

Program GREEN PHOTONICS Workshop (hybrid)

*Italic: online participation; *possibly also in person*

Day 1	Action Item / Speaker	Presentation
09:00 – 09:30	Badge Pick Up / Registration	
09:30 – 09:45	Andreas Tünnermann (Fraunhofer IOF)	Opening Remarks
09:45 – 09:55	Ruth Houbertz (ThinkMade Engineering/Society6.0)	Workshop Scope and Goals
09:55 – 10:35	Stefan Träger (Jenoptik)	Keynote: Sustainable Photonics
10:35 – 11:05	Michael Kissner (Akhetonics)	Integrating Nonlinear Photonic Materials for Optical Computing
11:05 – 11:35	<i>Yating Wan (KAUST)</i>	<i>On-Chip Lasers in Silicon Photonics: Pathways to Integration and Applications</i>
11:35 – 12:05	Mario Chemnitz (Friedrich-Schiller University)	Towards sustainable AI with nonlinear optical wave dynamics for brain-inspired computing
12:05 – 13:00	Networking Lunch Break	
13:00 – 13:30	Antonia Schmalz (SPRIND)	Technical and commercial challenges for optical components in fusion power plants
13:30 – 14:10	Oliver Haupt (Coherent Laser Systems)	Keynote: UV-Lasers for Green Energy and Display Applications
14:10 – 14:40	Martin Spreemann (Corning)	Opto-Electronic Glass Substrates for Power-Efficient and High-Density Photonic Interconnects
14:40 – 15:10	Nataša Pavlović Tucaković (Fraunhofer IOF)	Towards Secure and Global Quantum-based Communication
15:10 - 15:40	Networking Break "Coffee2Talk"	
15:40 - 16:10	<i>Sandeep Razdan (Cisco)</i>	<i>Enhancing Power Efficiency in Hyperscale Networks through Co-Packaged Optics integration</i>
16:10 - 16:50	<i>Bernard Kress (Google)*</i>	Keynote: <i>Optics and Photonics as Key Enabling Technology for a Sustainable Future</i>
16:50 - 16:55	Closing Remarks Day 1	

Day 2	Action Item / Speaker	Presentation
9:00 - 9:40	Paul Hartmann (Joanneum Research)	Keynote: Green Photonics and Photonics for Green: recent progress in Austria
9:40 - 10:10	Yolanda Stabel (Innocise GmbH)	Green Gripping – High Precision Manipulation for Photonic Applications
10:10 - 10:40	Frank Wippermann (mcd GmbH/Fabulens GmbH)	Scalable and energy-saving manufacturing approach for monolithic polymer components
10:40 - 11:10	Networking Break "Coffee2Talk"	
11:10 - 11:40	Tobias Schröter (Fluidect)	From photonics to sustainable industrial applications: the example of biosensors
11:40 - 12:10	Karim Ruvalcaba (ams Osram)	Multi-spectral sensing in VIS-NIR-SWIR for a sustainable and automated agriculture
12:10 – 13:00	Networking Lunch Break	

Day 2 (cont.'d)	Action Item / Speaker	Presentation
13:00 – 13:30	Estefania Cervantes, Oliver Faehnle, Jens Bliedtner (Edmund Optics® Europe, Eastern Switzerland University of Applied Sciences, PanDao GmbH, EAH University of Applied Sciences)	Achieving Sustainable Practices in Optics Design and Manufacturing
13:30 – 14:00	Beate Hager (Jabil Optics Germany)	Sustainability requirements in optical industry - challenges or opportunities?
14:00 – 14:45	Panel Discussion (Moderator: Olga Raz, OPTICA) – Role of Photonics-Driven Solutions in Building Sustainable and Resilient Businesses Our Panelists are: Bernhard Ohnesorge (ZEISS) – Tobias Schröter (Fluidect) – Paul Hartmann (Joanneum Research) – Antonia Schmalz (SPRIND/Pulsed Light Technologies)	
14:45 – 15:05	Networking Break "Coffee2Talk"	
15:05 – 15:35	Erik Beckert (Fraunhofer IOF)	Artificial Intelligence enhanced, energy efficient and sustainable growth of laser crystals
15:35 – 16:05	Falk Eilenberger (Fraunhofer IOF)	Nanophotonic Components as Enablers for Astronomy and Climate Science
16:05 – 16:45	<i>Henry Helvajian (Aerospace Corp.)</i>	Keynote: Photonics Technologies can Facilitate the Development of a Sustainable Eco-System in Outer Space
16:45 – 16:50	Closing Remarks Day 2	

Day 3	Action Item / Speaker	Presentation
08:30 – 10:00	Fraunhofer IOF Tour	Exploring the Future: Photonics Touring
10:00 – 10:30	Miro Taphanel (Gixel)	Augmented reality: the invisible environmental impact of smart and immersive eyewear technology
10:30 – 10:50	Networking Break "Coffee2Talk"	
10:50 – 11:20	Alexander Kostenko (Photosynthetic)	Enabling production speed Additive Manufacturing at the microscale: dual-wavelength volumetric microlithography
11:20 – 11:50	Martin Hermatschweiler (Nanoscribe GmbH)	Additive manufacturing of microoptics for a sustainable photonics industry
11:50 – 12:20	<i>Mangirdas Malinauskas (University Lithuania)</i>	<i>Non-photosensitized plant-based resins for green multi-photon 3D lithography</i>
12:20 – 13:00	Networking Lunch Break	
13:00 – 13:30	Jens Gottmann (Lightfab GmbH)	3D High precision glass structuring by SLE and internal glass modification/welding for industrial applications
13:30 – 14:00	Andreas Storz (FusionBionic)	Unlocking sustainable surface solutions through high-speed laser technology
14:00 – 14:20	Joachim Hansen (Kubus Group)	Planning 4.0 – interfaces for the digital building
14:20 – 14:50	Claudio Flores (Mimotype Technologies GmbH)	Jellyfish Do it Better: Ecologically Seamless Bio-Optical Materials for Photoconversion and Green Photonics
14:50 – 15:15	Closing Remarks Day 3 – "Coffee2Go"	
	End of Workshop	