2026 | OVERVIEW

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8–11 June 2026 | University of Waterloo
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SPIE. PHOTONICS FOR QUANTUM

8–11 June 2026 | Waterloo, Ontario, Canada

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Welcome to Photonics for Quantum

Get ready to enjoy real conversations, hear the latest breakthroughs that address the central role photonics plays in advancing quantum technologies — from the fundamental stages of research through the work being done to deliver a commercial quantum infrastructure. Attend technical presentations, invited talks, poster session, lab tours, and a variety of networking activities for learning and professional advancement opportunities.

CONFERENCE CHAIRS

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Univ. of Waterloo (Canada)

Nir Rotenberg
Queen's University (Canada)

Lindsay LeBlanc
Univ. of Alberta (Canada)

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TWIN PARADOX LABS

Welcome Reception and Poster Viewing

9 June 2026 • 4:30 PM - 6:30 PM | IQC Office, Level 2

Conference attendees are invited to attend this Tuesday evening welcome reception and poster session. Come view the posters, enjoy light refreshments, ask questions, and network with colleagues in your field.

Poster Setup: Tuesday 10:00 AM–4:30 PM

Poster authors, view poster presentation guidelines and set-up instructions at:
https://spie.org/PFQ/Poster-Guidelines

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Networking Lunch

8 June 2026 • 12:20 PM - 1:50 PM | SLC, Multi-Purpose Room
9 June 2026 • 12:20 PM - 1:50 PM | SLC, Multi-Purpose Room
10 June 2026 • 12:50 PM - 2:20 PM | SLC, Multi-Purpose Room
11 June 2026 • 12:40 PM - 2:00 PM EDT | SLC, Multi-Purpose Room

All attendees are invited to join your colleagues for an SPIE hosted lunch. A variety of daily meals with gluten free and vegetarian options will be provided.

Lab Tours of the University of Waterloo

11 June 2026 • 2:00 PM - 3:30 PM | QNC 0101 Lobby

Photonics for Quantum attendees are invited to tour the labs at the University of Waterloo. Shuttles provided.

Quantum Photonic Devices Lab (Prof. Michael Reimer)
The QPD lab at the Institute for Quantum Computing focuses on developing InAsP/InP nanowire-based quantum dot sources for high-rate single-photon/entangled photon generation as a platform for quantum networks as well as exploring waveguide quantum electrodynamics. The lab is also developing novel quantum detectors based on InGaAs nanowire metasurface APDs for applications in imaging and sensing, and photonic integrated circuits to manipulate light at the single photon level.

QuantumIon Lab (Prof. Rajibul Islam)
The QuantumIon lab develops a quantum processor using up to 16 barium ion qubits. Our system features a Sandia National Labs surface trap with 96 DC electrodes and a centrally-positioned design that maximizes optical access while maintaining ultra-high vacuum. We have developed specialized preparation methods for ^{133}Ba sources and use novel waveguide technology to achieve individual ion control with negligible crosstalk. As part of the Open Quantum Design initiative, this system will provide remote access for academic quantum research.

Engineered Quantum Systems Lab (Prof. Chirs Wilson)
The EQS lab at the Institute for Quantum Computing investigates light-matter interactions in the quantum regime using superconducting microwave circuits. Research efforts include microwave quantum optics, waveguide quantum electrodynamics, and analog quantum simulation.

Nano-Photonics and Quantum Optics Lab (Prof. Michal Bajcsy)
The NPQO lab at the Institute for Quantum Computing explores novel light-matter and photon-photon interactions using nanoscale photonic structures such as photonic-crystal slabs, metasurfaces, and hollow-core fibers. By interfacing quantum emitters—including cold atoms, quantum dots, and color centers—the lab investigates hybrid quantum systems that bridge platforms like single-photon sources, atomic memories, and superconducting qubits. Current projects also integrate approaches from nanophotonics, cold atom physics, and machine learning, with applications ranging from quantum networks to biosensing using graphene-oxide–based FETs.

