11th HLEM 2021 - High Level Expert Meeting Asphere Metrology

Event - 11th HLEM 2021 - High Level Expert Meeting Asphere Metrology ↻

Title	11th HLEM 2021 - High Level Expert Meeting Asphere Metrology
When	Di, 16. März 2021 - Do, 18. März 2021

Description



11th - High Level Expert Meeting (HLEM 2021) - 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 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 NEW DATE for our 12th HLEM 2022, March 15-17, 2022!



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

This HLEM 2021 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 2021

Our upcoming 11th HLEM 2021 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)

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

■ double sided Asphere (UPOB #9) - unmounted

Of special Interest HLEM 2021 - ONLINE only

Our 11th HLEM will take place ONLINE only!

But despite this new format, it will again be a very interesting meeting of experts from all over the world!

Due to the new **ONLINE format**, the popular industrial exhibition and the poster sessions of the young scientists are held in separate virtuell adjoining rooms ...

As you can see, the topic asphere metrology remains very interesting!

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 2021

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

■ Comparison of current results

The following topics are also of interest:

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

■ UP-Manufacturing processes

■ Other topics related to asphere and free-form metrology or production

D o w n l o a d h e r e the detailed program!

Y o u r c h a n c e t o j o i n !

■ 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

D o w n l o a d h e r e your registration!

YSA 2021 - 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 2021. 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 30.01.2021 (extended) 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 - still running

■ Application for measurements:
is opened

■ Abstract deadline „none measurement contributions“:
30 October 2020

■ Deadline for performing measurements:
15 December 2020

■ Deadline to submit measured data:
Not later than 2 weeks after end of your measurement period

■ Deadline to submit author & title:
30 October 2020

Exhibition:

■ Deadline registration for industrial exhibition:
1 March 2021 (first come first serve)

Participation:

■ Start registration:
Autum 2020 (download registration form here)

■ Deadline registration:
1 March 2021

Organizational Details

Date of Meeting:

16 - 18 March 2021

Language:
English

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

Attendance fee (ONLINE Conference Discount):
Lecturers: € 125 (1 Person)
Members: € 125
Non-members: € 250

Please pay in advance after you have received the invoice.

Accomodation:
==> not necessary

Get Together:
==> not necessary

Conference Dinner:
==> not necessary

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

Travel:
==> not necessary

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

Contact:

CC UPOB e.V.
Mr. Heiko Klawitter
Tel.: +49 531 592-5131
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