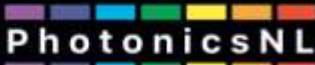




DutchPhotonicsEvent

16 & 17 SEPTEMBER 2026

1931 Congress Center
Brabant Hallen - Den Bosch



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**02 - 04
FEBRUARY 2027**
San Francisco - CA

PhotonicsNL

Welcome to the DutchPhotonicsEvent 2026

From healthcare, agriculture and communications to quantum technology, semiconductors and sustainable industry, photonics is enabling solutions to some of the most important challenges of our time. It is a field where science, technology and imagination come together—and where the Netherlands has a strong position to lead.

We are proud to welcome you to the **DutchPhotonicsEvent 2026**, where the Dutch photonics community comes together to explore what is possible when knowledge, ambition and innovation meet.

This special edition brings **industry and science together**, because the breakthroughs of tomorrow depend on strong connections between the two. It is through collaboration—across disciplines, organisations and value chains—that ideas can move from the laboratory into society and become technologies with real impact.

Recognised as a key enabling technology across at least five domains of the **National Technology Strategy (NTS)**, photonics has an extraordinary breadth of applications and opportunities. At this event, we invite you to look beyond today's achievements and explore the possibilities that lie ahead.

Over the next two days, discover new perspectives through **inspiring keynotes and sessions, an interactive exhibition, poster presentations and meaningful encounters with fellow innovators, researchers and industry leaders.**

Most importantly, use this event to connect. **Share knowledge. Challenge ideas. Build partnerships. Create what comes next.**

Together, let us strengthen the Dutch photonics ecosystem and ensure that light-based technologies continue to contribute to a **sustainable, innovative and competitive future.**

Welcome to DutchPhotonicsEvent 2026. Light is shaping the future.

Warm regards,

Petra Wicherink

Director PhotonicsNL

Event Program - 16 September 2026

08:30 Registration

10:00 Welcome

10:10 PLENARY

Andrea Alù - ASRC CUNY, USA

"Extreme Control of Light-Matter Interactions Through Broken Symmetries in Metasurfaces"

11:00 PARALLEL SESSIONS

LUMINOUS Defense

Tamas Erkelens (Ministry of Defense)

"The importance of photonics and deep tech for the security of the Netherlands: why, what, and how entrepreneurs and researchers can contribute."

Bram Lap (NRL)

"Photonics in Airborne Defence Applications: status and outlook."

Remco den Breeje (Airbus)

"High-Data-Rate Defense Lasercom: Current Capabilities and Photonics Outlook."

DEXTER 1 Photonics for Communication

Martijn Heck (TU/e)

"PICs for communications - where is the laser."

Roel Hacking (TU/e)

"Differentiable inverse design of 3D extruded catadioptric optical systems using neural network surface representations"

Adam Taras (Leiden University)

"Freeform metasurfaces for adaptive optics through differentiable simulation."

Tjeerd Bollmann (Saxion University of Applied Science)

"Shine and Sign: Spatial-domain quantum-secure authentication and passive time-bin quantum communication."

Emily van Hese (Leiden University)

"Efficient receivers for satellite-to-ground free space optical communication using low-order hybrid turbulence mitigation technologies."

DEXTER 2 Advanced microscopy and biophotonics

Marloes Groot (VU)

"Clinical translation of higher harmonic generation microscopy for label-free intra-operative tissue diagnosis and treatment prediction."

Gijs Beekhuis (TU Delft)

"Single-molecule localization microscopy using re-scan confocal microscopy."

Max van Hemert (TU/e)

"Using spatiotemporal microscopy to study the thermal conductivity of Ti3C2Tx MXene."

Warner J. Venstra (Quantified Air)

"Stabilization and control of water microdroplets using a fiberoptic interferometer."

Samuel John (TU/e)

"Reconfigurable THz chiral metasurfaces for molecular sensing."

12:30 Lunch Exhibition & Poster Session

14:00 PARALLEL SESSIONS

LUMINOUS AgriFood

Matthias Lautenschläger (PhytoPhotonik)

"From Light to Field: Photonics Driving Agriculture 4.0 and the Work of the Phytophotonik Network"

Lex Oosterveld (WUR)

"Agrifood Applications for Spectral Sensing Using on-Chip Tuneable Lasers"

Ian Howard (Zeiss)

"Spectroscopy-Driven Sensing in Smart Agriculture"

DEXTER 1 Advanced instrumentation and Metrology

Anna Green (Maastricht University)

"Shaping light to 'hear' the universe: optical design for next-generation gravitational-wave detection."

Jan-Brian Heinisch (Utrecht University)

"Ptychographic speckle-scan based imaging of 2D and 3D objects."

Masoumeh Goudarzi (TU/e)

"Wafer-scale optical scatterometry for quantitative inspection of periodic plasmonic nanostructures."

Sebastiaan Haffert (Leiden University)

"Imaging extra-solar planets with the telescopes and instruments of tomorrow."

Eva Almeida (UvA)

"Inverse design of color-selective metasurfaces for building integrated photovoltaics."

DEXTER 2 Photonic information processing

Christian Haffner (imec)

"Thin-Film SrTiO₃ for High-Performance Electro-Optic and Quantum Photonics."

Bernardo Dias (UvA)

"All-optical tunable analog computation using 2D materials."

Guy Verschaffelt (VU Brussels):

"Spatially multiplexed photonic Ising machines to solve complex optimization problems."

