



# Digital Event



16-18 March 2021

#### **Exhibition 2021**

The popular exhibition of participating companies will take place in one of our break out rooms during this year's conference.

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#### **Programme Committee**

Jean-Michel Asfour; Dioptic GmbH, Andreas Beutler; Mahr GmbH Ines Fortmeier; PTB 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

# **Key Dates**

Measurement Schedule	Dates	
Application for measurements	is opened	
Start of measurements	since July 2019	
Deadline for submission of author and title	30 October 2020	
Deadline for performing measurements	15 December 2020	
Deadline to submit your measured data for comparison	2 weeks after the end of your measurement period	
Deadlines for Non-Measurement Contributions		
Abstracts	30 October 2020	
Registration for industrial exhibition	1 March 2021	
The places are assigned according to the principle: first come first serve.		
Participation Schedule		
Registration	since July 2019	
Registration deadline	1 March 2021	

## **Organizational Details**

Date	16 – 18 March 2021	
Language	English	
Registration	by letter, fax or e-mail using the registration form available at www.upob.de. You will receive a confirmation notice.	
Accommodation	www.upob.de/Veranstaltunger	
Attendance fee		
Lecturers	€ 125 (1 person)	
Members	€ 125	
Non-members	€ 250	
Please pay in advance	after you have received the invoice.	

#### **Contact**

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info@upob.de www.upob.de

### 11th High-Level Expert Meeting **Asphere Metrology** on Joint Investigations



16-18 March 2021 at Physikalisch-Technische Bundesanstalt **Germany** 





11th High-Level Expert Meeting
Asphere Metrology
on Joint Investigations

SAVE THE DATES

SAVE THE

Promotion of Young Scientists within the Field of Ultra-Precise Surface Engineering



#### **Background**

In the field of asphere metrology, many new advancements were achieved, new measurement procedures were developed and precision was noticeably improved. Especially the measurement of optical elements with the highest accuracy is anything but trivial. Hence, only the best manufacturers of measurement technology manage to meet this high standard.

In addition to accuracy, the comparability of the measurement results of different systems and manufacturers is very important. Therefore, the participants of our 11<sup>th</sup> HLEM will again measure selected aspheres and free-form surfaces, present the results and demonstrate the potential as well as the further development of their measurement devices during the conference.

Contributions on complementary topics, awarding the 3<sup>rd</sup> Young Scientist Award and an exhibition of the participating companies round out the programme.

Would you like to participate in measurements or iust give a lecture?

Would you like to present your institution at the company exhibition?



## Main Topic:

**Topics** 

Presentation of the results of the round robin

#### **Additional Topics:**

- New developments in measuring techniques for aspherical, free-form and cylindrical lenses
- Manufacturing and measurement of metal optics
- Measurement of unmounted aspheres
- Inner centration of aspheres
- Other topics related to asphere and free-form metrology or production

Authors who intend to give a presentation should specify the title and the topic from the list above and send a 200-word abstract in English. Institutions interested in participating in the measurements should contact us soon to schedule a measurement time.



#### Invitation to Tender

# #3.1 Unmounted Asphere HLEM 2021 – sample #3 part 1 provided by asphericon marker manufactured by NTG (was used mounted in 2018/19) Asphere – Metal Optics HLEM 2021 – sample #3 part 3

provided by LT Ultra

Lenses

#5.1

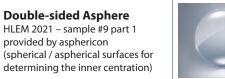




Convex Toroid

HLEM 2018/19/21 – sample #6 part 1

provided by Physikalisch-Technische
Bundesanstalt
marker manufactured by NTG



#### Please Apply!

As a young scientist (up to age 30), you can present your work to an interested expert audience within the scope of this year's HLEM. Each selected participant will be invited to attend the HLEM (participation in the conference is free of charge). At the HLEM, you will present your work in the plenum during a poster session with a 5-minute slide presentation in front of international experts from science and industry.

The best works will be awarded with prizes of

€ 1000, € 500 and € 250

#### Please Apply to Present on the Following Topics:

Precision procedures such as MRF, SPDT, IBF, etc.; approaches for additive manufacturing for optical products; cleaning and multiple-layer coating; metrology and data analysis in production lines for aspheres and freeforms; ultra-flatness; diffraction bases; nanostructures.

#### Please Send Your Abstract in English (250 words),

including a passport picture, by 15 January 2021 to the UPOB office to Mr. Klawitter (info@upob.de). You will receive a reply by February 2021. Legal action is excluded.