Event Program - 16 September 2026

DutchPhotonicsEvent

08:30 Registration

10:00 Welcome

10:10 **PLENARY**
Andrea Alú - ASRC CUNY, USA
t.b.d.

11:00 **PARALLEL SESSIONS**

LUMINOUS	DEXTER 1	DEXTER 2
Defense	**Photonics for Communication**	**Advanced microscopy and biophotonics**
Keynote - TBA	Martijn Heck (TU/e) *t.b.d.*	Marloes Groot (VU) *"Clinical translation of higher harmonic generation microscopy for label-free intra-operative tissue diagnosis and treatment prediction."*
	Amna Riaz (Northumbria University) *"Gigabit-class free-space optical communication from a CubeSat-scale terminal: ground demonstration and performance characterisation."*	Gijs Beekhuis (TU Delft) *"Single-molecule localization microscopy using re-scan confocal microscopy."*
Bram Lap (NRL)	Adam Taras (Leiden University) *"Freeform metasurfaces for adaptive optics through differentiable simulation."*	Max van Hemert (TU/e) *"Using spatiotemporal microscopy to study the thermal conductivity of Ti3C2Tx Mxene."*
	Tjeerd Bollmann (Saxion University of Applied Science) *"Shine and Sign: Spatial-domain quantum-secure authentication and passive time-bin quantum communication."*	Warner J. Venstra (Quantified Air) *"Stabilization and control of water microdroplets using a fiberoptic interferomete."*
Invited Speaker (TBA)	Emily van Hese (Leiden University) *"Efficient receivers for satellite-to-ground free space optical communication using low-order hybrid turbulence mitigation technologies."*	Samuel John (TU/e) *"Reconfigurable THz chiral metasurfaces for molecular sensing."*

12:30 **Lunch**
Exhibition/ Job Fair / Poster Session

14:00 **PARALLEL SESSIONS**

LUMINOUS	DEXTER 1	DEXTER 2
AgriFood	**Advanced instrumentation and Metrology**	**Photonic Information processing**
Liesbeth Luijendijk (WUR) *"From Light to Field: Photonics Driving Agriculture 4.0 and the Work of the Phytophotonik Network"*	Anna Green (Maastricht University) *"Shaping light to 'hear' the universe: optical design for next-generation gravitational-wave detection."*	Christian Haffner (imec) *"Thin-Film $SrTiO_3$ for High-Performance Electro-Optic and Quantum Photonics."*
	Jan-Brian Heinisch (Utrecht University) *"Ptychographic speckle-scan based imaging of 2D and 3D objects."*	Bernardo Dias (UvA) *"All-optical tunable analog computation using 2D materials."*
Matthias Lautenschaeger (PhytoPhotonik) *"From Light to Field: Photonics Driving Agriculture 4.0 and the Work of the Phytophotonik Network"*	Masoumeh Goudarzi (TU/e) *"Wafer-scale optical scatterometry for quantitative inspection of periodic plasmonic nanostructures."*	Guy Verschaffelt (VU Brussels): *"Spatially multiplexed photonic Ising machines to solve complex optimization problems."*
	Sebastiaan Haffert (Leiden University) *Imaging extra-solar planets with the telescopes and instruments of tomorrow."*	Sander A. Mann (UvA) *"A monolayer-semiconductor ultrafast all-optical switch."*
Ian Howard (Zeiss) *"Spectroscopy-Driven Sensing in Smart Agriculture"*	Eva Almeida (UvA) *"Inverse design of color-selective metasurfaces for building integrated photovoltaics."*	Jelmer Renema (Quix Quantum /TU/e) *"Below-threshold error reduction in single photons through photon distillation."*

15:30 **Break**
Exhibition / Job Fair / Poster Session

16:00

LUMINOUS	FOYER
Free-Space Photonics	**POSTER SESSION**
Nieke ten Haaf (TNO) *Toward Quantum Communication via Space: Space-grading a PIC-Based Entangled Photon Source."*	
Roland Blok (Aircision) *"Free Space Optical Communication: high-speed, long-distance terrestrial communication."*	
Pascal van Hol (Optics Valley) *t.b.d.*	

17:30 **Networking Drinks**

19:30 **End**

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09:00 **PLENARY**
Imran Avci (VU/Rapid Photonics)
"Engineering Research into Real Impact"

09:45 **PLENARY**
Christine Silberhorn (Paderborn University, Germany)
"Photonic quantum technologies: from integrated quantum devices to designing large complex system"

10:30 **Break**
Exhibition / Job Fair / Poster Session

11:00 **PARALLEL SESSIONS**

LUMINOUS	DEXTER 1	DEXTER 2
Medical photonics	**Quantum nanophotonics**	**Nanophotonics for sensing and biology**
Mireille Claessens (UTwente) *"Tracking the Parkinson's Protein α-Synuclein with Light: From Conformational Dynamics to Clinical Biomarker Detection"*	Pepijn Pinkse (UTwente) *"Quantum Photonics from Twente."*	Sabina Caneva (TU Delft) *"Nanophotonic devices for Single-molecule Biophysics."*
	Menno Jansen (AMOLF) *"Laser cooling a mechanical resonator below the quantum backaction limit."*	Koen Valk (TU/e) *"Plasmonic-photonic platform for single-molecule biosensing."*
Evelien Hermeling (imec) *t.b.d.*	Mio Poortvliet (Leiden University) *"Single photons from an open optical microcavity in a closed-cycle cryostat."*	Ester Abram (VU) *"Going all-optical: Stimulating biological neurons at single-dendrite precision with photonic microchips optimized for 488 nm."*
	Jie Ji (TU/e) *"Extended dipole-dipole energy transfer by nonlocal metasurfaces."*	Arthur David Bouamra (TU/e) *"Photonic integrated circuits on fiber tips for lab-on-fiber sensing."*
Invited Speaker (TBA)	Frederik Baalbergen (Leiden University) *"Extracting photon-number information from superconducting nanowire single photon detector traces via mean-derivative projection."*	Dhyana Challeparambil Bharathan (UTwente) *"Sensitivity-enhanced optical fiber strain sensor based on the Vernier effect in a cascaded three-FBG Fabry–Perot configuration."*

12:30 **Lunch**
Exhibition/ Job Fair / Poster Session

14:00

LUMINOUS	FOYER
Metrology	**POSTER SESSION**
Invited Speaker (TBA) *t.b.d.*	
Cees Links (SuperLight Photonics) *"Imaging and Metrology: unlocking higher precision with OCT."*	
Elbert van Putten (ASML) *"Optical Overlay Metrology for the Semiconductor Industry"*	

15:30 **Poster Session Award**

15:45 **Networking Drinks**

18:00 **End**