



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



Kompetenzzentrum
Ultrapräzise
Oberflächen-
bearbeitung e.V.

YSA 2023

We are offering the Young Scientist Award for the fifth time in 2023. Young scientists (up to age 30) within the field of ultra-precise surface engineering will present their work in the plenum with a 5-minute slide presentation and during a poster session.

Vote Your Young Scientist 2023!

Who was the best? After the poster sessions it is up to you: elect the candidate of your choice!

The award ceremony will take place during this year's HLEM.

Key Dates

Measurement Schedule	Dates
Application for measurements	Open
Start of measurements	1 August 2022
Deadline for submission of author and title	30 September 2022
Deadline for performing measurements	15 December 2022
Deadline to submit your measured data for comparison	2 weeks after the end of your measurement period
Deadlines for Non-Measurement Contributions	
Abstracts	30 September 2022
Registration for Industrial Exhibition	1 February 2023
Exhibition stands are assigned according to the principle: first come first serve.	
Participation Schedule	
Registration start	1 August 2022
Registration deadline	15 March 2023 (extended)

Organizational Details

Date	28 - 29 March 2023
Language	English
Registration	By letter, fax or e-mail using the registration form available at www.upob.de . You will receive a confirmation.
Accommodation	www.upob.de/Veranstaltungen
Attendance fee	
Lecturers	€ 250 (1 st person)
Members	€ 250
W3+FAIR Exhibitors	€ 500
Wetzlar Network	€ 500
Non-members	€ 650
Please pay in advance after you have received the invoice.	

Contact

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Programme Committee

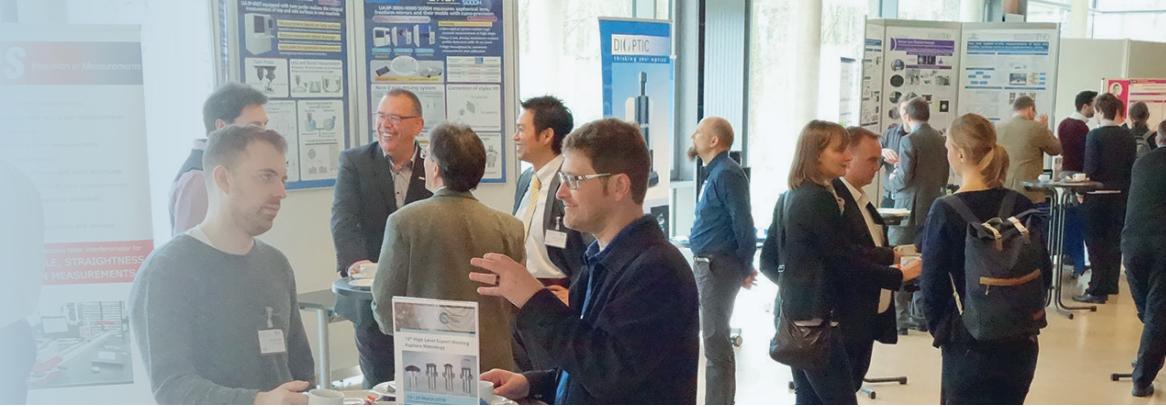
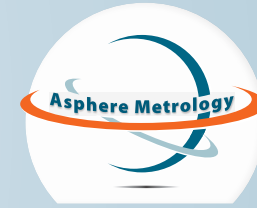
Jean-Michel Asfour; Dioptic GmbH,
Andreas Beutler; Mahr GmbH
Harald Bosse; CC UPOB e.V.
Ines Fortmeier; PTB
Thomas Franz; NTG GmbH & Co. KG
Rudolf Meeß; CC UPOB e.V.
Oltmann Riemer; Leibniz-Institut IWT

13th High-Level Expert Meeting Asphere Metrology on Joint Investigations

28 - 29 March 2023, Buderus Arena, Wetzlar



13th High-Level Expert Meeting Asphere Metrology on Joint Investigations



Background

Our series of High-Level Expert Meetings (HLEM) has cultivated excellent exchanges between experts in aspheric metrology for more than a decade. We have always been very proud to welcome academia and leading manufacturers of measurement devices as driving forces in all our events. They have shared progress on a high scientific level. Asphere metrology has become more comparable and precise with all their input. In addition, the metrology user has been able to learn about various measurement systems and their potential and thus has benefited from our series of events too.