Photonics for Quantum 2026

Conference 14143 | Location: QNC 0101

TIME	8 JUNE 2026
9:25 AM - 9:40 AM QNC 0101	**Welcome and Opening Remarks,** Session Chairs: **Norbert Lütkenhaus,** Univ. of Waterloo (Canada); **Michael E. Reimer,** Univ. of Waterloo (Canada); **Nir Rotenberg,** Queen's Univ. (Canada); **Lindsay LeBlanc,** Univ. of Alberta (Canada) Join this year's conference chairs for the welcome and opening remarks for Photonics for Quantum 2026
9:40 AM - 10:45 AM	**SESSION 1: Quantum Spins** Session Chair: **Michael E. Reimer,** Univ. of Waterloo (Canada)
	14143-1 • Keynote Presentation **Quantum technologies with crystal defects: a tale of gemstone and light,** Mete Atatüre, Univ. of Cambridge (United Kingdom)
	14143-2 • **Nanophotonic spin–photon interfaces for integrated quantum technologies,** Hamidreza Siampour, Queen's Univ. Belfast (United Kingdom)
10:45 AM	**Coffee Break**
11:40 AM - 12:20 PM	**SESSION 2: QUANTUM DEFECTS** Session Chair: **Tim Schröder,** Humboldt-Univ. zu Berlin (Germany)
	14143-5 • **Spoof plasmonic resonators for enhanced microwave coupling in NV-center quantum magnetometry,** Dylan Cazares, Roman Shugayev, Maxwell Stonham, Brandon Munguia Torres, Univ. of Nevada, Las Vegas (USA)
	14143-6 • **Microwave-induced fluorescence of ensemble NV centers using PCB-based RF devices for quantum sensing,** Atefe Safinezhad, Aashutosh Kumar, Richard Al Hadi, Bora Ung, Ecole de Technologie Supérieure (Canada)
12:20 PM	**Lunch Break**
1:50 PM - 3:00 PM	**SESSION 3: Atomic Quantum Optics** Session Chair: **Erika Janitz,** Univ. of Calgary (Canada)
	14143-7 • **Experimental investigation of relaxation for far-from equilibrium quantum many body system,** Vanderlei S. Bagnato, Texas A&M Univ. (USA)
	14143-8 • **All-optical RF phase detection in Rydberg atom-based sensors using closed-loop dynamics,** Hongqiao Zhang, Pinrui Shen, Hanna Lippmann, Stephanie M. Bohaichuk, James P. Shaffer, Quantum Valley Ideas Lab. (Canada)
	14143-9 • Invited Paper **Atomic superradiance generates strong light-matter coupling for advantage in quantum networking,** Lindsay LeBlanc, Univ. of Alberta (Canada)
3:00 PM	**Coffee Break**
3:30 PM - 5:20 PM	**SESSION 4: QUANTUM PHOTONIC SYSTEMS** Session Chair: **Mete Atatüre,** Univ. of Cambridge (United Kingdom)
	14143-10 • **Chip-scale atomic spectroscopy utilising silicon nitride photonic integrated circuits for quantum sensing,** Jeremi Januszewicz, Marc Sorel, Univ. of Glasgow (United Kingdom); James P. McGilligan, Paul F. Griffin, Erling Riis, Univ. of Strathclyde (United Kingdom); Douglas J. Paul, Kevin Gallacher, Univ. of Glasgow (United Kingdom)
	14143-11 • **Hybrid continuous-variable photonic QNNs for medical imaging under realistic gaussian and readout constraint,** Daniel Alejandro Lopez Montiel, Oscar Montiel Ross, Instituto Politécnico Nacional (Mexico); Oscar Castillo, Instituto Tecnológico de Tijuana (Mexico); Miguel Lopez, CETYS Univ. (Mexico)
	14143-12 • **Time-encoded quantum photonic neural networks,** Ivanna M. Boras, Jacob Ewaniuk, Nir Rotenberg, Queen's Univ. (Canada)
	14143-13 • Invited Paper **Quantum spectrometer: acquiring spectra, emission lifetimes, correlations and cross-correlations,** Valery Zwiller, Single Quantum B.V. (Netherlands), Quantum Scopes AB (Sweden)
	14143-14 • **Scalable integrated photonic systems for highly parallelized optical qubit control,** Julius Römer, Julian Rasmus Bankwitz, Linq Photonics GmbH (Germany), Ruprecht-Karls-Univ. Heidelberg (Germany); Wolfram H.P. Pernice, Ruprecht-Karls-Univ. Heidelberg (Germany)

