

12th HLEM 2022 - High Level Expert Meeting Asphere Metrology

Veranstaltung - 12th HLEM 2022 - High Level Expert Meeting Asphere Metrology ∩

Titel	12th HLEM 2022 - High Level Expert Meeting Asphere Metrology
Wann	Di, 15. März 2022 - Mi, 16. März 2022

Beschreibung



12th - High Level Expert Meeting (HLEM 2022) - 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 2021](#), [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 - 12th HLEM 2022, March 15-16, 2022! [Register HERE!](#) [Find here the Program Preview](#) [Find here the Detailed Program](#) [Find here the Call for Measurements and Contributions](#) [Find here the Program Flyer](#)

This HLEM 2022 website will be actualized regularly, do you need any information that is currently not available here?

Don't hesitate to contact [Mr. Klawitter in our administrative office!](#)



Of special Interest HLEM 2022 - This time Online again! Due to the current situation we are planning to hold our 12th HLEM online again.

Regardless of whether we come together face to face or online, the accompanying **HLEM industry exhibition** and the poster area of the **Young Scientist Prize Winners (YSA)** will again be an integral part of our event!

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

HLEM in Spring 2022

Our upcoming 12th HLEM 2022 is dedicated to the presentation of measurement results of current lenses (4 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.

Four 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 samples are available:

- standard asphere (#3.3) - metal optics (CGH for #3 is available)
- precision cylinder (#5.1)
- convex toroid (#6.1)
- double sided Asphere (#9.1) - unmounted

Planned Main Topics of HLEM 2022

Several companys and institutions are planning to perform measurements on the available samples.
Main topic of the conference will be the presentation of the measurement results of the four 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
- Coating of lenses and optical surfaces
- 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!](#) [Download here the Program Flyer!](#)

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 2022 - Young Scientist Award

Awarding the 4th Young Scientist Award will 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 forth time in 2022. 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 16.01.2022 ==> extended to 31.01.2022 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](#) and also in [HLEM Program Flyer](#).



Key Dates Measurements & Meeting:

- **Start of measurements:**

1 July 2021 - still running

- **Application for measurements:**

is opened

- **Abstract deadline „none measurement contributions“:**

30 October 2021 - extended 3 December 2021

- **Deadline for performing measurements:**

15 December 2021 - extended 6 February 2022

- **Deadline to submit measured data:**

Not later than 2 weeks after end of your measurement period

- **Deadline to submit author & title:**

30 October 2021 - extended 3 December 2021

Exhibition:

- **Deadline registration for industrial exhibition:**

1 March 2022 (first come first serve)

Participation:

- **Start registration:**

Autum 2021 ([download registration form here](#))

■ Deadline registration:

1 March 2022

Organizational Details

Date of Meeting:

15 - 16 March 2022

Language:

english

Registration:

Please register by letter, fax or E-Mail using the [registration form](#).

Following this you will receive an invoice and confirmation.

Attendance fee:

Lecturers: € 225 (1st person)

Members: € 225

W3+ Exhibitors: € 475

Wetzlar Network Partner: € 475

Non-members / others: € 625

Please pay in advance after you have received the invoice.

Recommended Accomodation: ==> not necessary in 2022

Get Together: ==> not planned in 2022

Conference Dinner: ==> not planned in 2022

Conference Location: ==> **ONLINE**

Travel: ==> not necessary in 2022

Download:

Learn more about [all downloadable files of this event here](#)

Contact:

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