

Location

The conference will take place at the Hotel International, Brno, Czech Republic. A special offer to NanoScale participants is 84 €/single room/night, 112 €/double room/night including breakfast, pool, sauna, fitness room and fast WiFi connection to internet. For more information see: <http://www.hotelinternational.cz/en/contact>.

How to find us

By plane

There is a small international airport Turany in Brno (<http://www.airport-brno.cz>) with flights from Prague and other European airports. From the airport we recommend to use a taxi, it takes about 20 minutes. Another possibility is to use a bus to the main train station of Brno and then follow the instructions for "By train".

By train

Brno main train station (Brno–hlavní nádraží) can be reached easily by direct trains from Berlin, Prague, Vienna, Bratislava and Budapest. You may find some train connections at <http://jizdnirady.idnes.cz/vlaky/spojeni> or at <http://www.bahn.de/i/view/GBR/en/index.shtml>.

If you don't want to take a taxi, which is always available in front of the station and the ride takes 5 minutes at most, take the tram nr. 4 (direction Masarykova čtvrť), 5 (direction Štefánikova čtvrť), 12 (Technologický park) or 13 (Technologický park) in front of the train station, get off at the second stop (Náměstí Svobody) and go through the passage at "Komerční banka".

By car

Brno is located in the southwest part of the Czech Republic, on the backbone motorway D1- Prague-Brno-Bratislava, and the rail-road Berlin-Prague-Brno-Vienna. Other information about how to organize your trip, please explore the pages "Transport to the city" (<http://www2.brno.cz>).

Hotels

Further hotels apart from the conference hotel are e. g. Hotel Continental (<http://www.continentalbrno.cz>) Hotel Pegas (<http://www.hotelpegas.cz>). Additional information is available at the address <http://www.brno-hotels.1bigeurope.com>.
Note: Participants are responsible for reserving their own accommodation and must settle their account directly with the hotel.

Scientific Committee

R. Bergmans (NL), H. Bosse (DE), J. Garnæs (DK), P. Klapetek (CZ), A. Lassila (FI), R. Leach (UK), F. Meli (CH), G. B. Picotto (IT), R. Thalmann (CH), G. Vailleau (FR), A. Yacoot (UK), T. Yandayan (TR), H.-U. Danzebrink (DE), and Marco Pisani (IT).

Organizing Committee

Petr Klapetek, CMI, Brno (CZ) as local organizer
T. Dziomba & L. Koenders, PTB; Braunschweig (DE).

Contact

Physikalisch-Technische Bundesanstalt
Department Surface Metrology
Bundesallee 100
38116 Braunschweig, Germany
Tel.: ++49 (0) 531 592 5100
e-mail: Ludger.Koenders@ptb.de

For the workshops:

- Thin Films: Ludger.Koenders@ptb.de
- SPM, SEM and CD: Hans-Ulrich.Danzebrink@ptb.de
- NANOTRACE workshop: m.pisani@inrim.it

Time table

30. 4.2010 – Deadline for abstract submission
30. 6.2010 – Notification of acceptance
15. 9.2010 – Registration deadline
15.10.2010 – Payment of conference fee
27.10.2010 – Deadline for manuscripts

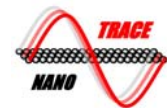
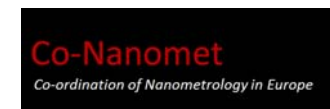
NanoScale 2010

9th Seminar on
Quantitative Microscopy (QM)
and 5th Seminar on Nanoscale Calibration
Standards and Methods

Dimensional and related measurements
in the micro- and nanometre range

together with

Workshops of European projects



- Thin films
- SPM, SEM and CD

- Interferometry at
picometre scale

Location

Hotel International Brno
Czech Republic

from
Oct 27th - 29th, 2010

Organized by



Czech Metrology
Institute



Euramet - TC Length



Physikalisch-
Technische
Bundesanstalt

<http://www.nanoscale.de>

You are cordially invited to attend the 9th Seminar on Quantitative Microscopy and 5th Seminar on Nanoscale Calibration Standards and Methods at the

*Hotel International Brno,
Czech Republic,
Oct. 27th - 29th, 2010.*

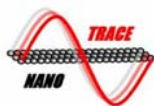
This seminar continues the series of seminars on Quantitative Microscopy since 1995. It is jointly organized by the Czech Metrology Institute (CMI) as local organizer, by the Nanometrology Group within European Association of National Metrology Institutes (EURAMET e. V.), and the Physikalisch-Technische Bundesanstalt (PTB), Braunschweig, Germany

Integral part of the seminar are open workshops of European research projects related to the Coordination of Nanometrology in Europe



Thin films
SPM, SEM and Critical Dimension

and of the European Joint Research Project
NANOTRACE



for improved interferometry at picometre scale.

Scope of the seminar

The quantitative determination of the properties of micro- and nanostructures is essential in research and development and is a prerequisite for process control and quality assurance in industry. The knowledge of the geometrical dimensions of structures in most cases is the base, to which further physical and chemical properties are linked. Quantitative measurements presuppose reliable and stable instruments, suitable measurement procedures as well as calibration artefacts and methods.

The seminar will stimulate the exchange of information between metrologists, users in science and industry as well as manufacturers of relevant hard- and software.

Topics to be addressed

Applications

Quantitative measurements and measurement problems in: micro & nano electronics, micro & nano systems technology, nano/quantum/molecular electronics, biology, chemistry, medicine, material science, surface science, and surface processing.

Calibration & correction methods

Calibration methods, standards, and strategies, uncertainty of measurements, simulation, traceability of measurements, European and international standardization.

Instrumentation and methods

Novel and improved instruments and methods, repeatable probe/sample positioning, position-measuring systems, novel/improved probe/detector systems, linearization methods, image processing, and virtual instruments.

Scope of the workshops

Thin films: measurement and characterisation of surfaces and layers or coating systems.

SPM, SEM and CD: scanning electron/probe microscopy used for tasks in dimensional nanometrology, especially for critical dimension in all type of applications.

NANOTRACE: novel interferometric techniques for picometre accuracy, transfer standards and x-ray interferometers.

Actual information

Actual and updated information will be available on the seminar web site: <http://www.nanoscale.de>

Abstracts

Participants wishing to present a paper are asked to submit an abstract of no more than 300 words. Please indicate whether you prefer oral or poster presentation. Abstracts will be reviewed and participants will be notified for a poster or an oral presentation.

*Deadline for abstract submission is
April 30th, 2010.*

*Notification of acceptance by
June 30th, 2010*

Fees

The fee will be 250 € and will include proceedings, beverages, lunch during the seminar and the conference dinner. We strongly recommend to pay in advance – preferably until Oct. 15th, 2010 – by bank transfer in euros to this account in Germany:

Bank: Volksbank Vechelde-Wendeburg eG
Account to: Physikalisch-Technische Bundesanstalt
IBAN: DE95 2506 9370 0104 8198 00
BIC/SWIFT: GENODEF1WBU
Within Germany: Konto: 10 4819 800 and BLZ: 250 693 70 will do as alternative to IBAN & BIC/SWIFT.

Please state the keyword NANOSCALE, your name, and affiliation.

Registration

Please register online at <http://www.nanoscale.de>.

*Registration deadline will be
Sep. 15th, 2010.*

Proceedings

It is intended to publish peer reviewed manuscripts as conference proceedings in a special issue of **Measurement Science and Technology**. The authors are asked to submit manuscripts (up to 8 pages) at the latest at the registration desk **on Oct. 27th, 2010.**