We will continue to meet this high standard with our next HLEM in 2023. The very important round-robin measurements will place in the run-up to the event with 5 lenses. In addition, as accompanying topics are planned this time:

- Measurement of small optics, e.g. for endoscopes and mobile phones,
- Inner centration of aspheres,
- Measurement of unmounted aspheres,
- Developments in measuring techniques for aspherical, free-form and cylindrical lenses.

Your contributions are very welcome!

The 5th Young Scientist Award (YSA) and our popular exhibition area of participating companies will round off the program.

Would you like to...

- participate in the measurements?
- give a lecture on the planned topics?
- present your institution at the company exhibition?
- get one of the awards?

Please register and feel free to contact us!

Programme

28 March 2023

11:00 Welcome to HLEM 2023 – Conference Opening, Overview and Outlook
Harald Bosse, CC UPOB e.V., Germany

YSA 2023 – 5th Young Scientist Award 2023
Introduction and Short Lectures of Nominated Young Scientists from Ultra-Precision Surface Engineering
Moderation by *Oltmann Riemer, Leibniz – IWT, Germany*
and *Nominated Speakers from Different Institutions*

Introduction to HLEM 2023 – Short Overview on Samples and Background of Measurements
Jean-Michel Asfour, DIOPTIC GmbH, Germany

Session
Round Robin: Measurement Technologies and Results

Panasonic UA3P: UPOB Sample Results – Technical News About the UA3P System
Tomofumi Morishita, Panasonic, Japan

Lunch and Coffee Break, Technical Exhibition and YSA Poster Session

Precision Measurement of Small Optics Including Relational Datum Parameters by use of a Scanning Point
Marc Wendel, Taylor Hobson, Germany

Capabilities of Multi-Sensor Technologies for the Measurement of Molds and Complex Optics
Mario Fischer, Mahr GmbH, Germany

Round Robin HLEM 2023 – Measurement of Aspheric Lenses by New VSPOT Technology
Ronald Kometer, Hofbauer Optik Mess-& Prüftechnik, Germany

Simple Centering Technology on Aspheres – also Double-Sided
Engelbert Hofbauer, Hofbauer Optik Mess-& Prüftechnik, Germany

Coffee Break, Technical Exhibition and YSA Poster Session

Recent Measurements on Aspherical Test Samples
Cord Brüggemann, Fisba AG, Switzerland

Centration Measurements of Double-Sided Aspheres
Andreas Kerkmann, Trioptics GmbH, Germany

Comparison Results of Form and Inner Centration Measurements of Double-Sided Aspheres
Ines Fortmeier, Physikalisch-Technische Bundesanstalt, Germany

Discussion on Comparison and Summary Session Chair
17:30 Closing of First Day
Session Chair

19:00 Conference Dinner in Local Restaurant in Wetzlar
Please find details on www.upob.de

Programme

29 March 2023

9:30 Opening of Second Day
Session Chair

Session
Additional Topics

European Metrology Network for Advanced Manufacturing
Harald Bosse, Physikalisch-Technische Bundesanstalt, Germany

Plasma Jet Polishing of Freeform Optics
Thomas Arnold, Leibniz Institute of Surface Engineering – IOM, Germany

Metrology in Additive Micro-Optic Fabrication
Joshua Trapp, University Stuttgart – ITO, Germany

Coffee Break, Technical Exhibition and YSA Poster Session

Data Transport in the Production Chain of Freeform Optical Components
Andreas Beutler, Mahr GmbH, Germany

YSA 2023 – Young Scientist Award **Ceremony**
Moderation by Session Chair

12:45 Summary and Final Discussion
Session Chair

12:55 Conference Closing and Outlook
Harald Bosse, CC UPOB e.V., Germany

13:00 End of HLEM, Light Lunch and Visit of the W3+ FAIR

17:30 Good Bye W3+ FAIR-Apero in Foyer of Buderus Arena
Please find details on www.upob.de

