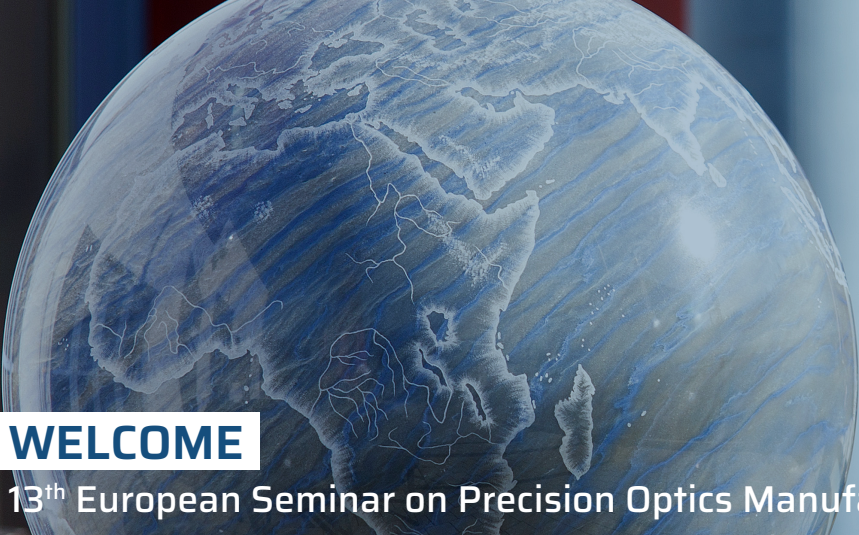


## INVITATION

October 7<sup>th</sup> - October 8<sup>th</sup> 2026

13<sup>th</sup> European Seminar on Precision Optics Manufacturing



**WELCOME**

## 13<sup>th</sup> European Seminar on Precision Optics Manufacturing



EUROPEAN UNION  
Investing in our Future  
European Regional  
Development Fund

13<sup>th</sup> European Seminar on Precision Optics Manufacturing, October 7<sup>th</sup> - 8<sup>th</sup> 2026  
Deggendorf Institute of Technology  
Campus Teisnach Optics, Germany

### Main topics

- Manufacturing and measurement of optics from mm- to m-range and optical systems: Processes for grinding, polishing, centering, assembly, handling, surface modification, cleaning and coating of optics
- Standards in optics manufacturing. Design of optics, error budgeting, fusion of optical and mechanical design, strategies for optical design within mechanical tolerances. Optical design SW: experiences, current developments, license models & alternatives
- Advanced and next generation technologies in high precision manufacturing: Ultraprecision machining, kinetic abrasive polishing, additive manufacturing, molding, new and special materials, next generation of giant optics manufacturing and testing
- Smart fusion of manufacturing and measurement of optics: Lessons learned in industry and research institutes in environment, media control, process stability, measurement, data handling and data mining
- Internet of things: Data handling and security within the value chain from optical design to manufacturing process, optical systems and their integrity and vulnerabilities

### Conference language:

English

We are looking forward to meeting you at the 13<sup>th</sup> European Seminar on Precision Optics Manufacturing.

