



# 10 HLEM 2019 - ASPHERE METROLOGY DETAILED PROGRAMME

Version 7.1 - as of 12 March 2019

<b>DAY -1</b>	<b>Monday, 18 March 2019</b>	<b>Evening</b>
<b>Start: 19:00</b>	<b>Get Together in Restaurant District <a href="http://www.district-bs.de/">http://www.district-bs.de/</a></b>	
	<b><u>Recommended Accomodation</u></b> <u>Best Western City Hotel, Hotel Deutsches Haus, Hotel Fürstenhof, Mercure Atrium Hotel, Vienna House Easy Braunschweig</u>	

<b>DAY 1</b>	<b>Tuesday, 19 March 2019</b> <i>Chair: Oltmann Riemer; Leibniz-Institut für Werkstofforientierte Technologien - IWT; Germany</i>	<b>Morning</b>
<b>8:45</b>	<b>Arrival, Registration, Welcome Coffee</b>	
<b>9:30</b>	<b>Welcome to HLEM 2019 - Conference Opening, Overview and Outlook</b> <i>Frank Löffler; CC UPOB e.V.; Germany</i>	
<b>9:45</b>	<b>YSA 2019 – Young Scientist Award 2019 Introduction and Short Lectures of Nominated Young Scientists from Ultra-Precision Surface Engineering</b> <i>Moderation by Oltmann Riemer; Leibniz-Institut für Werkstofforientierte Technologien - IWT; Germany and Nominated Speakers from Different Institutions</i>	
<b>10:15</b>	<b>Introduction to HLEM 2019 – Short Overview on Samples and Background of Measurements</b> <i>Jean-Michel Asfour; DIOPTIC GmbH; Germany; and David Schäfer, NTG GmbH &amp; Co. KG; Germany</i>	



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DAY 1	<b>Tuesday, 19 March 2019</b> <b>Session - Additional Topics</b> <i>Chair: Oltmann Riemer;</i> <i>Leibniz-Institut für Werkstofforientierte Technologien - IWT;</i> <i>Germany</i>	Morning
10:30	<b>Clamping System for Optical Components for Adaptation in Optics Production</b> <i>Sebastian Sitzberger;</i> <i>Technische Hochschule Deggendorf; Germany</i>	
11:00	<b>Coffee Break, Technical Exhibition and YSA Poster Session</b>	
11:45	<b>Absolute Hartmann Type Wavefront Metrology</b> <i>Jean-Michel Asfour; DIOPTIC GmbH; Germany</i>	
12:10	<b>Measuring Aspherical Focusing Mirrors for Application in the VUV/XUV-and Hard-X-ray Range – a Comparison</b> <i>Frank Siewert; Helmholtz Zentrum Berlin; Germany</i>	
12:35	<b>Fast and Reliable In-Situ Measurement of Large and Complex Surfaces Using a Novel Deflectometric Device</b> <i>Ronald Kometer;</i> <i>Hofbauer-Optik, Mess- und Prüftechnik; Germany</i>	
13:00	<b>Lunch and Coffee Break, Technical Exhibition and YSA Poster Session</b>	



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DAY 1	Tuesday, 19 March 2019 <b>Session - Additional Topics</b> <i>Chair: Jean-Michel Asfour; DIOPTIC GmbH; Germany</i>	Afternoon
13:00	<b>Lunch and Coffee Break, Technical Exhibition and YSA Poster Session</b>	
14:00	<b>NPMM200 – An Open Research Facility for Sensor Calibration on Nanometer Level</b> <i>Christof Pruss; ITO - University Stuttgart, Germany</i>	
	<b>Session - Tactile Measuring Techniques</b> <i>Chair: Jean-Michel Asfour; DIOPTIC GmbH; Germany</i>	
14:25	<b>Round Robin Test by UA3P</b> <i>Tomofumi Morishita; Panasonic Production Engineering Co., Ltd; Japan</i>	
14:50	<b>Potential of Free-Form Measurements with Different Types of Instruments</b> <i>Andreas Beutler; Mahr GmbH Göttingen; Germany</i>	
	<b>Session - Interferometry Based Techniques</b> <i>Chair: Jean-Michel Asfour; DIOPTIC GmbH; Germany</i>	
15:15	<b>A New Approach to Surface Shape and Centering Measurement on Aspheres with the New V-SPOT Technology on Sample #3</b> <i>Engelbert Hofbauer; Hofbauer-Optik, Mess- und Prüftechnik; Germany</i>	
15:35	<b>Coffee Break, Technical Exhibition and YSA Poster Session</b>	



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	<b>Tuesday, 19 March 2019</b> <b>Session - Interferometry Based Techniques</b> <i>Chair: Jean-Michel Asfour; DIOPTIC GmbH; Germany</i>	<b>Afternoon</b>
15:35	<b>Coffee Break, Technical Exhibition and YSA Poster Session</b>	
16:20	<b>CGH-Based Interferometer Measurements of Round Robin Asphere #3</b> <i>Frank Weidner; DIOPTIC GmbH; Germany</i>	
16:40	<b>Non-Contact 3D Form Measurement of Aspheres and Free-Forms Based on a Scanning Point Interferometer</b> <i>Marc Wendel; AMETEK GmbH – Business Division Taylor Hobson / Lumphos; Germany</i>	
17:05	<b>Transforming NANOMEFOS into NMF600S: High Accuracy, Speed and Point Density on Large Wild Free-Forms</b> <i>Rens Henselmans; Dutch United Instruments; The Netherlands</i>	
17:30	<b>Summary and Closing of First Day</b> <i>Session Chair</i>	
19:00	<b>Conference Dinner in Restaurant Gastwerk Braunschweig</b> <a href="http://www.gastwerk.net/">http://www.gastwerk.net/</a>	
23:30	<b>Good Night!</b>	



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DAY 2	<b>Wednesday, 20 March 2019</b> <b>Session - Different Measuring Techniques</b> <i>Chair: Andreas Beutler; Mahr GmbH Göttingen; Germany</i>	Morning
9:00	<b>Welcome Coffee, Technical Exhibition and YSA Poster Session</b>	
9:30	<b>Opening of Second Day</b> <i>Session Chair</i>	
9:35	<b>Deflectometry on Complex Surfaces with Compensation of Display Shape Deviations</b> <i>Jonas Bartsch; BIAS - Bremer Institut für angewandte Strahltechnik GmbH; Germany</i>	
10:00	<b>High Precision Asphere and Free-Form Manufacturing at Optimax Systems</b> <i>Michael Gregory; OPTIMAX; United States</i>	
10:25	<b>Asphere and Free-Form Fabrication and Testing at ZYGO</b> <i>Thomas Dresel; Zygo Corporation; United States</i>	
10:50	<b>Coffee Break, Technical Exhibition and YSA Poster Session</b>	
11:35	<b>Advanced Measurement of Free-Form Surfaces Using Experimental Ray Tracing</b> <i>Tobias Binkele; Hochschule Bremen – City University of Applied Sciences; Germany</i>	



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12:00	<b>Intercomparison of Measurement Results</b> <i>Katherina Janzen; Physikalisch-Technische Bundesanstalt; Germany</i>	
12:30	<b>YSA 2019 – Young Scientist Award 2019 Ceremony</b> <i>Moderation by Andreas Beutler; Mahr GmbH Göttingen; Germany</i>	
13:00	<b>Conference Closing and Outlook</b> <i>Session Chair</i>	
13:15	<b>Lunch and Coffee</b> <b>End of Event and Departure</b>	