

Background - Joint Investigation

Two selected aspheres were investigated by fifteen institutes. Theoretical papers introduce in asphere metrology and free from surfaces.

The following institutions participate with measurements or theoretical contributions:







IBS

Mahr Panasonic





ZEISS

Organizational details

Date: Language: Registration: Registration deadline

February 25th 2012 Attendance fee

135 . € [] st nerson] 135 € Non-mambars: 500 - 6 Please pay the fee in advance after receiving the invoice

English

March 6th and 7th 2012

Please register by letter or fax using

the attached form. Following this

you will receive a confirmation.

Recommended accommodation

www.upob.de/ -- Veranstaltungen

- HIEM 2012

Accommodation:

Confessors Disease

Get2gether:

Location:

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March 48 2012 PTB-Brounschweig: Conference Center

Directions: www.upob.de/---- Kontakt CC UPOB e. V. c/o PTB Heiko Klawitter Bundesallee 100

March 5th 2012

38116 Brounschweig Tel: +49 531 - 592 - 5131 Fax: +49 531 - 592 - 695131 info@upob.de: www.upob.de

HLEM

March 6th and 7th 2012



Expert Meeting "Asphere Metrology on Joint Investigations"









5th High Level Expert Meeting 2012

Aspheres - whether as an aid for poor evesight, in mobile phones or large optics - are in use all ground us. As widespread their applications are as difficult it is to produce or to measure them precisely. This is revealed by today's practice, where sometimes large measurement uncertainties emerge.

- But how can measurement uncertainties he minimized? ■ Which procedures have which advantages? Which technical innovation will improve existing
- techniques significantly?

Could a calibrated reference asphere be the key? Questions like the ones above can be addressed by experts only. The High-Level Expert Meeting, organised by CC LIPOR a V. the competence centre for ultraprecise surface figuring, aims to bring together these experts from industry and research, developers and

users to continue the 2010 started dialogue. During our upcoming meeting the international actors will present their measurement devices, methods and last but not least, their results of samples which have been compared among the community.

Contributions on the measurement of free-form surfaces. discussions on the specific presentations as well as discussions on future steps in general will complete the conference. This meeting take place on

March 6th & 7th 2012 at PTB, Braunschweig, Germany's National Metrology Institute

Agenda Day 1: Tuesday March 6th

- Measurement of the aspheres with the Isara 400: Dr. H. A. M. Spaan: IBS Precision Engineering BV: Netherlands
- ... Test measurements on the Tilted Wave Interferometer: G. Boer University Stuttagrt ITO: Germany
- 3D tactile scanning on aspheric lenses; Dr. A. Beutler; Make GmbH: Garmany
- II Interferometric Measurements of Aspheric and Freeform Surfaces: Dr. P. Szwaykowski: ESDI: USA
- Asphere and Freeform Measurement by 3 D Profilometer for Ultraprecision Manufacturing: S. Scheiding / A. Gebhardt: Fraunhofer Institute For
- Applied Optics And Practition Engineering KOF: Germany CGH Design and applications in antical testing
- IENOPTIK Laser, Optik, Systeme GmbH: Germany
- ... Analysis of CGH adjustment errors and their minimization: Dr. T. Ottenstein: DIOPTIC GmbH: Germany Specular freeform surfaces measured by
- Deflectometry: E. Olesch: University of Erlangen-Nuremberg; Germany
- Aspheric Testing in Null Configuration with a Turamon. Green-Interferometer: Dr. K. Montel
- Max Planck Institut Erlangen: Germany Asphere and Freeform Metrology at Carl Zeiss:

Dr. Michael Schulz: PTR

Dr. T. Köhler: Carl Zeitz Jenn GmbH: Germany

Programme Committee

Prof. Dr. Jan. Frank Löffler: LIPOR a V. Dinl Ing. Gunter Schneider: Schneider GmhH + Co. KG Dipl. Plan Jaco Michal Asfour: Dioptic GmbH Prof. Dr. Jng. Fkkord Brinksmeier: University of Bremen IFM Dr. Hans Lauth: Fresnel Optics Gmbh Dr. Rudolf Meeß: UPOB e.V.

Agenda Day 2: Wednesday March 7th

- " Licencing apportunities and patenting policy of PTR:
- Technology Transfer Commissioner; PTB; Germany II An alternative solution to non-contact asphere metrology based on MWLI technology: Dr. G. Berger.
- Luphos GmbH: Germany Recent Advances in Aspheric Stitching Interferometry
- J. P. Lormeau; QED Technologies International: USA " Chances and limits of optical in-situ measurements: I. Hollenbach / Dr. M. Lehndorff: Kualer GmbH:
- Asphere Metrology round robin result of UA3P
- K. Kubo: Panasonic Production Technology Co., Ltd: HA3P Development Team: Japan
- # Freeform ontics and scanning deflectometric testing of aspheres: S. Stürwald:
- Fraunhofer IPT: Germany Orthogonal Polynomial Representations for

PTB: Germany

publish it on: wasse upoh de

- Aspheres and Freeforms: Dr. A. Kulawiec: OED Technologies International: IIICA Potentials and Limits of Deflectometry:
- Prof Dr G Häuslar University of Erlangen-Nuremberg; Germany . Discussion on Comparability: Dr. S. Quabis:
- In the lectures of 25 minutes each the manufacturers will present their measurement procedures and the results of their investigations on the test arphares. Following there will be a chance for discussions. Before the start of the meeting, we will send you the final greends and also

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