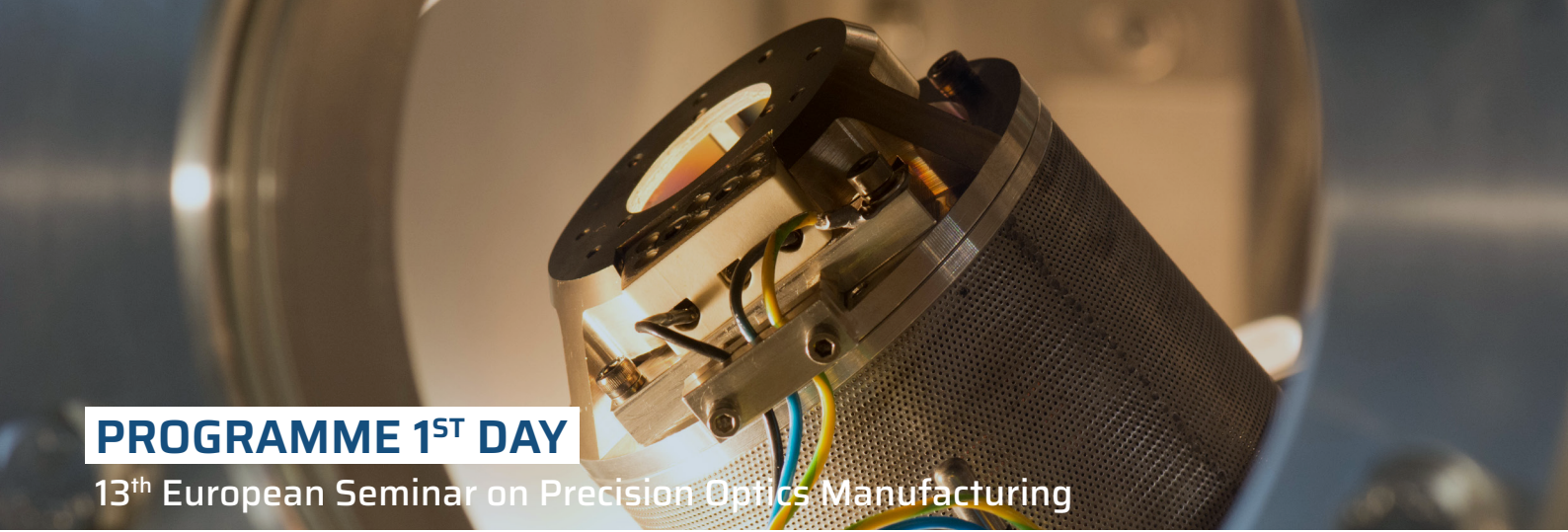
Yours sincerely,

A stylized, handwritten signature in blue ink, appearing to be "W. Berg".

Prof. Waldemar Berg

A handwritten signature in blue ink, reading "Gerald Fütterer".

Prof. Dr. Gerald Fütterer



## PROGRAMME 1<sup>ST</sup> DAY

### 13<sup>th</sup> European Seminar on Precision Optics Manufacturing

**Chairs:** Dr. Oliver Föhnle, PanDao GmbH  
Prof. Dr. Gerald Fütterer, DIT  
Prof. Dr. Ing. Christine Wünsche, DIT  
Prof. Dr. Helge Thieß, DIT  
Vít Lédli, Ph.D., TOPTEC

## 1<sup>ST</sup> DAY, WEDNESDAY, OCTOBER 7<sup>TH</sup> 2026

**9:30 CHECK-IN**

**10:15 WELCOME**

### **10:20 SESSION 1 - MANUFACTURING - GRINDING, LAPPING, POLISHING**

**Small steps towards sustainable optics manufacturing**

*Edda Rädlein, Technische Universität Ilmenau, DE*

**Polishing of inorganic-nonmetallic materials using additively manufactured tools**

*Schulze, Ernst Abbe Hochschule Jena, DE*

**Fixed abrasive lapping with Flexible 3M™ Trizact™ Diamond Tile**

*Christopher Russel, Universal Photonics, US*

**Final results from an automated robot-based overarm polishing cell (BeRoH)**

*Helge Thieß, Institute for Precision Manufacturing and High Frequency Technology, DE*