Sander A. Mann (UvA)

"A monolayer-semiconductor ultrafast all-optical switch."

Jelmer Renema (Quix Quantum /TU/e)

"Below-threshold error reduction in single photons through photon distillation."

15:30 Break Exhibition & Poster Session

16:00 PARALLEL SESSIONS

LUMINOUS Free-Space Photonics

Nieke ten Haaf (TNO)

"Toward Quantum Communication via Space: Space-grading a PIC-Based Entangled Photon Source."

Roland Blok (Alcursion)

"Free Space Optical Communication: high-speed, long-distance terrestrial communication."

Pascal van Groi (ValleyOptics)

"Integrated Software Platform Approach for Opto-Mechanical System Development."

16:00 Foyer - Poster Session

17:30 - 19:30 Networking Drinks

Event Program - 17 September 2026

08:00 Registration

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 & Poster Session

11:00 **PARALLEL SESSIONS**

LUMINOUS Medical photonics

Mireille Claessens (UTwente)
"Tracking the Parkinson's Protein α -Synuclein with Light: From Conformational Dynamics to Clinical Biomarker Detection"

Evelien Hermeling (imec)
"Decoding Physiology Through Speckles: New Opportunities for Photonics"

Marijn van OS
"Let's bring clarity to cancer"

DEXTER 1 Quantum nanophotonics

Pepijn Pinkse (UTwente)
"Quantum Photonics from Twente."

Menno Jansen (AMOLF)
"Laser cooling a mechanical resonator below the quantum backaction limit."

Mio Poortvliet (Leiden University)
"Single photons from an open optical microcavity in a closed-cycle cryostat."

Jie Ji (TU/e)
"Extended dipole-dipole energy transfer by nonlocal metasurfaces."

Frederik Baalbergen (Leiden University)
"Extracting photon-number information from superconducting nanowire single photon detector traces via mean-derivative projection."

DEXTER 2 Nanophotonics for sensing and biology

Sabina Caneva (TU Delft)
"Nanophotonic devices for Single-molecule Biophysics."

Koen Valk (TU/e)
"Plasmonic-photonic platform for single-molecule biosensing."

Ester Abram (VU)
"Going all-optical: Stimulating biological neurons at single-dendrite precision with photonic microchips optimized for 488 nm."

Arthur David Bouamra (TU/e)
"Photonic integrated circuits on fiber tips for lab-on-fiber sensing."

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 & Poster Session

14:00 **PARALLEL SESSIONS**

LUMINOUS Metrology

Sander den Hoedt (Delmic)

"Photons & electrons - nanoscale inspection in photonics"

Cees Links (SuperLight Photonics)

"Imaging and Metrology: unlocking higher precision with OCT,"

Elbert van Putten (ASML)

"Optical Overlay Metrology for the Semiconductor Industry"

