10th HLEM 2019 - High Level Expert Meeting Asphere Metrology on Joint Investigations

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Title	10th HLEM 2019 - High Level Expert Meeting Asphere Metrology on Joint Investigations
When	Di, 19. März 2019 - Mi, 20. März 2019

Description



10th HLEM 2019 - High Level Expert Meeting Asphere Metrology on Joint Investigations

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. Particularly 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 2018, HLEM 2017**; **Workshop 2016**; **HLEM 2015**; **HLEM 2013**; **Workshop 2012; HLEM 2012, HLEM 2010**)

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.

Our upcoming 10th HLEM 2019 is dedicated to the presentation of measurement results of current lenses, 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 Asphericon GmbH (Jena), Berliner Glas (Berlin), IOM (Leipzig) and Physikalisch-Technische Bundesanstalt (Braunschweig). The new marks on the samples were realized by NTG GmbH (Gelnhausen).

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

- standard asphere (UPOB #3) - new - with marker
- precision cylinder (UPOB #5)
- convex toroid (UPOB #6) - new - with marker
- wild freeform (UPOB #7)

Due to the demand of the participants a CGH for lens #3 (standard asphere) is available!

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 2019

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

Main Topic:

■ Presentation of the results of the round robin

Additional Topis:

■ The effect of marks on the sample

■ New developments in measuring techniques for aspherical, free-form and cylindrical lenses

■ Clamping technologies for measurements in aspherical lens production

■ Standardization in the description of aspheres and free-form surfaces

■ In situ measurements in complex UP processing lines for aspherical or free-form surfaces

■ Measurements of aspherical surfaces of moulding tools for glass and plastic lenses

■ The influence of coatings on the measurement of aspheric and free-form lenses

■ 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 programme!

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 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 2019 - Young Scientist Award

Awarding the 2nd 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 second time in 2019. 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 15.01.2019 (extended to) 28.01.2019 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:
3 April 2018

■ Application for Measurements:
is Opened

■ Abstract Deadline „None Measurement Contributions“:
15 October 2018 extended to 21 October 2018

■ Deadline for Performing Measurements:
15 December 2018

■ Deadline for Submission of measured data for comparison:
No later than 4 weeks after end of your measurement period

■ Deadline for Submission of Author & Title:
29 October 2018

Exhibition:

■ Deadline Registration for Industrial Exhibition:
1 February 2019

Participation:

■ Start Registration:
Autum 2018 (download registration form here)

■ Deadline Registration:
5 March 2019 extended to 18 March 2019

Organizational Details

Date of Meeting:
19 - 20 March 2019

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: € 150 (1 Person)
Members: € 150
Non-members: € 525

Please pay in advance after you have received the invoice.

Accomodation:
By following booking link you will find recommended accomodation:

This hotel contingent was avaliable until 14 February 2019!
~~http://web4.deskline.net/HLEM2019/en/accommodation/qfind?selNumberOfUnits=1&selArrivalDate=20190318&selNights=1&selAdultsSearchline1=1&customMarker=&customMarkerLat=&customMarkerLong=~~

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:
18 March 2019: Start: 19:00
We will come together in Restaurant District
It is located in Ziegenmarkt 1 - 2, 38100 Braunschweig
Phone: +49 531-4811411
Please use this link for navigation!

Conference Dinner:
19 March 2019: Start: 19:00
We will come together in Restaurant Gastwerk Braunschweig
It is located in Panther Business Center; Mittelweg 7;38106 Braunschweig
Phone: +49 531-2371200
Please use this link for navigation!

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:

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