



12th HLEM 2022 – Asphere Metrology Detailed Programme

V1.5

DAY -1	Monday, 14 March 2022	Evening
10:00-11:00	1 st Technical Check, Setup and Testing	
15:30-16:30	2 nd Technical Check, Setup and Testing	

DAY 1	Tuesday, 15 March 2022 <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 2022 - Conference Opening, Overview and Outlook <i>Frank Löffler, CC UPOB e.V., Germany</i>	
9:45	YSA 2022 – Young Scientist Award 2022 Introduction and Short Lectures of Nominated Young Scientists from Ultra-Precision Surface Engineering <i>Moderation by Chair: Andreas Beutler, Mahr GmbH, Germany and Nominated Speakers from Different Institutions</i>	
10:15	Introduction to HLEM 2022 – Short Overview on Samples and Background of Measurements <i>Jean-Michel Asfour, DIOPTIC GmbH, Germany</i>	



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DAY 1	Tuesday, 15 March 2022 Session - Round Robin: Measurement Technologies and Results <i>Chair: Andreas Beutler, Mahr GmbH Göttingen, Germany</i>	Morning
10:30	Panasonic UA3P: UPOB Sample Results – Technical News About the UA3P System <i>Reinhard Windemuth, Panasonic Connect Europe GmbH, Germany</i>	
11:00	Refreshment Break Breakout Rooms - YSA Poster / Technical Exhibition	group photo time!
11:45	Non-Contact 3D Form Measurement of Large Optics by a Scanning Point Multi-Wavelength Interferometer <i>Marc Wendel, Taylor Hobson, Germany</i>	
12:15	New Features for the NMF Platform Range of Machines <i>Rens Henselmans, Dutch United Instruments, The Netherlands</i>	
12:45	Further Developments in Shape and Centration Measurement on Aspheres with New V-SPOT Technology <i>Engelbert Hofbauer and Ronald Kometer, Hofbauer-Optik Mess- und Prüftechnik, Germany</i>	
13:10	Lunch Break Breakout Rooms - YSA Poster / Technical Exhibition	



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DAY 1	Tuesday, 15 March 2022 Session - Round Robin: Measurement Technologies and Results <i>Chair: Andreas Beutler, Mahr GmbH Göttingen, Germany</i>	Afternoon
13:10	Lunch Break Breakout Rooms - YSA Poster / Technical Exhibition	
14:10	Capabilities of Point Scanning Techniques and Non-Null Interferometry for the Measurement of Complex Optics <i>Andreas Beutler, Mahr GmbH, Germany</i>	
14:40	Misalignment in Asphere and Freeform Metrology <i>Antonia Gronle, University Stuttgart - ITO, Germany</i>	
15:05	Asphere and Free-Form Measurement Comparison <i>Ines Fortmeier, Physikalisch-Technische Bundesanstalt, Germany</i>	
15:35	Discussion on Comparison and Summary <i>Session Chair</i>	
15:50	Closing of First Day <i>Session Chair</i> Breakout Rooms remain open	



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DAY 2	Wednesday, 16 March 2022 Session - Coating of Aspheres <i>Chair: Jean-Michel Asfour, Dioptic GmbH, Germany</i>	Morning
8:45	Opening of the Meeting Room and Technical Check	
9:30	Opening of Second Day and Start of Discussion on Coated Components and Comparison <i>Session Chair</i>	
9:35	Coating of Optical Components by Help of a Digital Twin <i>Chris Britze, Fraunhofer IST, Germany</i>	
10:00	The Dielectrically Coated HAPLS Petawatt Laser Beam Transport Optics of ELI Beamlines <i>Stefan Borneis, Institute of Physics of the ASCR, ELI Beamlines Project, Czech Republic and GSI Helmholtzzentrum für Schwerionenforschung GmbH, Germany</i>	
10:25	Conformal Coating with Atomic Layer Deposition <i>Tobias Graumann, Fraunhofer IST, Germany</i>	
10:50	Refreshment Break Breakout Rooms - YSA Poster / Technical Exhibition	Voting YSA 10:50-11:35



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DAY 2	Wednesday, 16 March 2022 Session - Additional Topics <i>Chair: Oltmann Riemer,</i> <i>Leibniz-Institut für Werkstofforientierte Technologien - IWT, Germany</i>	Morning
10:50	Refreshment Break Breakout Rooms - YSA Poster / Technical Exhibition	Voting YSA 10:50-11:35
11:35	Measurement of Inner Centration of an Asphere with CGH Compared to the Optical Profilometer LuphoScan <i>Jean-Michel Asfour, Dioptic GmbH, Germany</i>	
12:00	Active Display Registration in Phase Measuring Deflectometry <i>Yann Sperling, BIAS - Bremer Institut für angewandte Strahltechnik GmbH, Germany</i>	
12:25	Project 'Free-Form Measurement': Standardized Measurement Procedures for Asphere Testing Using Pointwise Measurement Techniques <i>Hanno Dierke, Technische Universität Braunschweig, Germany</i>	
12:50	Lunch Break Breakout Rooms - YSA Poster / Technical Exhibition	Survey 12:50-13:50



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12:50	Lunch Break Breakout Rooms - YSA Poster / Technical Exhibition	Survey 12:50-13:50
13:50	Flexible Interferometric Form Measurement with Large Illumination Apertures Using Multiple Aperture Shear- Interferometry <i>Andre Fabian Müller, BIAS - Bremer Institut für angewandte Strahltechnik GmbH, Germany</i>	
14:15	YSA 2022 – Young Scientist Award Ceremony <i>Moderation by Andreas Beutler, Mahr GmbH Göttingen, Germany</i>	
14:40	Survey Results, Summary and Final Discussion <i>Session Chair</i>	
14:50	Conference Closing and Outlook <i>Session Chair</i>	
15:00	End of Event Breakout Rooms remain open	