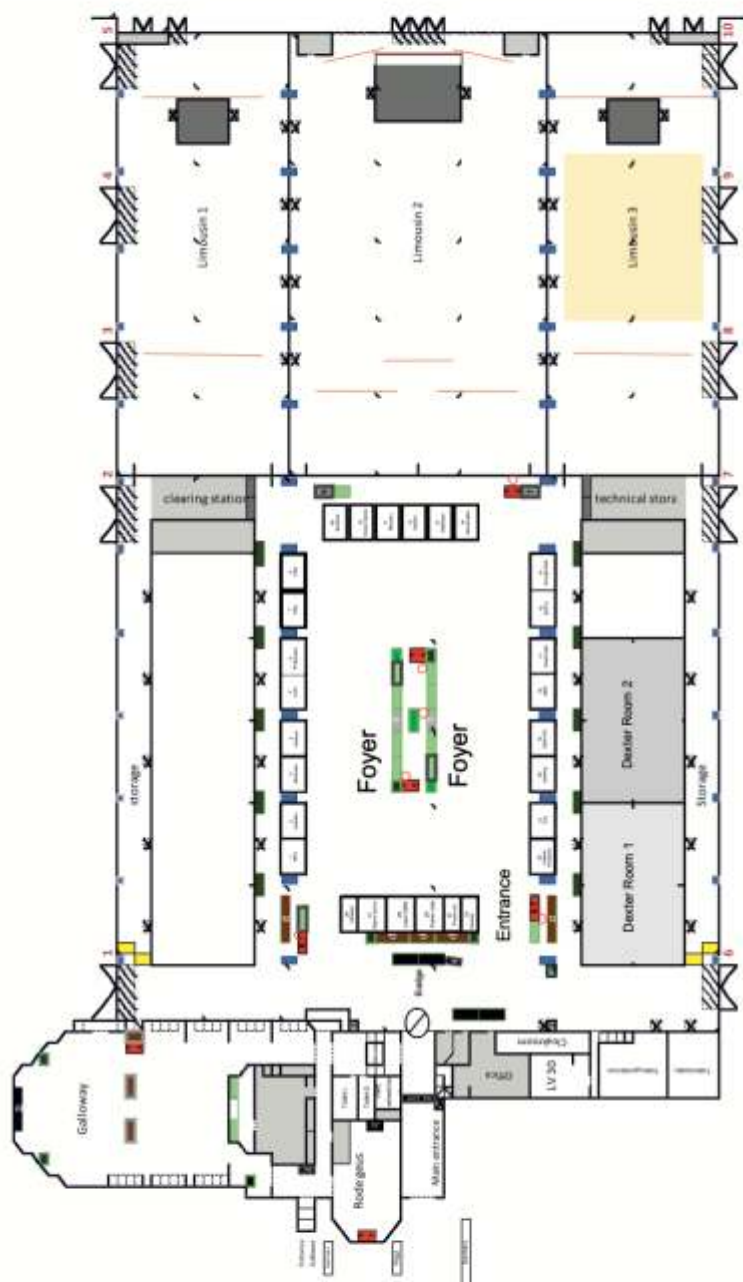
14:00 **Foyer - Poster Session**

15:30 **Poster Session Award**

15:45 - 18:00 **Networking Drinks**

N°	Company
01	PEO Photonics
02	Avantes
03	Molenaar Optics
04	Mintres
05	CCG
06	PI Benelux
07	TNO
08	TNO
09	Exosens
10	Ocean Optics
11	Mitutoyo Netherlands Belgium Denmark
12	Rayfos
13	Balthazar
14	Hamamatsu
15	Suruga Seiki Co
16	RAITH
17	SuperLight Photonics
18	MKS
19	SEDI-ATI Fibres Optiques
20	Admesy
21	TLS
22	Indoles Precision
23	Dalessi/Bühler

N°	Company
24	PhotonJobs
25	Job Opportunities
26	Laser 2000 Benelux
27	Nippon
28	Scientific Ultrafast Services



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ADMESY

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Avantes

Booth #02

Empowering Spectroscopy Solutions

Avantes is the leading innovator in the development of fibre-optic spectroscopy instruments and systems with nearly 30 years of experience developing customer-defined spectrometer configurations.

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Balthazar

Booth #13

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Balthazar is an AI-powered R&D platform that helps engineering teams manage, analyze, and reuse complex experimental data. We connect measurements, devices, fabrication, simulations, code, and metadata into a single, searchable workspace, making it easier to trace results, collaborate across disciplines, and accelerate development. Built for photonics, semiconductors, quantum technologies, and other deep-tech industries, Balthazar reduces engineering friction and shortens the path for breakthrough technologies.



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Cleanroom Combination Group

Booth #05

Room for perfection

Cleanroom Combination Group is a building and construction cleanroom specialist that designs and constructs classified environments for clients in the high-tech, medtech, biotech, micro-electronics, pharmaceutical, and healthcare sectors.



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Exosens Reveal the Invisible

Booth #09

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HAMAMATSU PHOTONICS Light-powered innovation

Booth #14

Hamamatsu Photonics is a worldwide leading manufacturer of cutting-edge photonics technology and products. With 70 years of experience, the company delivers innovative solutions to customers across a wide range of industries, including medical, scientific research, industrial, and telecommunications.



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Mintres B.V.

Booth #04

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At Mintres, we proudly serve the global semiconductor, photonics, and opto-electronic industry by providing advanced thermal management solutions. Our expertise lies in developing custom components such as submounts and heat spreaders for laser diodes, LEDs, and RF transistors. Whether you need R&D, prototyping, or large-scale production, we are here to deliver.

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Mitutoyo Netherlands Belgium Denmark

Precision is in our DNA

Booth #11

As the global leader in metrology, we work with some of the most cutting-edge technology and equipment in the industry. Our team is made up of highly skilled professionals who are passionate about precision measurement and dedicated to delivering the highest level of quality and accuracy in everything we do. In our factories in Japan we produce more than 5,500 high quality measuring solutions for every measuring task. Mitutoyo measuring equipment is world-famous for its accuracy, reliability, and innovative technologies.



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Laser 2000 Benelux

The Future of Photonics

Booth #26

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Contact:

Pieter Kramer | pkramer@laser2000.nl
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MKS | Newport Spectra-Physics GmbH

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Booth #03

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molenaar optics

Contact:

Robert Molenaar | robert@molenaar-optics.nl
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Nippon Sanso Belgium NV

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Booth #27

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Ocean Optics pioneered miniature spectrometers and delivers spectral solutions to researchers, OEMs and industrial customers, also designs and builds industrial-grade photonics systems for material inspection, chemical identification and quality assurance. Backed by deep experience, we are working within applications including biomedical, semiconductors, research & science, industrial, environmental, food & agriculture, and safety & security. We partner with customers to achieve ambitious goals, leveraging the power of light for advancement in health, safety and the environment.



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Making Precision Possible

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Contact:

Roland van den Bergh | roland.vandenbergh@gotopeo.com
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Booth #16

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Rayfos

Enhancing scientific computing

Booth #12

Founded in 2012, Rayfos is a UK-based scientific software company specialising in GPU-accelerated, high-performance computing for advanced photonic simulations.

Its flagship photonic simulation platform, WaveSimPro, leverages the Modified Born Series method to enable large-domain, wavelength-scale 3D electromagnetic simulations — available directly in the browser or through on-premises deployment. The platform supports innovation across integrated photonics, metasurfaces, and micro-optics.

WaveSimPro is developed in collaboration with FORTH and the University of Twente, combining cutting-edge research with practical simulation solutions for the photonics community.



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Te Lintelo Systems BV Emitting Manipulating & Detecting Light!

Booth #21

Te Lintelo System is your partner in photonics. Being a supplier to the photonics industry in the Benelux, with a team of passionate, experienced, well-educated photonics engineers, our mission is to find the best photonics solution, for all of our customers. Whether it is for research & development or to the industry.

