



11 HLEM 2021 – Asphere Metrology Detailed Programme

V3.0

DAY 1	Tuesday, 16 March 2021	Evening
Start: 10:00-11:00	1 st Technical Check, Setup and Testing	
15:30-16:30	2 nd Technical Check, Setup and Testing	

DAY 2	Wednesday, 17 March 2021 <i>Chair: Andreas Beutler; Mahr GmbH Göttingen; Germany</i>	Morning
8:45	Opening of the Meeting Room and Technical Check	
9:30	Welcome to HLEM 2021 - Conference Opening, Overview and Outlook <i>Frank Löffler; CC UPOB e.V.; Germany</i>	
9:45	YSA 2021 – Young Scientist Award 2021 Introduction and Short Lectures of Nominated Young Scientists from Ultra-Precision Surface Engineering <i>Moderation by Chair: Andreas Beutler; Mahr GmbH Göttingen; Germany and Nominated Speakers from Different Institutions</i>	
10:15	Introduction to HLEM 2021 – Short Overview on Samples and Background of Measurements <i>Jean-Michel Asfour; DIOPTIC GmbH; Germany</i>	



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DAY 2	Wednesday, 17 March 2021 Session - Centring of Optical Components <i>Chair: Andreas Beutler; Mahr GmbH Göttingen; Germany</i>	Morning
10:30	Centration Testing of Lenses - An Overview <i>Felix Hahne; Trioptics GmbH; Germany</i>	
11:00	Refreshment Break Breakout Rooms - YSA Poster / Technical Exhibition	group photo time!
11:45	CGH Based Precision Test of the Inner Centration of a Biconvex Asphere <i>Frank Weidner; Dioptic GmbH; Germany</i>	
12:10	Centration Measurements by Trioptics <i>Felix Hahne; Trioptics GmbH; Germany</i>	
12:35	A new Approach to Shape and Centration Measurement on Aspheres with New V-SPOT Technology <i>Engelbert Hofbauer and Ronald Kometer; Hofbauer-Optik Mess- und Prüftechnik; Germany</i>	
13:00	Lunch Break Breakout Rooms - YSA Poster / Technical Exhibition	



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DAY 2	Wednesday, 17 March 2021 Session - Additional Topics <i>Chair: : Jean-Michel Asfour; Dioptic GmbH; Germany</i>	Afternoon
13:00	Lunch Break Breakout Rooms - YSA Poster / Technical Exhibition	
14:00	Project 'Free-Form Measurement': Description of Standardized Measurement Procedures for Asphere Testing Using Pointwise Measurement Techniques <i>Hanno Dierke; Technical University Braunschweig, Germany</i>	
14:25	Ion Beam Finishing of Optical Aluminium Surfaces <i>Thomas Arnold; Leibniz Institut für Oberflächenmodifizierung - IOM; Germany</i>	
14:45	Asphere Metrology in EOSG <i>Janet Lim; Edmund Optics Singapore, Singapore</i>	
15:05	Absolute Interferometry for Asphere Metrology <i>Jan Kredba, TOPTEC; Czech Republic</i>	
15:35	Refreshment Break Breakout Rooms - YSA Poster / Technical Exhibition	



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15:35	Refreshment Break Breakout Rooms - YSA Poster / Technical Exhibition	
16:20	Characterization of Transmissive Segmented Freeform Optics using Experimental Ray Tracing <i>Tobias Binkele; Hochschule Bremen, Germany</i>	
16:45	Retrace Error Compensation in Absolute Interferometric Testing <i>Marek Stašík, TOPTec; Czech Republic</i>	
17:10	Summary and Final Discussion <i>Session Chair</i>	
17:30	Closing of First Day <i>Session Chair</i>	



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DAY 3	Thursday, 18 March 2021 Session - UP-Manufacturing Processes <i>Chair: Oltmann Riemer;</i> <i>Leibniz-Institut für Werkstofforientierte Technologien - IWT; Germany</i>	Morning
9:00	Opening of the Meeting Room and Technical Check	
9:30	Opening of Second Day <i>Session Chair</i>	
9:35	UP Manufacturing of Challenging Optical Functional Surfaces <i>Kurt Haskic; LT Ultra-Precision Technology GmbH; Germany</i>	
10:00	Manufacturing of Ultra Precision Surfaces in Hardened Steel <i>Benjamin Bulla; son-x GmbH; Germany</i>	
10:25	A Study of the Micro-Structure of Diamond Turned Surfaces and Generation of Diffraction Color <i>Takeshi Hashimoto; AMETEK GmbH; Germany</i>	
10:50	Refreshment Break Breakout Rooms - YSA Poster / Technical Exhibition	



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DAY 3	Thursday, 18 March 2021 S e s s i o n - Different Measuring Techniques <i>Chair: Oltmann Riemer;</i> <i>Leibniz-Institut für Werkstofforientierte Technologien - IWT; Germany</i>	Morning
11:35	Comparison of Interferometric- and Point Sensor Measurement of Complex Optics <i>Tobias Schröter; Mahr GmbH; Germany</i>	
12:00	Non-Contact 3D Form Measurement of Complex Geometries by a Multi-Wavelength Interferometer <i>Marc Wendel; Taylor Hobson; Germany</i>	
12:25	Advanced 3D Profile Measurement Methods for Optical Devices by UA3P <i>Reinhard Windemuth;</i> <i>Panasonic Industry Europe GmbH; Germany</i>	
12:50	NMF600 S Measurement Performance on UPOB Samples and Other Challenging Optics <i>Rens Henselmans; Dutch United Instruments; The Netherlands</i>	
13:15	Lunch Break Breakout Rooms - YSA Poster / Technical Exhibition	



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14:15	HLEM 2021 - Measurements at ITO <i>Christof Pruss; University Stuttgart - ITO; Germany</i>	
14:40	Comparison Requirements and Current Results <i>Ines Fortmeier; Physikalisch-Technische Bundesanstalt; Germany</i>	
15:10	Discussion on Comparison <i>Moderation by Oltmann Riemer; Leibniz-Institut für Werkstofforientierte Technologien - IWT; Germany</i>	
15:25	YSA 2021 – Young Scientist Award Ceremony <i>Moderation by Oltmann Riemer; Leibniz-Institut für Werkstofforientierte Technologien - IWT; Germany</i>	
15:50	Conference Closing and Outlook <i>Session Chair</i>	
16:00	End of Event	