**Progress in Waveplate fabrication and measurement methods**

*Stefan Egle, SwissOptic AG, CH*

**Latest developments in SiC based optics manufacturing at OptoTech**

*Sebastian Stoebenau, OptoTech Optik GmbH, DE*

**13:00 LUNCH**

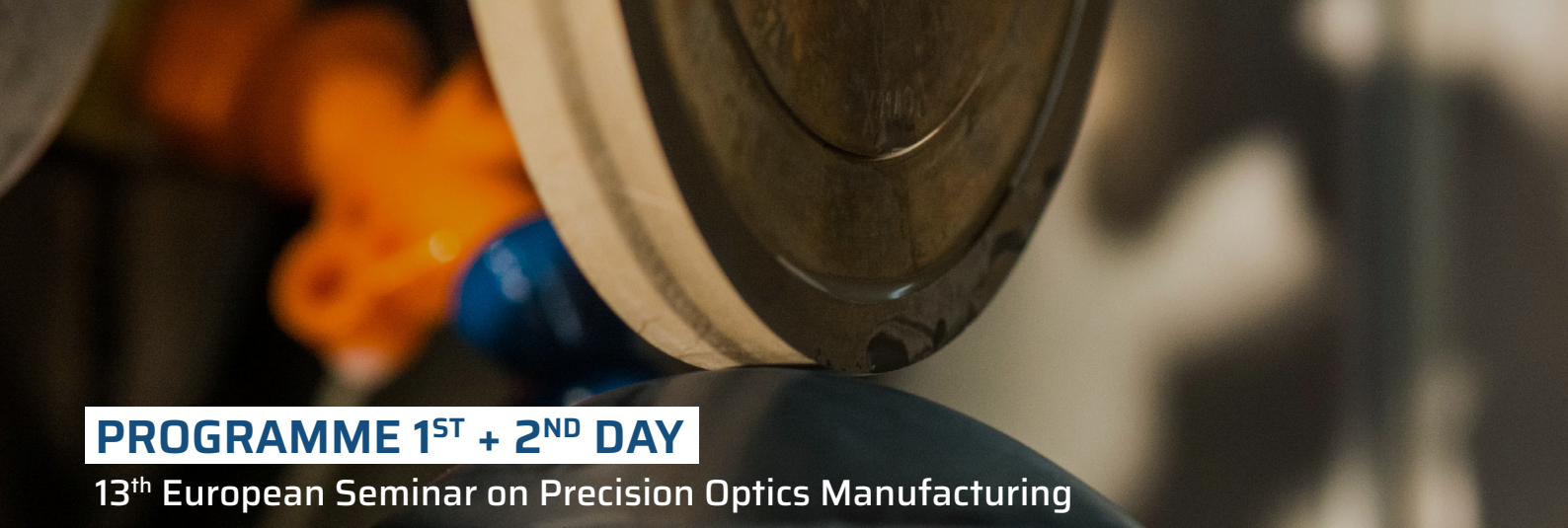
### **14:00 SESSION 2 - METROLOGY AND DIGITALIZATION**

**Testing asphere surface form by the point diffraction interferometer**

*Nikolay Voznesenskiy, Difrotec, EE*

**Advanced Fizeau Interferometry for Complex Optics: Wavelength Tuning, Absolute Metrology and Subaperture Stitching**

*Michal Jiránek, OPMET Labs s.r.o., CZ*



## PROGRAMME 1<sup>ST</sup> + 2<sup>ND</sup> DAY

### 13<sup>th</sup> European Seminar on Precision Optics Manufacturing

#### **Advanced Automated Optical Surface Inspection with Combined Dark- and Bright-Field Imaging**

*Jennifer Steinbiß, Dioptic GmbH, DE*

#### **15:15 - 16:00 COFFEE BREAK**

#### **Sub-Arcminute Centering of Aspheric Optics Using a Precision Mandrel Bonding Process and Reference-Based Finish Machining**

*Engelbert Hofbauer, Hofbauer Messtechnik GmbH, DE*

#### **System setup for the verification of changed microscopic images due to changed coherence properties**

*Gerald Fütterer, Institute for Precision Manufacturing and High Frequency Technology, DE*

#### **17:00 - 18:30 POSTER SESSION AND LAB TOUR**

#### **18:30 GET2GETHER - BAVARIAN EVENING**

## **2<sup>ND</sup> DAY, THURSDAY, OCTOBER 8<sup>TH</sup> 2026**

#### **08:30 SPEED DATING & COMPANY PRESENTATION, COFFEE**

#### **10:00 SESSION 3 - NEW METHODS FOR MANUFACTURING**

#### **Atmospheric plasma jet machining - wins and challenges for precision optics manufacturing**

*Heike Müller, Leibniz Institute of Surface Engineering, DE*

#### **Manufacturing of demanding optics and optical and optomechanical assemblies at Layertec: an overview of recent activities**