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TNO Optics Advancing the future through photonics and optical innovation.

Booth #7/8

TNO Optics develops high-performance optical solutions that unite cutting-edge research with practical engineering. In partnership with industry and academia, we design, realize, and validate photonic integrated circuits, fiber-optic technologies, and advanced free-space instruments. Our multidisciplinary expertise delivers compact, robust, and scalable systems for demanding applications in semiconductor manufacturing, quantum technology, healthcare, communications, sensing, and space. By translating breakthrough ideas into practical solutions, we help organizations accelerate innovation, strengthen competitiveness, and create impact.



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Scientific Ultrafast Services Fair & Ultrafast Services

Booth #28

Scientific Ultrafast Services is a company that provides service to Coherent laser systems.

In addition, we have extensive expertise in the field of vacuum and X-ray technology (XRF platforms).

We are open to collaborating with other high-tech companies looking for start-up, expansion, or temporary service capacity. This also includes testing the service accessibility of both new and existing systems.

We are known for our quality, fast response times, and flexible approach.



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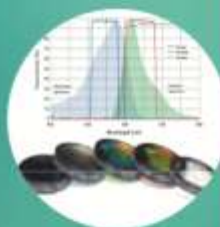


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Speakers



Andrea Alù (CUNY)

Keynote



"Extreme Control of Light-Matter Interactions Through Broken Symmetries in Metasurfaces"

Andrea Alù is a Distinguished Professor, founding director of the Photonics Initiative at the CUNY Advanced Science Research Center, Einstein Professor of Physics at the CUNY Graduate Center, and Professor of Electrical Engineering at The City College of New York. He is affiliated with the Wireless Networking and Communications Group and the Applied Research Laboratories, both based at the University of Texas at Austin, where he is a Senior Research Scientist and Adjunct Professor. His research interests span over a broad range of technical areas, including applied electromagnetics, nano-optics and nanophotonics, microwave, THz, infrared, optical and acoustic metamaterials and metasurfaces, plasmonics, nonlinearities and nonreciprocity, cloaking and scattering, acoustics, optical nanocircuits and nanoantennas.

Anna Green (Maastricht University)

Advanced instrumentation and Metrology



"Shaping light to 'hear' the universe: optical design for next-generation gravitational-wave detection"

Anna Green is an Assistant Professor at Maastricht University, with a decade of experience supporting the design and commissioning of ground-based gravitational-wave detectors including LIGO, Virgo, KAGRA and the proposed Einstein Telescope. She specialises in simulation-driven mitigation of optical defects. A core contributor to Finesse (a Nikhef-led project) — now a field-standard for gravitational-wave-detector modeling — she also co-chairs ET's Optical Layout, Sensing and Control (HF) work-package, with key contributions to ET's 2025 detector layout.

Bram Lap (NRL)

Defense



"Photonics in Airbone Defence Application: status and outlook"

Bram Lap is an R&D engineer at NRL, with a PhD in astronomical instrumentation. From an aerospace application perspective, he explores the potential of photonics to enhance the resilience and sensing capabilities of airborne defence systems, driving innovation in the field.

Cees Links (SuperLight Photonics)

Metrology



"Imaging and metrology: Unlocking higher precision with OCT"

Cees Links is a renowned pioneer in wireless technology. As the founder of the world's first wireless LAN, he laid the groundwork for Wi-Fi and contributed significantly to the IEEE 802.11 standard. His entrepreneurial success includes founding GreenPeak Technologies, a start-up in the IoT space, later sold to Qorvo. Throughout his career, whether pioneering technological advancements, leading successful business ventures, or receiving prestigious honours, Cees has been synonymous with innovation, collaboration, and excellence. Today, Cees Links is the CEO of SuperLight Photonics.

Christian Haffner (imec)

Photonic Information processing



"Thin-Film SrTiO₃ for High-Performance Electro-Optic and quantum Photonics"

Christian Haffner is Scientific Director at imec, where he leads research on integrated electrooptic devices for classical and quantum applications (ERC starting grant QAMP). Since February 2026, he also holds a position as Professor at Ghent University. Previously, he was a Branco Weiss Fellow at NIST and ETH Zurich, during which he conducted research on nanoscale optomechanical switches at NIST (USA) and ETH Zurich. He received his PhD from ETH Zurich in 2018, where his work on plasmonic electrooptic devices earned both the ETH Medal and the HansEggenberger Prize.

Christine Silberhorn (Paderborn University)

Keynote



"Photonics quantum technologies: From integrated quantum devices large complex system"

Christine Silberhorn is professor at Paderborn University and spokesperson of the Institute for Photonic Quantum Systems (PhoQS). She is best known for her work on the development of integrated-optical quantum devices and photonic systems that lay the foundations for the future quantum technologies, including quantum communication and quantum metrology. In the area of photonic quantum computing, she has been pioneering Gaussian Boson Sampling for scaling photonic quantum computing. She is the Fellow of Optica and of the Max Planck School of Photonics.

Dr. Elbert van Putten (ASML)

Metrology



"Optical Overlay Metrology for the Semiconductor Industry"

Elbert earned a PhD in Physics from the University of Twente and has built a solid foundation in the high-tech industry. During his ten years at Philips, he played a key role in advancing 3D navigation technology from a research prototype to a commercial medical product. Now at ASML Research, Elbert develops innovative approaches to optical metrology that contribute to future ASML product lines. His scientific expertise and industry experience help bridge research and real-world, commercially viable technologies.

