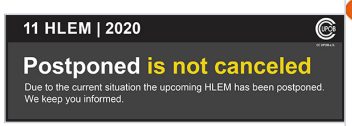
11th HLEM 2020 - High Level Expert Meeting Asphere Metrology

Event - 11th HLEM 2020 - High Level Expert Meeting Asphere Metrology ↻

Title	11th HLEM 2020 - High Level Expert Meeting Asphere Metrology
When	Di, 17. März 2020 - Do, 19. März 2020

Description



11th - High Level Expert Meeting (HLEM 2020) - Asphere Metrology

In the field of asphere metrology, many new advancements were achieved, new measurement procedures were developed and precision was noticeably improved. In previous High-Level Expert Meetings (HLEM) and workshops, developers, manufacturers and users have confirmed the great interest in asphere metrology.

Please learn more about previous events by following links (HLEM 2019**, HLEM 2018, HLEM 2017**; **Workshop 2016**; **HLEM 2015**; **HLEM 2013**; **Workshop 2012; HLEM 2012, HLEM 2010**)

In order to manufacture ultra-precise and high-tech optical components and to be capable of further miniaturization, reliable and extremely precise measurement technology is required. 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.

Save the DATE for our upcoming 11th HLEM 2020 im March 2020!



Here you can find the **call for measurements and contributions**:

This HLEM 2020 website will be actualized regularily, do you need any information that is currently not avaliable here?

Don´t hesitate to contact Mr. Klawitter in our administrative office!

HLEM in Spring 2020

Our upcoming 11th HLEM 2020 is dedicated to the presentation of measurement results of current lenses (5 parts), 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.

Five different samples are available for measurements through kind support of Berliner Glas (Berlin), Physikalisch-Technische Bundesanstalt (Braunschweig), LT-Ultra (Herdwangen-Schönach) and Asphericon GmbH (Jena). The marks on the glass samples were realized by NTG GmbH (Gelnhausen).

The following five samples are available. We would appreciate, if you could consider these lenses in your measurements:

■ precision cylinder (UPOB #5)

■ convex toroid (UPOB #6)

■ standard asphere (like UPOB #3) - completely made of metal (CGH for lens #3 is available) not available for HLEM 2020

■ standard asphere (UPOB #3) – unmounted (CGH for lens #3 is available)

■ double sided Asphere (UPOB #9) - unmounted

D o w n l o a d h e r e H L E M Flyer!
D o w n l o a d h e r e the call for papers and contributions!

Planned Main Topics of HLEM 2020

Several companys and institutions are planning to perform measurements on the available samples. Main topic of the conference will be the presentation of the results of the five samples.

Main Topic:

■ Presentation of the results of the round robin

In addition to presentation on measurements also following topics of interest are:

Additional Topics:

- New developments in measuring techniques for aspherical, free-form and cylindrical lenses
- Clamping technologies for measurements in aspherical lens production
- 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

Download here the detailed program!

Your chance to join!

- Would you like to perform measurements and give a presentation?
- Would you like to receive more details of the "round robin" samples?
- Would you like to give a lecture without measurements?
- Are you interested in participating?
- Are you interested in participating in the supporting exhibition?

Please send an e-mail with your request to: info@upob.de

Download here your registration!



YSA 2020 - Young Scientist Award

Awarding the 3rd Young Scientist Award round out the programme!

In addition to the scientific part of the event, which focuses on the topic of asphere metrology, the CC UPOB e.V. will award a prize for the third time in 2020. Young scientists up to the age of 30, have opportunity to present their work to an interested specialist audience during the High-Level Expert Meeting. By a jury of the participants the best work will be selected and priced.

Submissible topics are scientific papers from the following fields of activity:

- precision methods e.g. MRF, SPDT, IBF ...
- approaches to additive precise optics production
- cleaning and coating, multi-layer coatings
- metrology and data analysis in production chain for aspheres and freeforms
- ultra-flatness; diffraction base plates; nanostructures

Applicants have the opportunity to apply with an abstract in english with a picture and 250 words by 15.01.2020 extended to 31.01.2020 at the CC UPOB e.V. office.

At the beginning of the conference, the pre-selected works will be presented by the candidates in a short presentation.
During the breaks, the participants can continue to find out about the topics in a poster session.
At the end of the conference, the award ceremony will take place.

You will find more details in HLEM Call for Papers

Key Dates

Measurements & Meeting:

■ Start of Measurements:
15 July 2019

■ Application for Measurements:
is Opened

■ Abstract Deadline „None Measurement Contributions“:
15 October 2019

■ Deadline for Performing Measurements:
15 January 2020

■ Deadline for Submission of measured data for comparison:
Not later than 4 weeks after end of your measurement period (measurements in 2019)
Not later than 1 week after end of your measurement period (measurements in 2020)

■ Deadline for Submission of Author & Title:
31 October 2019

Exhibition:

■ Deadline Registration for Industrial Exhibition:
14 February 2020 (first come first serve)

Participation:

■ Start Registration:
Autum 2019 (download registration form here)

■ Deadline Registration:
3 March 2020

Organizational Details

Date of Meeting:
17 - 19 March 2020

Language:
English

Registration:
Please register by letter, fax or E-Mail using the registration form.
Following this you will receive a confirmation.

Attendance fee:
Lecturers: € 175 (1 Person)
Members: € 175
Non-members: € 575

Please pay in advance after you have received the invoice.

Accomodation:
By following booking link you will find ~~recommended accomodation~~:
~~http://web4.deskline.net/HLEM2020/en/accommodation/qfind?selNumberOfUnits=1&selArrivalDate=20200317&selNights=2&selAdultsSearchline1=1&customMarker=&customMarkerLat=&customMarkerLong=~~
You can also send an E-Mail to ~~kongress@braunschweig.de~~ or please call +49(0) 531 470-3230.
This hotel **contingent was avaliable until: 18 February 2020!**

If you are looking for additional accomodation we suggest following hotels:
Best Western City Hotel
Hotel Deutsches Haus
Hotel Fürstenhof
Mercure Atrium Hotel
Vienna House Easy Braunschweig

Get Together:
17 March 2020: Start: 19:00:
Restaurant Fuchs Blau;
Address: Am Magnitor 1, 38100 Braunschweig, Germany

Conference Dinner:
18 March 2020: Start: 19:00
Restaurant Schickeria;
Address: Hannoversche Str. 60, 38116 Braunschweig, Germany

Conference Location:
The conference takes place in:
PTB´s Seminar Center; Bundesallee 100, 38116 Braunschweig, Germany

Travel:
For your travel by train with "Deutsche Bahn" you can use a special offer. Please check the price and use for booking the phone number in **this document** (german) or this one (english).
(You´ll need Credit Card and codeword "CB Braunschweig")

Do you travel by plane via Hannover? You can use a special transfer service.
Additional information you will find by **following this link.**

Do you need any general information?
Don´t hesitate to **contact us directly.**

Travel in Braunschweig:
If you like to receive more information to travel in Braunschweig you can use this **journey planner**.
You can find a public transport **planner for Braunschweig region here.**

Download:
Learn more about **all downloadable files of this event here**

Contact:

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Fax.: +49 531 592-69-5131
Please send e-mails to **info@upob.de**

Bundesallee 100
38116 Braunschweig
Germany

Venue - Physikalisch-Technische Bundesanstalt (PTB)

Location	Physikalisch-Technische Bundesanstalt (PTB)
Street	Bundesallee 100
Postcode	38116
City	Braunschweig
County	Niedersachsen
Country	DE
Website	http://www.ptb.de