

Advanced Photonics Congress
24 – 28 July 2022, Maastricht Exhibition & Conference Centre, Maastricht, Netherlands
Hybrid Event - Central European Time (UTC + 02:00)

Agenda of Sessions — Sunday, 24 July

14:00–17:00	Registration, <i>Trajectum North</i>
15:00–17:30	Workshop: SDM and Multi-Band Networks: Competing or Complementary Approaches? (NETWORKS) <i>Room Madrid/Lisbon (0.6/0.7)</i>

Monday, 25 July

Central European Time (UTC + 02:00)	Room 0.6/0.7 Madrid/Lisbon	Room 0.1 London	Auditorium 2	Room .13 Lima	Room 0.4 Brussels	Room 0.5 Paris	Room 0.8 Rome	Room 0.2 Berlin	Room .10 Sydney	Room 0.9 Athens
	BGPP	IPR	IPR-2	NETWORKS	NOMA/ Joint	NP	NP-2	PVLED	SOF	SPPCom
07:00–18:00	Registration, <i>Trajectum North</i>									
08:00–10:00	Introductory Remarks and Best Student Paper Prize Announcements JM1A • Joint Plenary Session I <i>Auditorium 2</i>									
10:00–10:45	Coffee Break with Exhibits, <i>Expo Foyer</i>									
10:45–12:15	BM2A • Introduction Remarks and Novel Applications	IM2B • Beam Steering		NeM2C • Advanced Photonic Devices	JM2D • Joint Symposium: Quantum Materials and Fabrication Technologies I	NpM2E • NP1: Progress in Nonlinear Optical Conservative Systems	NpM2F • NP4: Integrated Nonlinear Photonics	PvM2G • Novel OLED Applications	SoM2H • Soft Glass and Ceramic Fibers	SpM2I • Constellation Shaping and Capacity Optimization
12:15–14:00	Lunch (On Your Own)									
14:00–16:00	BM3A • Fundamentals of Glass Photosensitivity and Relaxation	IM3B • Photonic Integration and Elements	NoM3C • Machine Learning for Metamaterials	NeM3D • Mobile and PON Evolution	JM3E • Joint Symposium: Quantum Materials and Fabrication Technologies II	NpM3F • NP1: Soliton Interaction in Single-mode Fibers	NpM3G • NP4: Progress in Fast and Ultrafast Nonlinear Photonics	PvM3H • Device Physics and Color Quality	SoM3I • Mid-IR Fibers and Sources	SpM3J • Submarine Transmission and SDM Challenges and Perspectives
16:00–16:30	Coffee Break with Exhibits, <i>Expo Foyer</i>									
16:30–18:30	BM4A • High Temperature Gratings	IM4B • Silicon Photonics	IM4C • Electronics-Optics Co-design and Optimization	NeM4E • Optical Access Networks		NpM4F • NP: Symposium in Honor of Nicolaas Bloembergen		PvM4G • Aspects of Perovskite Photovoltaics	SoM4H • Fiber Systems for Bio-medical Applications	SpM4I • SDM Challenges & Perspectives
18:30–20:00	Conference Reception, <i>Praetorium</i>									

Key to Conference Abbreviations

I = Integrated Photonics Research (IPR)
 No = Novel Optical Materials and Applications (NOMA)
 Pv = Optical Devices and Materials for Solar Energy (PVLED)

Ne = Photonic Networks and Devices (NETWORKS)
 Sp = Signal Processing in Photonic Communications (SPPCom)
 So = Specialty Optical Fibers (SOF)

B = Bragg Gratings, Photosensitivity and Poling in Optical Materials and Waveguides (BGPP)
 Np = Nonlinear Photonics (NP)
 J = Joint programming

