of the workshop (2 days) introduces the CIP method (computer-integrated polarization microscopy). The second part (3 days) focuses on the interpretation of textures with selected topics which are presented in lectures and open discussions. Strong emphasis is on orientation and misorientation imaging, using both light microscopy input and SEM/EBSD imagery. Topics are: local (partial) and global (bulk) textures, type and strength of pole figures, misorientations, orientation gradients, texture interpretation of key minerals (quartz, feldspar, olivine), texture-based grain size and grain shape analysis (see schedule below), application to natural and experimental samples.

TEACHERS

Renée Heilbronner, Basel University & University of Tromsø
Martyn Drury, Utrecht University
Gill Pennock, Utrecht University
Phil Skemer, Washington University in St. Louis, Missouri
Holger Stünitz, University of Tromsø

PARTICIPATING

The workshop is open to all PhD level and postgraduate students and researchers. The maximum number of participants is limited by the number of available workstations during day 1 and 2 (16). Additional participants can be accepted for days 3 to 5.

SCHEDULE

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<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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<tbody>
<tr>
<td>Renée Heilbronner:</td>
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<td>Gill Pennock:</td>
<td>Phil Skemer:</td>
<td>Renée Heilbronner:</td>
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<tr>
<td>CIP course</td>
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<td>Mesotexture: misorientations and grain boundary populations</td>
<td>Texture development of olivine and seismic anisotropy of the upper mantle</td>
<td>Experimentally and naturally deformed quartz: interfacing CIP and EBSD</td>
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<td>Renée Heilbronner:</td>
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<td>Martyn Drury:</td>
<td>Holger Stünitz:</td>
<td>All: Open discussion</td>
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<td>CIP course</td>
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<td>Texture development in experimentally deformed halite</td>
<td>Feldspar and quartz textures, slip systems and deformation mechanisms</td>
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APPLICATION / DEADLINES

There are two modes of participation:

(1) Free participation - no credit points:
If you do not require credit points, simply apply per e-mail to renee.heilbronner@unibas.ch before October, 3, 2011. If you do not need credit points, it is also possible to participate in the CIP course or the expert meeting separately.

(2) Full participation - with credit points (5 ECTS) - requires project work:
If you are a UIT (Tromsø) PhD-student requiring credit points, apply per e-mail to renee.heilbronner@unibas.ch before October, 3, 2011.
If you are a Norwegian or international PhD-student requiring credit points, you need to apply before August, 26, 2011, using the link shown below. Please sign up for 8134 "Texture analysis and orientation imaging" and send an e-mail to renee.heilbronner@unibas.ch as soon as you have signed up.

COSTS

There will be a fee of 30 EUR for hand-outs and course materials.

MORE INFO

renee.heilbronner@unibas.ch

LINK FOR APPLICATION (use only if you require credit points)