Evelien Hermeling (imec)

Medical Application



"Decoding Physiology Through Speckles: New Opportunities for Photonics"

Evelien Hermeling, PhD, is Scientific Director of Biomedical Engineering & Health Technologies at imec in the Netherlands. With over 15 years of experience in cardiovascular innovation and translational research, she leads multidisciplinary teams developing wearable and non-invasive monitoring solutions. Her work connects photonics, sensing technologies, and biomedical signal processing to real-world healthcare applications. She collaborates across industry and academia, contributing to projects in healthcare, automotive, and pharma, with a strong track record in funding acquisition and technology translation.

Ian Howard (Zeiss)

Agrifood



"Spectroscopy-Driven Sensing in Smart Agriculture"

Within ZEISS Corporate Research and Technology, Dr. Ian Howard heads the ZEISS Innovation Hub @ KIT and leads a team in the Systems Engineering Department. Trained in spectroscopy, he focuses on innovative sensing solutions and their integration into advanced optical and imaging systems, bridging academic research and industrial applications. Dr. Howard holds a PhD in Physics from the University of Cambridge and a BEng from the University of Toronto, and has extensive experience in interdisciplinary research and development.

Imran Avci (VU)

Keynote



"Engineering Research into Real Impact"

Imran Avci obtained her Ph.D. in 2012 from the Integrated Optical Microsystems Group at the University of Twente, The Netherlands, where she developed on-chip optical coherence tomography (OCT) systems. From 2013 to 2015, she was a postdoctoral researcher at Harvard Medical School.

In 2015, she was awarded an NWO VENI grant and continued her research at AMC in Amsterdam, followed by a Marie Skłodowska-Curie Individual Fellowship in 2016. She is currently an Associate Professor in the Department of Physics and Astronomy at VU Amsterdam. Her group pioneers multimodal biophotonics, creating photonic instruments that sense, image, and stimulate biological systems to reveal new biomarkers and enable novel therapies.

Lex Oosterveld (WUR)

Agrifood



"Agrifood Applications for Spectral Sensing Using on-Chip Tuneable Lasers"

Lex Oosterveld is program manager Food Processing at OnePlanet Research Center. In this role, Lex focuses on the translation of chip and digital technologies to practical solutions for the agrifood industry. Lex was trained as a food technologist at Wageningen University. He holds a PhD in food chemistry from Wageningen University and was active in the past as project manager in research and development at Sara Lee Douwe Egberts and NIZO food research.

Marijn van OS (SCinvivo)

Medical Photonics



"Let's bring clarity to cancer"

Active as an entrepreneur in the MEMS mirror related optics space since 2007. He founded Innoluce in 2010 as a spin-off of Royal Philips and sold Innoluce to Infineon for the LIDAR application. He is currently CEO and co-founder of Scinvivo, a spin out of Innoluce, which operates in the medical space for in-vivo tissue imaging for bladder cancer image guided treatment. Scinvivo applies a MEMS based laser scanner in a thin catheter for OCT imaging.

Marloes Groot (VU)

Advanced Microscopy and Biophotonics



"Clinical translation of higher harmonic"

Physicist specialising in medical photonics and biophysics, focused on translating novel photonic methods into clinical healthcare. Fascinated by femtosecond lasers and nonlinear light-tissue interactions, I earned my PhD in Physics from Vrije Universiteit in 1997 and later held positions in Chicago and France. Now a full professor in Amsterdam, my research centers on nonlinear microscopy, including higher harmonics generation for Instant Pathology, with applications in lung, brain, and skin tissue analysis.

Martijn Heck (TU/e)

Photonics for Communication



"PICs for communications - where is the laser"

Martijn Heck is Professor in the Photonic Integration group at Eindhoven University of Technology and part-time group leader at Aarhus University, where he founded the Photonic Integrated Circuits group. An internationally recognized expert in photonic integration, his work spans optical chip design, fabrication, and characterization. He has contributed to JePPIX multi-project wafer runs and hybrid silicon technologies commercialized by Intel and Juniper, advancing sensors, microwave and terahertz photonics, quantum technology, and interconnects.

Matthias Lautenschäeger (PytoPhotonik)

Agrifood



"From light to Field: Photonics Driving Agriculture 4.0 and the Work of the Phytophotonik Network"

Photonics engineer specialised in laser material processing and applied photonics. Currently managing the PhytoPhotonics network, supporting photonics applications in agriculture through network coordination, funding proposal consulting, and research project management. Previously conducted research at the Laser Centre Hannover on laser weeding combined with computer vision and robotics, and at Hochschule Münster on laser weeding and laser material processing. Combines technical expertise in photonics with experience in collaborative research and innovation management.

Mereille Claessens (UTwente)

Medical Photonics



"Tracking the parkinson's Protein α -Synuclein with Light: From conformational Dynamics to Clinical Biomarker Detection"

Prof. Dr. Mireille Claessens chairs the Nanobiophysics group at the University of Twente and recently took up the chair of Medical Molecular Biophysics at the UMCG in Groningen. She studied Molecular Sciences and obtained her PhD at Wageningen University. Her group investigates intrinsically disordered proteins — most notably α -synuclein and its role in Parkinson's disease — using state-of-the-art single-molecule spectroscopy combined with complementary biophysical and biochemical tools.