Agenda of Sessions — Tuesday, 26 July

Central European Time (UTC + 02:00)	Room 0.6/0.7 Madrid/Lisbon	Room 0.1 London	Auditorium 2	Room .13 Lima	Room 0.4 Brussels	Room 0.5 Paris	Room 0.8 Rome	Room 0.2 Berlin	Room .10 Sydney	Room 0.9 Athens
	BGPP/Joint	IPR	IPR-2	NETWORKS	NOMA	NP	NP-2	PVLED	SOF	SPPCom
07:00–08:00	LGBTQ+ & Allies Meet & Greet, <i>Cape Town</i>									
07:00–17:30	Registration, <i>Trajectum North</i>									
08:00–10:00	BTu1A • Fabrication and Properties of Gratings, Waveguides and Photonic Devices	ITu1B • Photonic Imaging	ITu1C • 2D Materials	NeTu1D • Data Centers and High-Performance Computing	NoTu1E • Metasurfaces I	NpTu1F • NP1: Spatial Solitons and Transverse Effects	NpTu1G • NP4: Progress in Nonlinear Microscopy and Frequency Generation	PvTu1H • New LED Spectral Regimes and Gain Media	SoTu1I • Hollow-core Fibers	SpTu1J • Machine Learning in Optical Communications
10:00–12:00	JTU2A • Poster Session I (In-person), <i>Trajectum North</i>									
12:00–14:00	Lunch (On Your Own) From Corporate to Startup: Careers Outside of Academia (12:00–13:30, Lunch provided, separate RSVP required) <i>Madrid/Lisbon (0.6/0.7)</i>									
14:00–16:00	ITu3C • Optical Combs and Sensors	ITu3B • Heterogeneous Integration I	JTu3A • Joint Session: International Year of Glass (IYoG) (Starts at 13:45)	NeTu3D • Nonlinear Fiber Transmission and Modelling (Starts at 13:30)	NoTu3E • Bioinspired Nanomaterials			NoTu3F • Nonlinear Optical Materials		SpTu3G • Free-Space Optical Communications
16:00–16:30	Coffee Break with Exhibits, <i>Expo Foyer</i>									
16:30–18:30	BTu4A • Poling and Laser-Induced Crystallization in Glasses	ITu4B • Heterogeneous Integration II	NoTu4C • Low-Dimensional Materials	NeTu4D • Optical and Terahertz Free-Space Communications (Ends at 18:45)	NoTu4E • From Cell Photostimulation to Vision	NpTu4F • NP4: Nonlinear Devices: Characterization and Applications	NpTu4G • NP5: Quantum Light and Entanglement	JTu4H • Joint NOMA/PVLED Perovskite Photovoltaics	SoTu4I • Hollow-core Fiber Applications	SpTu4J • Optical Signal Processing
18:45–19:30	Panel Discussion: Energy Crisis and Climate Catastrophe – The Role of Solar Energy, <i>Madrid/Lisbon</i>									
19:00–22:00	BGPP Reception (BGPP registered attendees only; RSVP required)									

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Agenda of Sessions — Wednesday, 27 July

