

10th International Workshop

BEAM INJECTION ASSESSMENT OF MICROSTRUCTURES IN SEMICONDUCTORS



Halle, Germany

July 4-8, 2010

<http://www.biams2010.de>

Second Circular
&
Call for Papers

::Purpose & Topics::

The 10th workshop "Beam Injection Assessment of Microstructures in Semiconductors" will be held in the city of Halle, lying in Saxony-Anhalt (Germany), from July 4 to 8, 2010. The conference venue is the Dorint Hotel Charlottenhof (www.dorint.com/en/hotel-halle-saale), located in the city centre. Participants can book this hotel at a reduced rate.

The BIAMS workshop deals with theoretical and experimental topics related to the assessment of defects and nano- and microstructures in semiconductors by beam injection and related methods. The conference will be organized in sections with key lectures given by a limited number of invited speakers. Poster sessions will also be held during the workshop.

The official language of the conference will be English. Since this conference is held in the "Solar Valley" region of Germany, the special topic of this conference is the application of beam injection methods to photovoltaic materials and devices. Nevertheless, the conference is open to any kind of beam injection assessment of microstructures in semiconductors.

The main topics are:

Semiconductor characterization methods

- Electron beam characterization methods: cathodoluminescence, EBIC, TEM, STEM, EBSD, ...
- Light characterization methods: spatially resolved PL, microRaman, OBIC, ...
- Scanning probe microscopy: STM, AFM and SNOM techniques
- Ion beams
- Other microscopy characterization techniques

Application of these and related techniques to the study of

- Photovoltaic materials and devices (Special Topic)
- Point and extended defects, impurities, interfaces ...
- Heterostructures, quantum structures, devices ...
- Nanostructures, nanowires ...
- Optical and electronic properties of defects, microstructures and nanostructures in general
- Any quantitative and analytical aspect of local beam injection assessment of semiconductor materials.

::Invited Speakers::

D. Cavalcoli (Bologna, Italy)
Surface Photovoltage Spectroscopy of semiconductor nanostructures

K. Dornich (Freiberg, Germany)
Contactless electrical characterization of semiconductors by microwave-detected-PICTS (MD-PICTS) and -photoconductivity (MDP)

M. Hytch (Toulouse, France)
Strain assessment in nano regions

H. Kohl (Münster, Germany)
Chemical mapping in the electron microscope

R. W. Martin (Strathclyde, UK)
Cathodoluminescence spectral mapping of nanostructures

M. Rinio (Gelsenkirchen, Germany)
Recombination in ingot cast silicon solar cells

P. Fernández Sánchez (Madrid, Spain)
Cathodoluminescence of pure and doped ZnO nanostructures

S. Sekiguchi (Tsukuba, Japan)
Optical and electrical activities of small angle grain boundaries in multicrystalline Si

T. Trupke (Sydney, Australia)
Luminescence imaging applications in silicon photovoltaics



::Organizers::

Otwin Breitenstein Chairman
Max Planck Institute of Microstructure Physics, Halle

Hartmut S. Leipner Co-Chairman
Martin Luther University Halle-Wittenberg

Horst Blumtritt
Max Planck Institute of Microstructure Physics, Halle

Wilfried Erfurth
Max Planck Institute of Microstructure Physics, Halle

Frank Heyroth
Martin Luther University Halle-Wittenberg

Eckhard Pippel
Max Planck Institute of Microstructure Physics, Halle

Peter Werner
Max Planck Institute of Microstructure Physics, Halle

::Deadlines::

February 15, 2010 – Abstract submission

March 31, 2010 – Regular registration

July 5, 2010 – Submission of manuscripts

::Correspondence::

BIAMS 2010
Max Planck Institute of Microstructure Physics
O. Breitenstein
Weinberg 2
D-06120 Halle (Saale)
Germany

Phone: +49 - 345 - 5582740

Fax: +49 - 345 - 5582557

E-mail: info@biams2010.de

Web: www.biams2010.de

::Sponsors::



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::Abstracts::

Abstracts should be submitted electronically over the web-page by February 15, 2010.

Abstracts should have no more than one page A4 in length. Acceptable file formats are MS Word and Adobe pdf. You may specify whether you would prefer to present your work in the form of a poster or as an oral presentation. The final decision, however, will be made by the scientific committee. You will be notified of the acceptance by March 15, 2010. Please notice that the number of participants is restricted to about 100.

::Proceedings::

Papers of the conference contributions will be published as a special issue of *physica status solidi (c)*. If wanted by the authors and suggested by the referee and the editor, a limited number of the manuscripts can be selected for publishing in a regular issue of *physica status solidi (a)* or *(b)* additionally.

::Fees and Final registration::

For final registration before March 31, 2010 the regular fee is 480€, after this date the late registration fee is 550€.

The conference fee includes the abstract booklet, lunch, the conference dinner for the participant, the conference excursion and the proceedings book. Additional tickets for the conference dinner and the conference excursion can be purchased at the registration desk.

For a limited number of east-european participants, travel support is available upon request.

Formal letters of invitations, necessary e. g. for visa applications, are sent only on demand.

::Scientific committee::

Otwin Breitenstein
MPI of Microstructure Physics, Halle, Germany

Anna Cavallini
University Bologna, Italy

Martin Kittler
IHP Frankfurt O. & IHP/BTU Joint Lab Cottbus, Germany

Samuil G. Konnikov
Ioffe Institute, St. Petersburg, Russia

Javier Piqueras
University Complutense, Madrid, Spain

Takashi Sekiguchi
NIMS, Tsukuba, Japan

Paul Sellin
University Surrey, UK

Brigitte Sieber
Université Lille, France

Nouar Tabet
King Fahd University, Saudi Arabia

Hajime Tomokage
Fukuoka University, Japan

Michel Troyon
Université Reims-Champagne-Ardenne, France

Eugene Yakimov
Institute of Microelectronics, Chernogolovka, Russia

::Advisory committee::

Leonard J. Brillson
Ohio State University, USA

Hans-Joachim Fitting
Rostock University, Germany

Cesare Frigeri
CNR-IMEM, Parma, Italy

Jean-Daniel Ganiere
EPFL, Switzerland

Bruno Grandidier
IEMN-CNRS, Lille, France

Maya Kiskinova
Synchrotron Trieste, Italy

Robert W. Martin
University Strathclyde, UK

Elena Mena-Osteritz
University Ulm, Germany

Matthew Phillips
University of Technology, Sydney, Australia

