



Kompetenzzentrum
Ultrapräzise
Oberflächen-
bearbeitung e.V.

Digital Event

16 – 18 March 2021

Exhibition 2021

Key Dates

Organizational Details



Image source: PTB

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



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

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



16 – 18 March 2021
at Physikalisch-Technische Bundesanstalt
Germany


**CALL FOR MEASUREMENTS
AND CONTRIBUTIONS**

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



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



Background **Topics** **Lenses** **Invitation to Tender**

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 11th 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 3rd Young Scientist Award and an exhibition of the participating companies round out the programme.

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

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

Main Topic:

- 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.

PLEASE REGISTER NOW!

CALL FOR MEASUREMENTS AND CONTRIBUTIONS

#3.1	Unmounted Asphere HLEM 2021 – sample #3 part 1 provided by asphericon marker manufactured by NTG (was used mounted in 2018/19)	
#3.3	Asphere – Metal Optics HLEM 2021 – sample #3 part 3 provided by LT Ultra	
#5.1	Precision Cylinder HLEM 2018/19/21 – sample #5 part 1 provided by Berliner Glas	
#6.1	Convex Toroid HLEM 2018/19/21 – sample #6 part 1 provided by Physikalisch-Technische Bundesanstalt marker manufactured by NTG	
#9.1	Double-sided Asphere HLEM 2021 – sample #9 part 1 provided by asphericon (spherical / aspherical surfaces for determining the inner centration)	

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.