



13th HLEM 2023 – Asphere Metrology Detailed Program

V 3.0

DAY 1	Tuesday, March 28th, 2023 <i>Chair: Harald Bosse, CC UPOB e.V., Germany</i>	Morning
10:00	Arrival Registration Welcome Coffee Technical Exhibition	
11:00	Welcome to HLEM 2023 – Conference Opening, Overview and Outlook <i>Harald Bosse, CC UPOB e.V., Germany</i>	
11:15	The Revolution of Free-Form Micro-Optics: From Design and Prototyping to Replication and Metrology <i>Jessica van Heck, PHABULOUS Pilot Line Association; Switzerland</i>	
11:45	Introduction to HLEM 2023 – Short Overview on Samples and Background of Measurements <i>Jean-Michel Asfour, DIOPTIC GmbH, Germany</i>	



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DAY 1	Tuesday, March 28 th , 2023 Session - Round Robin: Measurement Technologies and Results <i>Chair: Jean-Michel Asfour, DIOPTIC GmbH, Germany</i>	Afternoon
12:00	Panasonic UA3P: UPOB Sample Results – Technical News About the UA3P System <i>Tomofumi Morishita, Panasonic, Japan</i>	
12:30	Lunch, Coffee Break and Technical Exhibition	group photo time!
13:30	Precision Measurement of Small Optics Including Relational Datum Parameters by use of a Scanning Point <i>Marc Wendel, Taylor Hobson, Germany</i>	
14:00	Capabilities of Multi-Sensor Technologies for the Measurement of Molds and Complex Optics <i>Mario Fischer, Mahr GmbH, Germany</i>	
14:30	Round Robin HLEM 2023 – Measurement of Aspheric Lenses by New VSPOT Technology <i>Ronald Kometer, Hofbauer Optik Mess-& Prüftechnik, Germany</i>	
14:55	Simple Centering Technology on Aspheres – also Double-Sided <i>Engelbert Hofbauer, Hofbauer Optik Mess-& Prüftechnik, Germany</i>	
15:05	Coffee Break and Technical Exhibition	



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15:05	Coffee Break and Technical Exhibition	
15:45	Recent Measurements on Aspherical Test Samples <i>Cord Brüggemann, Fisba AG, Switzerland</i>	
16:15	Centration Measurements of Double-Sided Aspheres <i>Andreas Kerkmann, Trioptics GmbH, Germany</i>	
16:45	Comparison Results of Form and Inner Centration Measurements of Double-Sided Aspheres <i>Ines Fortmeier, Physikalisch-Technische Bundesanstalt, Germany</i>	
17:15	Discussion on Comparison and Summary <i>Session Chair</i>	
17:30	Closing of First Day <i>Session Chair</i>	
19:00	Conference Dinner in Local Restaurant in Wetzlar Please find details on www.upob.de	
23:30	Good Night!	



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DAY 2	Wednesday, March 29th, 2023 Session - Additional Topics <i>Chair: Oltmann Riemer,</i> <i>Leibniz-Institut für Werkstofforientierte Technologien - IWT, Germany</i>	Morning
8:45	Welcome Coffee and Technical Exhibition	
9:30	Opening of Second Day <i>Session Chair</i>	
9:35	European Metrology Network for Advanced Manufacturing <i>Harald Bosse, Physikalisch-Technische Bundesanstalt, Germany</i>	
10:05	Plasma Jet Polishing of Freeform Optics <i>Thomas Arnold, Leibniz Institute of Surface Engineering – IOM, Germany</i>	
10:35	Metrology in Additive Micro-Optic Fabrication <i>Joshua Trapp, University Stuttgart – ITO, Germany</i>	
11:00	Coffee Break and Technical Exhibition	Survey 11:00-13:00



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11:00	Coffee Break and Technical Exhibition	Survey 11:00-13:00
11:45	Data Transport in the Production Chain of Freeform Optical Components <i>Andreas Beutler, Mahr GmbH, Germany</i>	
12:15	Summary and Final Discussion <i>Session Chair</i>	
12:30	Conference Closing and Outlook <i>Harald Bosse, CC UPOB e.V., Germany</i>	
13:00	End of HLEM and Visit of the W3+FAIR Light Lunch	
17:30	Good Bye W3+ FAIR-Apero in Foyer of Buderus Arena in Wetzlar Please find Details on www.upob.de	