Nienke ten Haaf (TNO)

Free-Space Photonics



"Toward Quantum Communication via Space: Space granting a PIC-Based Entangled Photon Source"

Nienke ten Haaf is a researcher in the Quantum Technology department at TNO. She holds an MSc in Applied Physics from TU Delft and specializes in freespace and fiber quantum optics and nanofabrication. She currently works on the development, integration, and experimental validation of quantum communication demonstrators, with a primary focus on quantum communication via space. Her work combines optical system development with hands-on integration of quantum communication setups aimed at deployment beyond laboratory environments.

Pascal van Grol (ValleyOptics)

Free-Space Photonics



"Integrated Software Platform Approach for Opto-Mechanical System Development"

Pascal van Grol is Founder and CEO of Valley Optics, a Delft-based company developing advanced software and methods for optical engineering. With more than 20 years of experience in optics, he combines deep technical expertise with entrepreneurial leadership.

As a Physics graduate from TU Delft and former optical designer at TNO, Pascal focuses on bridging optical and mechanical engineering and improving the development of complex opto-mechanical systems through innovative software and integrated engineering workflows, supporting faster, smarter, and more efficient optical innovation.

Pepijn Pinkse (UTwente)

Quantum Nanophotonics



"Quantum Photonics from twente"

Pepijn Pinkse obtained his Ph.D. in 1997 at the University of Amsterdam. Thereafter, he performed seminal cavity QED experiments at the University of Konstanz and at the Max Planck Institute for Quantum Optics (MPQ). Here, he worked on cooling and trapping molecules. In Twente since 2009, he pioneered quantum-secure authentication. He chairs the Adaptive Quantum Optics group and leads the centre for QUantum Nanotechnology Twente (QUANT). Presently, he is combining quantum optics with nanofabricated media, in particular integrated photonics.

Remco den Breeje (Airbus)

Defense



"High-Data-Rate Defense Lasercom: Current Capabilities and Photonic Outlook"

Remco den Breeje is an experienced systems engineer specializing in high-tech mechatronics, space systems, and optical communications. After studying Applied Physics, he spent nearly 15 years at TNO designing complex instruments for astronomy, semiconductor lithography, and adaptive optics ground station demonstrators. Since founding OC Engineering, he provides systems engineering expertise across the space and defense sectors including acting as a System Architect for Airbus Netherlands to advance next-generation free-space optical communication technologies.

Roland Blok (Aircision)

Free-Space Photonics



"Free Space Optical Communication: High Speed, long distance terrestrial communication"

Roland Blok has over 25 years of experience in the high-tech industry, specializing in system software development and integration. He combines physics, mathematics, electronics, and software engineering to develop effective technical solutions and works well in large multidisciplinary teams.

His achievements include co-designing the first ASML EUV metrology system and creating the software architecture for the first ASML EUV volume system. Currently, at Aircision, Roland leads efforts to deliver solutions for dual-use Free Space Optical communications.

Sabina Caneva (TU Delft)

Nanophotonics for sensing and biology



"Nanophotonics devices for Single-molecule Biophysics"

Sabina Caneva is Associate Professor and Delft Technology Fellow in the Department of Precision and Microsystems Engineering at TU Delft. She is interested in bridging advances in instrumentation and nanofabrication with insights into biophysical phenomena at the smallest scale. Her group focuses on developing ultrasensitive nanoelectromechanical systems (NEMS) to study fundamental questions and tackle challenges in nanobiology, including molecular diagnostics and size-selective biomolecular transport across cell membranes.

Sander den Hoedt (Delmic)

Metrology



"Photons & electrons: Nanoscale inspection in Photonics"

Sander den Hoedt is CEO & Co-founder of Delmic. Sander has led the company since its founding in 2010, growing the company from a TU Delft spinout to a 40+ person scale-up with 220+ installed systems globally. Completed dual degrees in Applied

Physics at TU Delft and Law at Leiden University simultaneously, and worked in the IP department of Mapper Lithography — a TU Delft semiconductor machine spinout.

Delmic is focused in bringing next-generation tools and automation to the field of electron microscopy, with the goal of making nanoscale data much more accessible.

Tamas Erkelens (Ministry of Defense)

Keynote



"The importance of photonics and deep tech for the security of the Netherlands: why, what, and how entrepreneurs and researchers can contribute."

Tamas Erkelens is a Dutch expert in data innovation, public tech, and crisis dashboards within the public sector. Since September 2025, he has been working as Deputy Head of Knowledge and Innovation

(Deputy CSO) at the Ministry of Defence.



Poster Session

The background of the slide is a solid black field. Overlaid on this are several dynamic, glowing light patterns. These include multiple thin, curved white lines that sweep across the frame, and a series of horizontal, slightly wavy purple lines that create a sense of depth and movement. The overall aesthetic is modern and technological.