Central European Time (UTC + 02:00)	Room 0.6/0.7 Madrid/Lisbon	Room 0.1 London	Auditorium 2	Room .13 Lima	Room 0.4 Brussels	Room 0.5 Paris	Room 0.8 Rome	Room 0.2 Berlin	Room .10 Sydney	Room 0.9 Athens
	BGPP/Joint	IPR	IPR-2	NETWORKS	NOMA	NP	NP-2	PVLED	SOF	SPPCom
07:30–17:00	Registration, <i>Trajectum North</i>									
08:00–10:00	JW1A • Joint Plenary Session II, <i>Auditorium 2</i>									
10:00–10:30	Coffee Break with Exhibits, <i>Expo Foyer</i>									
10:30–12:30	BW2A • Symposium on Recent Advances in Ultrafast Laser Waveguide Writing in Transparent Materials	IW2B • Lasers and Optical Sources	NoW2C • Machine Learning for Photonic Devices I	NeW2D • Photonic Networks and AI	NoW2E • Metasurfaces II	NpW2F • NP2: Oscillations, Instabilities and Chaos	NpW2G • NP5: Progress in Nonlinear Quantum Optics	PvW2H • Solar Fuels, III-V Cells, and Optical Modeling	SoW2I • Nonlinear Optics in Multimode Fibers	SpW2J • Quantum Communications (Ends at 12:00)
12:30–14:30	Lunch (On Your Own) JW3A • Poster Session II, <i>Virtual</i>									
14:30–16:00	BW4A • Industry Session	IW4B • Plasmons and Modulators	JW4E • Joint Symposium: Quantum Communications and Computing Systems I (Starts at 14:00)	NoW4C • Phase-Change and Tunable Materials	NoW4D • Light-Emissive Materials & Devices I				SoW4F • Spatiotemporal Effects and OAM in Fibers	
16:00–16:30	Coffee Break with Exhibits, <i>Expo Foyer</i>									
16:30–18:30	BW5A • Fabrication of Fiber and Volume Bragg Gratings Using Ultrafast Lasers	IW5B • Meta Surfaces and Materials	JW5E • Joint Symposium: Quantum Communications and Computing Systems II	NoW5C • Machine Learning for Photonic Devices II	NoW5D • Hot Electrons and Non-Thermal Processes			PvW5F • Radiative Cooling and Luminescent Solar Concentrators	SoW5G • Supercontinuum Generation and Nonlinear Conversion	
19:00–21:00	Congress Banquet, <i>Château Neercanne</i> (separate registration required)									

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Agenda of Sessions — Thursday, 28 July

Central European Time (UTC + 02:00)	Room 0.6/0.7 Madrid/Lisbon	Room 0.1 London	Auditorium 2	Room .13 Lima	Room 0.4 Brussels	Room 0.5 Paris	Room 0.8 Rome	Room 0.2 Berlin	Room .10 Sydney	Room 0.9 Athens
	BGPP	IPR	IPR-2	NETWORKS	NOMA	NP	NP-2	PVLED	SOF	SPPCom
07:30–15:00	Registration, <i>Trajectum North</i>									
08:00–10:00	BTh1A • Symposium on Optical Fiber and Grating Based Biomedical Sensors	ITh1B • Nonlinear Photonics	NoTh1D • Bioinspired Molecular Materials	NeTh1C • Optical Amplifiers in Networking	NoTh1E • Advanced Fabrication Technologies	NpTh1F • NP3: Nonlinear Metasurfaces and 2D Photonic Structures	NpTh1G • NP2: Cavity Solitons		SoTh1H • Single- and Multi-Core Fiber Sensing (starts at 08:30)	SpTh1I • Advanced Analog and Digital Signal Processing
10:00–10:30	Coffee Break, <i>Level 0 Lobby</i>									
10:30–12:30	BTh2A • FBG for Sensing Applications	ITh2B • Optical Passives	NoTh2D • Optical Sensors and Biosensors	NeTh2C • Distributed Computing, Advanced Transport, and Security	NoTh2E • Tunable Optical Materials (starts at 11:15)	NpTh2F • NP3: Nonlinear Optics in 0D, 1D and 2D Materials	NpTh2G • NP2: Taming Photons in Resonators	PvTh2H • Optoelectronic Device Physics	SoTh2I • Fiber Lasers	SpTh2J • DCI and Short-Reach Communications (Ends at 13:00)
12:30–14:30	Lunch (On Your Own)									
14:00–15:30	BTh3A • Grating Properties and Characterization Techniques	ITh3B • Lithium Niobate Devices		NeTh3I • Specialty Fiber Communications	NoTh3C • Nanotechnologies for Engineering Lasers and Devices	NpTh3D • NP2: Progress in Cavities and Quantum Dots	NpTh3E • NP2: Nonlinear Dynamics in Lasers and Fiber Lasers	PvTh3F • Nitride LEDs and Performance Assessment	SoTh3G • Fiber Characterisation and Measurement	SpTh3H • Radio-Over-Fiber and Optical Wireless Communications
16:00–16:30	Coffee Break, <i>Level 0 Lobby</i>									
16:30–18:30	JTh4A • Postdeadline Session and Best Student Paper Prize Winners <i>Auditorium 2</i>									

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