



Kompetenzzentrum  
Ultrapräzise  
Oberflächen-  
bearbeitung e.V.

## Key Dates

### Measurements & Meeting:

- Start of Measurements: 3 April 2017
- Application for Measurements:  
is Opened
- Abstract Deadline  
„None Measurement Contributions“:  
31 November 2017
- Deadline for Performing Measurements:  
30 October 2017
- Deadline for Submission of Author & Title:  
15 December 2017

### Exhibition:

- Deadline Registration for Industrial Exhibition:  
31 January 2018

### Participation:

- Start Registration: Autumn 2017
- Deadline Registration: 12 February 2018

## Programme Committee

Jean-Michel Asfour; Dioptic GmbH  
Andreas Beutler; Mahr GmbH  
Thomas Franz; NTG GmbH & Co. KG  
Frank Löffler; CC UPOB e.V.  
Rudolf Meeß; CC UPOB e.V.  
Oltmann Riemer; University of Bremen LFM  
Michael Schulz; PTB

## Organizational Details

**Date:** 28 February – 1 March 2018

**Language:** English

**Registration:** Please register by letter, fax or e-mail using the registration form available at [www.upob.de](http://www.upob.de). Following this you will receive a confirmation.

### Attendance fee

**Lecturers:** € 150 (1 person)

**Members:** € 150

**Non-members:** € 525

Please pay in advance after receiving the invoice.

**Accommodation:** For more information, please visit [www.upob.de/Veranstaltungen](http://www.upob.de/Veranstaltungen).

**Get2gether:** 27 February 2018, 18:30

**AUTOSTADT Wolfsburg:** 28 February 2018, 16:00

**Conference Dinner:** 28 February 2018, 19:00  
Further information can be found on our website.

**Conference Location:** For more information, please visit [www.upob.de/Veranstaltungen](http://www.upob.de/Veranstaltungen).

## Contact

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28 February – 1 March, 2018

## 9<sup>th</sup> High Level Expert Meeting Asphere Metrology



28 February – 1 March, 2018  
at Physikalisch-Technische Bundesanstalt  
Germany



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## 9<sup>th</sup> High Level Expert Meeting Asphere Metrology



### Programme 1st Day, 28 February 2018

#### 9:30

Welcome to HLEM 2018  
Conference Opening,  
Overview and Outlook  
*Frank Löffler; CC UPOB e.V.; Germany*

YSA 2018  
Young Scientists Award 2018;  
Introduction and Short Lectures  
of Nominated Young Scientists  
from Ultra-Precision  
Surface Engineering  
*Rolf Rascher, TH Deggendorf, Germany*  
*3 Various Speakers of Various Companies*

Introduction to HLEM 2018 –  
Overview on Samples  
*CC UPOB e.V.; Germany*

Subaperture Stitching  
Interferometry of Aspheric  
and Freeform Optics  
*Paul E. Murphy; QED Technologies;  
United States*

#### Break & YSA 2018 Poster Session

Measurement of Asphere and  
Freeform Surfaces in TOPTEC  
*Pavel Psota; TOPTEC Institute of Plasma  
Physics; Czech Republic*

Tilted Wave Interferometry  
*Antonia Harsch; Institute of Applied Optics /  
University of Stuttgart; Germany*

Interferometric Surface Figure  
Measurement of Cylindrical  
Lenses with CGHs  
*Jan-Peter Richters; Berliner Glas KGaA;  
Germany*

Non-Contact 3D Form  
Measurements of Complex  
Geometries Based on a Scanning  
Point Interferometer  
*Marc Wendel; AMETEK GmbH – Business  
division Taylor Hobson / Lumphos; Germany*

#### Break & YSA 2018 Poster Session

Metrology Systems for Asphere  
and Freeform Production in IOM  
*Thomas Arnold; IOM – Leibniz-Institut für  
Oberflächenmodifizierung e.V.; Germany*

Fast and Reliable In-Situ  
Measurement of Large and  
Complex Surfaces Using a Novel  
Deflectometric Device  
*Engelbert Hofbauer; TH Deggendorf and  
Hofbauer Optik; Germany*

Summary and Closing of First Day  
*Frank Löffler; CC UPOB e.V.; Germany*

**15:00**  
Bus Transfer to  
AUTOSTADT Wolfsburg

**16:00–18:30**  
Tour in AUTOSTADT Wolfsburg

**19:00**  
Conference Dinner

**22:30**  
Bus Transfer to Hotels

**23:00**  
Good Night!

### Programme 2nd Day, 1 March 2018

**9:30**  
Opening of Second Day  
*Frank Löffler; CC UPOB e.V.; Germany*

Freeform Surface Measurement  
Using Experimental Ray Tracing  
*Tobias Binkle; Hochschule Bremen – City  
University of Applied Sciences; Germany*

Automated Asphere Centration  
Testing  
*Felix Hahne; Trioptics GmbH; Germany*

Measurements of Aspheres and  
Freeforms with Different Types of  
Instruments  
*Andreas Beutler; Mahr GmbH Göttingen,  
Germany*

#### Break & YSA 2018 Poster Session

Nano Measurement Accuracy in  
Asphere and Freeform Surfaces  
*Tomofumi Morishita; Panasonic Production  
Engineering Co., Ltd., Japan; Panasonic  
Factory Solutions Europe, Germany*

Tactile Measurements of  
Asphere and Freeform Surfaces  
with Isara 400  
*Henny Spaan; IBS Precision Engineering BV;  
The Netherlands*

**Break & YSA 2018 Election**  
Voting by conference participants

Intercomparison of  
Measurement Results  
*Tom Götze; Physikalisch-Technische  
Bundesanstalt; Germany*

YSA 2018  
Young Scientists Award 2018;  
Ceremony  
*Rolf Rascher, TH Deggendorf, Germany*

Conference Closing and Outlook  
*Frank Löffler; CC UPOB e.V.; Germany*

**15:00**  
End of Event and Departure

### Background

On previous High Level Expert Meetings (HLEM) and workshops, developers, manufacturers and users have confirmed the great interest in asphere metrology. Both the introduced measurement systems as well as the results of round robin comparison measurements show the enormous potential of this field of technology. In addition, a great need for comparability, standardization and proximity to users was also pointed out.

Our 9<sup>th</sup> HLEM 2018 is dedicated to the presentation of measurement results of current lenses, discussion and dissemination of new developments and recent scientific results in asphere and free form metrology for reflective and transmissive surfaces. With this broader scope we aim to supplement our previous events while also addressing asphere and free form metrology to interested scientists, developers and manufacturers.

After each lecture is the opportunity for a short discussion. Please visit [www.upob.de](http://www.upob.de), you will receive detailed information about each session as well as last minute information relating this event.

