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# **Organizational Details**

08 - 09 March 2016 English

Attendance fee:

Registration:

€ 75 (1st person) Memberr € 75

Accommodation:

08 March 2016 Get2gether: Further information can be found on

Conference Location:

Contact:

© CC UPOB e.V.

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**Expert Meeting** Asphere Metrology

March 08 th - 09 th, 2016



## Sponsors



Psycketoh-Networks Burstwerren Braunschweig und berin

France

Leica Camera AG Germany



Thales Angenieux SAS DI()PTIC

Date: Language:

Please register by letter or fax using Extended deadline: the attached form. Following this February 29th 2016 you will receive a confirmation.

Lecturers:

Non-members: € 195 Please pay in advance after receiving the invoice.

For more information, please visit www.upob.de/--- Veranstaltungen

our website For more information, please visit

www.upob.de/--- Veranstaltungen CC UPOB e. V. c/o PTB

Workshop







## Backaround To be able to produce and measure ever-improving top-quality products, technology providers and users of high-precision measurement technology are willing to face new challenges constant-

ly. This is especially true in the field of asphere metrology. The

asphere applications are widespread. However, it is difficult to

produce and measure them precisely. This is revealed by today's

practice, where sometimes large measurement uncertainties

In 2010 the CC UPOB e.V., i.e. the Competence Centre for

Ultra-Precise Surface Figuring begun to bring together experts

from industrial and research fields, as well as developers and

During our uncoming meeting the international actors will pre-

sent their measurement devices, methods and last but not least,

their results of the four newly produced samples which have

Discussions on the specific presentations, contributions on mea-

surement of free-form surfaces, comparability of measurements

as well as discussions on future steps in general will complete

The immense interest shown in our round robin "Asphere

Metrology" was confirmed once again at the 8th High Level

been compared among the community.

workshop is held again in March 2016.

emerge.

users

the workshop

# Agenda Day 1: Tuesday March 08th 2016

- # 10:30 Early Registration
- # 11:00 Company Tour 1
- Visit of Physikalisch-Technische Bundesanstalt-(PTB) Laboratories Part I: Overview PTR Activities
- Part II: Atomic Clocks Part III: Mechanics and Acoustics
- # 13:30 Conference Opening and Overview
- Frank Löffler: CC LIPOR e V : Germany
- II The Envisaged New SI: Contributions from Precision
- Manufacturing and Dimensional Metrology Harald Bosse; Physikalisch-Technische Bundesanstalt; Germany
- Asphere Round Robin Result by UA3P-650HD
- Tomofumi Morishita: UA3P Development Team Panasonic
- Production Engineering Co., Ltd.: Japan Measurements with the Tilted Wave Interferometer Alexander Bielke: Institut für Technische Optik (ITO)
- University Stuttgart: Germany II Point Measuring Methods and Interferometry Based
- Systems in Comparison:
- Andreas Reutler: Mahr GmhH: Germany Measurement Results with a Twyman-Green
- Interferometer of the HIFM Round Robin Asphere Test 2016 Thomas Blimel: TRIOPTICS Berlin GmbH: Germany I line Scanning Interferometry in Combination with a
- Sticking Procedure for Asphere Metrology Sören Laubach: Physikalisch-Technische Rundesanstalt: Germany

Expert Meeting (HLEM) - Asphere Metrology in March 2015. Due to the strong demand in the aftermath of this event, this Accompanying the workshop, institutions from research and industry inform about the different technologies, systems, abilities as well as the latest developments.

After each lecture there will be the apportunity for a short discussion. For more detailed information please visit www.upob.de, you will receive more information about each session as well as additional information relating this event. You'll receive last minute information on by visiting our website.

## # 09:00 Opening

- II Intercomparison of Measurement Results Revko Schachtschneider: Physikalisch-Technische
- Rundesanstalt: Germany Interferometric Metrology of Freeform Aspheres Using CGHs
- Frank Weidner: Diontic GmhH: Germany ... Potentials and Limitations to Measure Freeforms with
- Different Systems
- Andreas Beutler: Mahr GmhH: Germany Proof of Concept for Manufacturing and
- Measuring of Freeforms
- Sven R. Kjontke: aspherican GmbH: Germany # Metrological Freeform Artefact
- Gernot Blobel: Physikalisch-Technische Bundesanstalt: Germany # FreeFORM - The New European Asphere Metrology Project
- Michael Schulz: Physikalisch-Technische Bundesanstalt: Germany II Summary and Outlook
- Michael Schulz: Physikalisch-Technische Bundesanstalt: Germany .. Conference Closina
- # 13:35 Company Tour 2: Visit of PTR Laboratories Visit I: Department Scientific Instrumentation of Visit II: Working Group Form and Wavefront Metrology

## Programme Committee

Jean-Michel Asfour: Dioptic GmbH Andreas Reutler: Mahr GmbH Frank Löffler: CC LIPOB e V Pudolf MacR: CC LIPOR a V

Gunter Schneider: Schneider GmbH + Co. KG Michael Schulz: PTB Oltmann Riemer: University of Bremen LFM

## Please fax your registration to +49 531-592-69 5131 Registration

# ☐ I hereby register for the 10<sup>th</sup> Workshop Asphere Metrology

- TYES, I will attend the Get2aether on 08 March 2016 TYES, I will attend the PTB Company Tour before Workshop
- TYES, I will attend the PTB Company Tour after Workshop Registration deadline: February 29 to 2016

Title, Family Name: First Name

Affiliation Institution

Address:

Signature:

Proteil Code City Country

Phone Fox

We would like to know how to deal with photos on which you can

be seen. Please tick (explanation below). ☐ YES, photos may be published by UPOB

NO, photos may NOT BE PUBLISHED by UPOB

The relates taken during this event will be shown only on our websi. te or in our own publications of and reports on this event. These photos are not used commercially. Names will not be mentioned in connection with the imposes Cancellation up to 14 days prior the meeting will be charged 50%

of the attendance fee Following that date or if the participant does not attend the meeting.

the total amount is due. Cancellations must be made in writing. We would be glad to accept another participant as attendance fees are transferable.