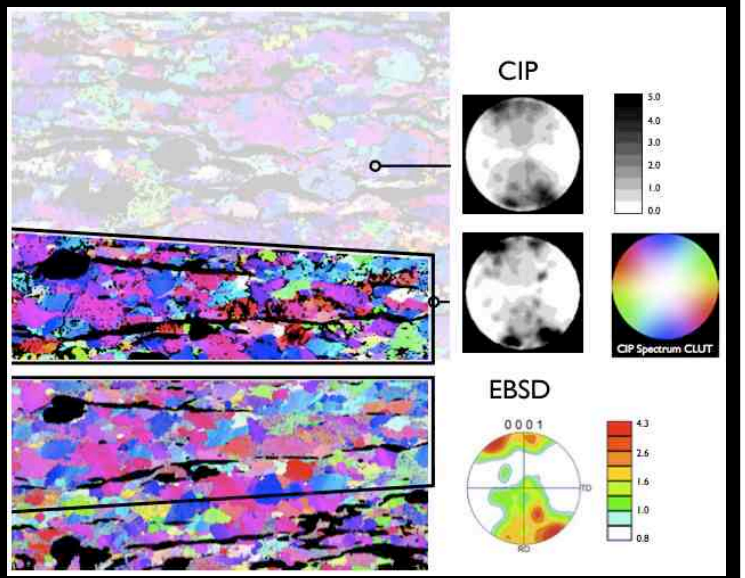
WORKSHOP:
TEXTURE TOPICS
(34546-01 Texture Analysis and Orientation Imaging)

where?
Basel University

when?
Monday - Friday
October 31 - November 4, 2016



Renée Heilbronner

Holger Stünitz
Rüdiger Kilian

Martyn Drury
Gill Pennock

AIM

The aim of the workshop is twofold:
(1) to introduce participants to a light-optical method for texture analysis, orientation and misorientation imaging (CIP), and
(2) to bring together specialists for a general discussion on current techniques of texture analysis, including SEM / EBSD and mtex / MATLAB. This years workshop will concentrate on integrating CIP, EBSD and mtex.

The workshop presents an introduction to computer-integrated polarization microscopy (CIP), a method for the derivation of c-axis pole figures, orientation, misorientation and orientation gradient images of uniaxial minerals such as quartz, calcite and ice. Other methods of texture analysis (EBSD) and calculation (mtex), are presented in lectures, practicals and open discussions.

TEACHERS

Renée Heilbronner, Basel University, Switzerland
Martyn Drury, Utrecht University, Netherlands
Gill Pennock, Utrecht University, Netherlands
Holger Stünitz, Tromsø University, Norway
Rüdiger Kilian, Basel University, Switzerland

PARTICIPATING

The workshop is designed for PhD level and postgraduate students and researchers, however, it is open to motivated Master level students also.

NOTE: The maximum number of participants is 16.

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, 24, 2016.
Early application is recommended.

(2) Full participation - with credit points (2 ECTS):

If you are a UNIBAS (Basel) student requiring credit points, please sign up for:

34546-01 Blockkurs: Image Analysis and Orientation Imaging,

ALL participants:
Please send an e-mail to renee.heilbronner@unibas.ch before October, 24, 2016. - Early application is recommended.

COST (PAY ON SITE)

75 CHF / 70 EUR (50 CHF / 45 EUR for students) - price includes text book "Image Analysis in Earth Sciences" (Springer 2014), ice breaker and coffee break refreshments.

MORE INFO

See https://earth.unibas.ch/micro/ link to workshops.
or
mail to: renee.heilbronner@unibas.ch

TENTATIVE SCHEDULE

Monday	Tuesday	Wednesday	Thursday	Friday
Introduction: Texture analysis Orientation imaging	Misorientations: Lab session - Misorientation images	Texture interpretations Slip system Rheology	Textures analysis: Recrystallization Deformation mechanisms	Texture interpretations Slip system Rheology
CIP method: Lab session - Primary orientation images	Texture based microstructures: Grain shape analysis Grain size analysis	Mesotextures: Boundary misorientations and applications	EBSD analysis using MTEX	Special topics Plenary discussion END

LINK TO → https://vorlesungsverzeichnis.unibas.ch/en/home