Wednesday

#	Author full name	Author Affiliation	Title of Presentation
1	Roel Hacking	TU Eindhoven	Network surface representations
3	Pieter Braam	TU Eindhoven	An Inverse Method to Design a Freeform Two-Target Reflector System
3	Pieter Braam	TU Eindhoven	An Inverse Method to Design a Freeform Two-Target Reflector System
5	Kumar Rishav	TU Delft	Global Optimization in Optical Design using assisted Saddle Point Detection
7	Maurits van der Heiden	TNO	Ghost signal from a photo acoustic signal from a wire in a water tank
9	Ton Koonen	TU Eindhoven	Breaking the Barriers in Wireless Communication by Optical Beams - the NWO FREE programme
11	Diego Vargas Romero	TU Eindhoven	Pitfalls in direct modulation of LEDs and lasers for Optical Wireless Communications
15	Léa Chaccour	TU Eindhoven	Machine learning for integrated InP F-P laser failure prediction
17	Hanin Ayash	TU Eindhoven	Achromatic Hybrid Metalens for Visible-NIR Wavelengths Using Inverse-Designed Bilayer Metasurfaces
19	Djero Peeters	TU Eindhoven	Cross-Polarization Conversion and Extrinsic Chirality in Nonlocal Metasurfaces
21	Joost Scheers	TU Eindhoven	Meta-surfaces for etendue reduction in optical wireless communications.
23	Muhammad Irfan	Fizinių ir technologijos mokslų centras (FTMC)	Metasurface-Enabled Synthesis of Tunable Vortical Optical Needles
25	Aurèle Adam	AMOLF	Understanding Information through a Decomposition into Poles and Zeros
27	August Joan Otto Röell	TU Eindhoven	Mueller matrix scatterometry for metasurface metrology
29	Anne van Klinken	ARCNL	Computational Control of Speckles in Diffraction-based Overlay Metrology
33	Natalia Vakula	TU Delft	Deep learning-enabled coherent Fourier scatterometry for 3D optical characterization of van der Waals materials
35	Anubhav Paul	Erasmus MC	Imaging Collagen Fiber Orientation in Atherosclerotic Plaques with PS-OCT
37	Pegah Asgari	TU Delft	Efficient Correction of Spatially Variant Aberrations in Coherent Imaging
39	Wei-Yun Lee	AMOLF	Inverse design of high-Q nanocavities for strong light-matter interactions through resonance-locked topology optimization
41	Tuoyu Chen	Utrecht University	Photonic properties of icosahedral supraparticles
43	Jesse Bückmann	University of Amsterdam	Nonlocal 2D Excitonic Metasurfaces for Active Wavefront Manipulation
45	Mehmet Atif Durmus	University of Amsterdam	Spontaneous Emission Rate in Absorbing Inhomogeneous Media
47	Charly Bolhuis	AMOLF	Fano resonances in oligomerized gratings
49	Steven Verwer	TU Delft	On-chip single-photon spectroscopy using a tunable photonic crystal cavity
53	Harmen Smedes	TU Eindhoven	Real-time monitoring of electrochemical reactions by THz time-domain spectroscopy
55	Bram Heijnen	AMOLF	Mechanical squeezing using nanophotonic optomechanical cavity
61	Christian Anker Rosiek	TU Eindhoven	Certification of linear optical quantum state preparation
63	Naomi Spier	Saxion UAS	Modular Optoelectronics For Diamond NV Based Quantum Sensing
65	Ari Rolando Ortiz-Moreno	University of Twente / TU Eindhoven	Integrated SiN source architectures for quantum light generation and on-chip spectral control

69	Daniel Nascimento-Duplat	TU Eindhoven	Towards nanoparticle-amplified biosensing with integrated PhC
71	Vincenzo Lamberti	TU Eindhoven	Nonlinear Linewidth Compression in Micro-rings for Enhanced Optical biosensing
73	Rui Fang	TU Eindhoven	Real Time Characterization of Nanoparticles in Solution Using Fiber-Tip Photonic Crystal Cavities
77	Hasan Yalcinoglu	TU Eindhoven	High-Resolution spectral sensors for multispectral read-out
79	Fe Fan Li	TU Eindhoven	Refractive index sensing using multispectral readout
81	Felix Leopold McCluskey	TU Eindhoven	From Photons to Synapsis: Quantum-Dot Embedded RTD Photodetectors for Neuromorphic Applications
84	Saif Alomari	TU Eindhoven	From Photons to Synapsis: Quantum-Dot Embedded RTD Photodetectors for Neuromorphic Applications

