

ONLINE SESSIONS 2020/21



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AACHEN POLYMER OPTICS DAYS *digital*

INJECTION MOLDING | MATERIALS |
TOOL AND MOLD MAKING |
METROLOGY | OPTICAL SYSTEMS



ONLINE SESSIONS 2020/21

🕒 **Session I: Injection molded optics** / Dec 1, 2020, 2–4:30 pm

Welcome and moderation

Dr. Malte Röbig, IKV – Institute for Plastics Processing
in Industry and Craft at RWTH Aachen University of Technology

- **Production of injection-molded optical components with optically effective microstructures**
Norbert Heyer, KraussMaffei Technologies GmbH, Germany
- **Process simulation of multilayer lenses**
Cristoph Hinse, SimpaTec GmbH, Germany
- **Requirements for optics in occupational safety using the example of eye and face protection**
Dr. Marco Wacker, Uvex Arbeitsschutz GmbH, Germany
- **Surface modification of injection moulded LSR optics**
Andreas Schäfert, Wilhelm Weber GmbH & Co. KG, Germany

Discussion

José Pozo (EPIC – European Photonics Industry Association)

🕒 **Session II: Materials in optics manufacturing** / Feb 24, 2021, 2–4.30 pm

Welcome and moderation

Dr. Christoph Baum, Fraunhofer IPT

- **New demands and applications for polymer optics in general lighting and automotive lighting**
Dr. Fabian Grote, Covestro Deutschland AG, Germany
- **High heat thermoplastic lens resins for IR sensing applications**
Gabrie Hoogland, SABIC Innovative Plastics BV, Netherlands
- **Roll-to-Roll manufactured structured foils for interior and exterior applications**
Dr. Sven O. Krabbenborg, BASF Coatings GmbH, Germany
- **Physical principles of light scattering plastics using diffuse PMMA**
Arne Schmidt, Röhm GmbH, Germany

Discussion

José Pozo (EPIC – European Photonics Industry Association)

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🕒 **Session III: Tool and mold making for optical applications**

May 18, 2021, 2–4.30 pm

Welcome and moderation

Titus Gotthardt, Fraunhofer IPT

- **Improving the accuracy, surface finish and preparation time of molded optics by using 3D corrections with a high-performance Fast Tool Servo**
Andreas Kuchler, AMETEK GmbH, Germany
- **Innovative tool technology for optical components**
Volker Quarder, Werkzeugbau Siegfried Hofmann GmbH, Germany
- **Transfer of optical micro- and nanostructures to moulding tools by electroforming processes**
Dr. Marek Krehel, 3D AG, Switzerland
- **High volume manufacturing of advanced diffractive optical elements**
Theodor Nielsen, NIL Technology ApS, Denmark

Discussion

José Pozo (EPIC – European Photonics Industry Association)

🕒 **Session IV: Metrology of optical components** / Aug 25, 2021, 2–4 pm

Welcome and moderation

Niels König, Fraunhofer IPT

- **Transmitted wave front metrology of polymer lenses using a high dynamic range wave front sensor**
Dr. Benoit Wattellier, Phasics S.A., France
- **Fast and objective measurement of material stresses in polymer optics**
Henning Katte, ilis gmbh, Germany
- **Shape measurement of polymer optics: challenges and possibilities**
Dr. Andreas Beutler, Mahr GmbH, Germany

Discussion

José Pozo (EPIC – European Photonics Industry Association)

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▶ Session V: Optical Systems / Nov 16, 2021, 2–4 pm

Welcome and moderation

Dr. Jochen Stollenwerk, Fraunhofer ILT

- **Prototyping platform and pilot line facility for freeform-based product innovation in Flanders**
Heidi Ottevaere, B-Phot, Belgium
- **Challenges in the design and manufacture of modern lighting systems**
Marco Tscherner, GERG Lighthouse GmbH, Germany
- **Mass production of high performance optics**
Arseny Alexeev, WaveOptics Ltd., United Kingdom

Discussion

José Pozo (EPIC – European Photonics Industry Association)

Online registration

www.ipt.fraunhofer.de/apod-online

Registration fee

The first Online Session on Dec 1, 2020 is free of charge. Further information on costs can be found on the registration website.

Language

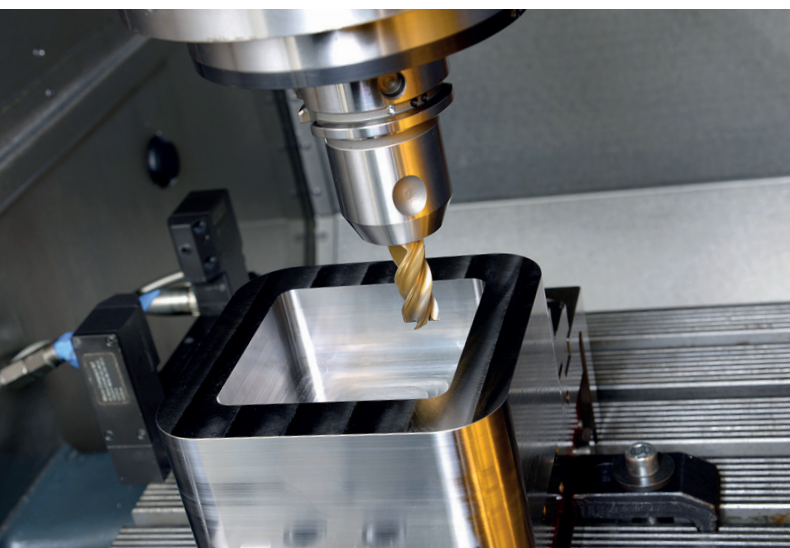
The lectures and the discussion will be held in english.

Networking and discussion

After each Online Session an open discussion will be moderated by Jose Pozo (EPIC – European Photonics Industry Association). The aim of the discussions is to network the participants with each other in the field of optical technologies. EPIC is the industry association with the largest network and maintains the European photonics database.

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Partner

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