*Daniel Heinert, Layertec GmbH, DE*

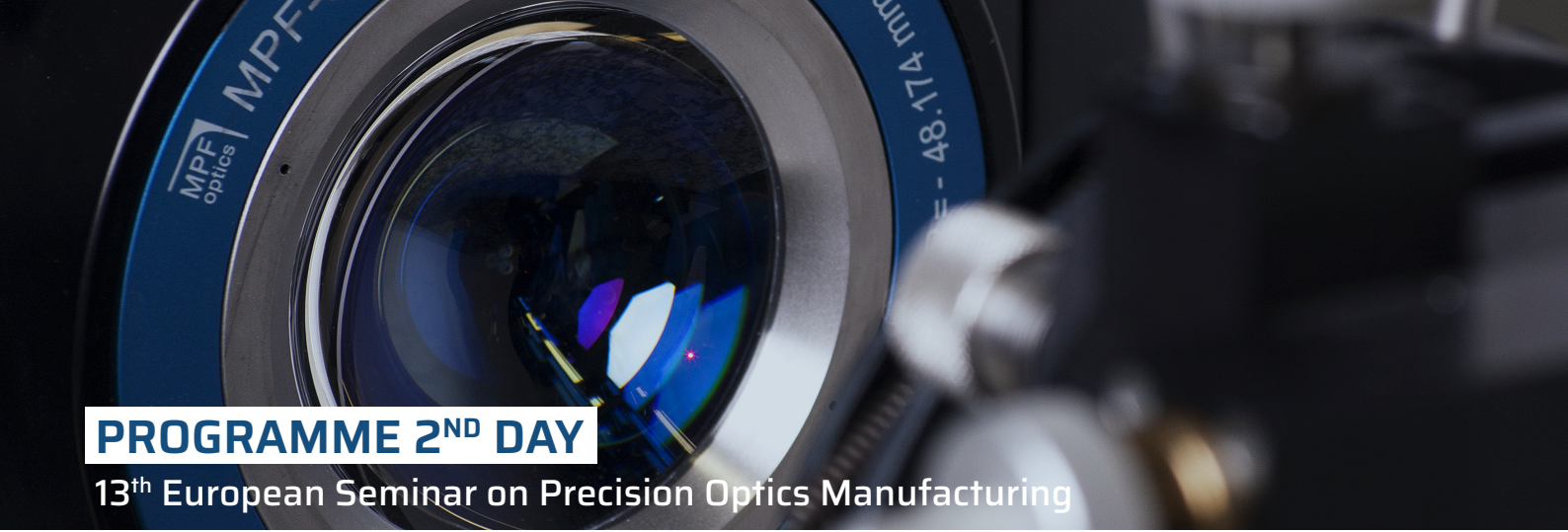
#### **Laser-based form generation and polishing for manufacturing of optical components**

*Astrid Saßmannhausen, Fraunhofer Institute for Laser Technology, DE*

#### **Towards Sustainable Grinding of Brittle Materials: An Experimental Study of Minimum Quantity Lubrication Strategies**

*Volha Kukso, Institute for Precision Manufacturing and High Frequency Technology, DE*

#### **11:45 LUNCH**



## PROGRAMME 2<sup>ND</sup> DAY

### 13<sup>th</sup> European Seminar on Precision Optics Manufacturing

12:45

#### SESSION 4 - CENTERING AND ALIGNMENT, OUTLOOK

##### **Accelerating Lens Objective Assembly: Dynamic Compensation on Standard Alignment Turning Stations**

*Patrik Langehanenberg, Trioptics, DE*

##### **Data Acquisition and Handling in Low-volume Precision Optics Manufacturing**

*Gumbsheimer Pascal, SwissOptic AG, CH*

##### **Optical Fabrication Process Maps for Glasses: Linking Modern OFTs to Material Requirements**

*Oliver Föhnle, PanDao GmbH, CH*

##### **Quo Vadis Optics Industry?: Hightech Industries in the German Economy**

*Michael Benisch, Institute for Precision Manufacturing and High Frequency Technology, DE*

14:15

#### END OF THE SEMINAR