10th Seminar on Precision Optics Manufacturing

The Bavarian evening will take place on 17.04.2023 in Böbrach (Brauerei Eck)

The Seminar will take place on 18.04.2023 in Teisnach.

Chair:

Prof. Dr. Gerald Fütterer, DIT, DE
Dr. Oliver Fähnle, OST, CH
Prof. Dr. Christine Wünsche, DIT, DE
Prof. Dr. Helge Thieß

Program:

09:00 CHECK-IN

09:55 WELCOME

10:00 SESSION 1

10:00 – 10:20
Metrology and polishing overview of the optics production for the TRISHNA mission
Simone Bonotto, Media Lario S.r.l., IT

10:20 – 10:40
Experimental investigations on the manufacturing of fused silica freeform surfaces by means of fine and ultra-fine grinding
Sebastian Henkel, Ernst-Abbe-Hochschule, DE

10:40 – 11:00
Cryosonic assisted machining of Zerodur
Christian Vogt, Deggendorf Institute of Technology, DE

11:00 – 11:20
Plasma jet polishing of optical surfaces
Heike Müller, Leibniz Institute of Surface Engineering (IOM), DE

11:20 – 11:40
Acoustic emissions in the glass polishing process - a possible approach for process monitoring?
Michael Benisch, Deggendorf Institute of Technology

11:40 LUNCH BREAK

13:00 SESSION 2

13:00 – 13:20
Static influences in high-performance polishing of spherical lenses
Roland Mandler, DE

13:20 – 13:40
Additive manufacturing of polishing pads
Christine Wünsche, Deggendorf Institute of Technology, DE

13:40 – 14:00
Analysis of flexibility in Precision Glass Molding (PGM)
Carlos Marin Tovar, Fraunhofer IPT, DE

14:00 – 14:20
Automated alignment turning of active optical components
Hediyeh Bateni, TRIOPTICS GmbH, DE

14:20 – 14:40
Wafer-level production and qualification of beam shaping micro-optics made of glass and silicon
Dirk Hauschild, Focuslight, DE

14:40 COFFEE BREAK

16:00 SESSION 3

16:00 – 16:20
Metrology for optical components - The battle between computed tomography and microprobes
Detlef Ferger, Werth Messtechnik GmbH, DE

16:20 – 16:40
Efficient ion beam machining for high-end optical components.
Christian Schindler, Bühler Alzenau, DE

16:40 – 17:00
Optimized Kinematics for Efficient Freeform Polishing
Sebastian Stoebenau, Optotech Optikmaschinen GmbH, DE

17:00 POSTER SESSION