Thursday

#	Author full name	Author Affiliation	Title of Presentation
2	Viola Spagnuolo	Nikhef Institute	Cooling down the cosmos: A cryogenic optical setup for coating thermal noise direct measurements in gravitational-wave science
4	Roy van der Linden	Advanced Research Center for Nanolithography (ARCNL)	Control of high-harmonic generation using a three-color waveform synthesizer
6	Xavier Attendu	Amsterdam UMC	Analytical Intralipid: Simulating optical properties in the dependent scattering regime
8	Krystallis Tersis	TU Eindhoven	Extending the Spectral Range of NIR Resonant-Cavity-Enhanced Photodetectors
10	Cas J. C. Scheper	TU Eindhoven	Non-destructive carrier density characterization of InP/InGaAs/InP PIN structures using THz-TDS
12	Zizheng Li	TU Delft	Amorphous silicon carbide heterogeneous photonic integration platforms
14	Salim Abdi	TU Eindhoven	Thermal Performance of AlN and hBN Materials as Heat Spreaders for InP UTC-PDs on Si
16	Riley te Morsche	University of Twente	Integrated Brillouin Lasing in Foundry Si ₃ N ₄
18	Kehan Wang	TU Eindhoven	Chiral Photoluminescence from Quasi-BIC Metasurfaces Enabled by Symmetry Breaking
20	Lucas Roelf Leonardus Norg	TU Eindhoven	Metasurfaces towards single-molecule fluorescence enhancement
22	Francesca Cussiol	TU Eindhoven	Coma-Corrected Wide Field-of-View Metalens
24	Zhiyu Chen	TU Eindhoven	Random-phase metasurface-assisted optical phased arrays for large-FoV and high-resolution beam steering
26	Yiming Liu	TU Delft	Topology of image distortion fields driven by optical misalignment
28	Valerii Brudanin	TU Delft	Spectral signal-to-noise ratio based aberrated OTF retrieval from structured illumination microscopy data
30	Eline Vos	Imec the Netherlands	Impact of kernel and region of interest sizes on Speckle Plethysmography quality
32	Ruud Jansen	TU Eindhoven	Guided-Mode Resonance Gratings as Integrated Optical Metrology Targets for Inline Process Monitoring
34	Junghoon Kim	Vrije Universiteit / Advanced Research Center for Nanolithography	Dispersion Compensation in Multispectral dark-field Digital Holographic Microscopy of Overlay Metrology
36	Koen J.A. Martens	TU Delft	Single-molecule microscopy on event-based sensors: model development and fitting
38	Enya Berrevoets	TU Delft	Vectorial Point Spread Function model for Oblique Plane light sheet microscopy
40	Yanheng Mao, Zhu Zhang, and Allard P. Mosk	Nanophotonics, Debye Institute for Nanomaterials Science, Utrecht University	Opto-Iontronic Microscopy of Hydrogen Evolution in Nanoholes
42	Ershad Mohammadi	University of Amsterdam	Active Control of Optical Diffraction Using Excitonic Gratings
44	Yutong Wang	TU Delft	Assessment of Fixed-Dipole Effects of Single Molecule Emitters in a Cryogenic 4Pi Microscope
46	Martin P. van Exter	Leiden University	Magnetic-field sensors with NV centers in diamond and their dependence on optical and microwave power
48	Jorik van de Groep	University of Amsterdam	Exciton Resonance Tuning in Dynamic 2D Metasurfaces

50	Riccardo Farina	TU Eindhoven	Heat Management in Hex-SiGe Nanowires for Silicon-Compatible Lasers
52	Jeroen de Winter, Arnoud Marquart, Martyna Kaminska	Delta Life Science	Small Molecule Intercations
54	David van Houten	University of Amsterdam	Tracing Excitons to Single Photons: Ultrafast and Correlation Measurements in Exfoliated TMDC Monolayers
56	Piyush Kaul	TU Eindhoven	Photonic and Electronic Integration of Detectors for Wireless Optical Communication
58	Willem L. Vos	TU Eindhoven	"Cartesian Light": Photon Hopping on 3D Cavity Networks in Silicon Photonics
60	Amna Ammar	University of Twente	Effect of Sample Thickness on Wavefront Shaping Enhancement in Plasmonic Scattering Structures
62	Eitan Oksenberg	Single Quantum B.V.	Pushing The Limits of Mid-Wave Infrared Detection with Superconducting Nanowire Single-Photon Detectors
64	Frank van der Ceelen	TU Delft	Tuning background medium of Rachford-split Born series
66	Yago Herrera Moreno de Acevedo, Federica Facchin, Mario Castaneda	Single Quantum B.V.	A comprehensive polarization-response measurement of fractal SNSPDs
68	Kunyuan LI	University of Twente	Boson sampling in a microring based spatiotemporally multiplexed interferometer
70	Innes Lewontin Maxwell	TU Eindhoven	A Quantum-Inspired Algorithm for Graph Isomorphism
72	Kasun Dissanayake	TU Delft	Advanced Fiber Optic Hydrogen Sensing for Leak Detection in Hydrogen Powered Aviation
74	Katarzyna Szykula-Meurs	Maastricht University	Novel Raman Sensor for High-Resolution Detection of Small Spectral Shifts
76	Marta Saccher	TNO	Towards high sensitivity photoacoustic imaging with Integrated Photonic Ultrasound Transducers
78	Tristan Robert van Trikt	The Hague University of Applied Sciences	Experimental performance comparison of electric strain gauges and fiber Bragg grating sensors in composites under four-point bending.
80	Philip Jacob	TU Eindhoven	Near-infrared skin hydration measurements using an integrated multispectral sensor
82	Max P. Sowinski	TU Delft	Automated Online Monitoring of Smart Composite Structures using Integrated Fiber Optic Sensors
86	Ferhat Hanife	Gazi University	Tuning Imaging Resolution through Mirror Tilt in Mach-Zehnder Interferometric Microscopy: An Experimental and Numerical Study
88	Daan Weltens	TU Eindhoven	Mid-infrared hex-SiGe photodetector
90	Ruben Schreurs	TU Eindhoven	YAG:Ce Nanocrystals for Future μ -LED Technologies
92	Boris de Jong	Utrecht University	Enhancing light absorption in nano-YAG:Ce through photonic design
94	Liane van Halteren	TU Eindhoven	Cryogenic Silicon-Photonics-Based Optical Interconnects for a Quantum Computer
96	Gregorio Beltramo	Vrije Universiteit	Electro-optically tunable photonic integrated meta circuit for ultrafast and precise waveform shaping
98	Michiel de Dood	Leiden University	To be determined

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