Photonics for Quantum 2026

Conference 14143 | Location: QNC 0101

TIME	9 JUNE 2026
9:00 AM - 10:30 AM	**SESSION 5: QUANTUM NETWORKS** Session Chair: **Valery Zwiller,** Single Quantum B.V. (Netherlands)
	14143-15 • Keynote Presentation **Quantum networking with diamond spin-photon interfaces,** Tim Schröder, Humboldt-Univ. zu Berlin (Germany)
	14143-16 • **Interfacing quantum dot single-photon emitters with cesium atomic vapor,** Hala Said, Esteban Gómez-López, Humboldt-Univ. zu Berlin (Germany); Moritz Meinecke, Jonathan Jurkat, Tobias Huber-Loyola, Sven Höfling, Julius-Maximilians-Univ. Würzburg (Germany); Oliver Benson, Humboldt-Univ. zu Berlin (Germany)
	14143-100 • Invited Paper **Development of the NPL local area quantum network and its digital twin,** Ted Silva Santana, Rong Xue, Robert Ferguson, Namneet Kaur, Jacques-Olivier Gaudron, Irshaad Fatadin, Christopher Chunnilall, Alexander Tzalenchuk, National Physical Lab. (United Kingdom)
10:30 AM	**Coffee Break**
11:00 AM - 12:20 PM	**SESSION 6: QUANTUM SENSING AND IMAGING** Session Chair: **Klaus D. Jöns,** Univ. Paderborn (Germany)
	14143-17 • Invited Paper **Toward nuclear spin imaging in single molecules with diamond quantum sensors,** Erika Janitz, Univ. of Calgary (Canada)
	14143-18 • Invited Paper **Photonic quantum sensing with squeezed light,** Alex S. Clark, Univ. of Bristol (United Kingdom)
	14143-19 • **A quantum interferometer for high-resolution astronomical imaging,** Joshua Collier, John Wallis, Elrina Hartman, David Gozzard, The Univ. of Western Australia (Australia)
12:20 PM	**Lunch Break**
1:50 PM - 2:50 PM	**SESSION 7: PHOTON SOURCES** Session Chair: **Luke R. Wilson,** The Univ. of Sheffield (United Kingdom)
	14143-20 • **Deterministic assembly of a nanowire quantum emitter-circular Bragg resonator hybrid device for enhanced light-matter interaction,** Megha Jain, National Research Council Canada (Canada), Queen's Univ. (Canada); Palwinder Singh, National Research Council Canada (Canada), Univ. of Waterloo (Canada); Lindsay Yu, Seid Jebril Mohammed, David B. Northeast, Jean Lapointe, Philip J. Poole, Robin L. Williams, National Research Council Canada (Canada); Nir Rotenberg, Queen's Univ. (Canada); Michael E. Reimer, Univ. of Waterloo (Canada); Dan Dalacu, National Research Council Canada (Canada)
	14143-21 • **Metallic nano-rings for plasmonic-assisted quantum light control,** Luca Sapienza, Univ. of Cambridge (United Kingdom)
	14143-52 • **Electrical control of single nanowire quantum dots via multi-gate architectures,** Kai-Sum Chan, Univ. of Toronto (Canada), National Research Council Canada (Canada), Quantum Bridge Technologies Inc. (Canada); Megha Jain, Queen's Univ. (Canada), National Research Council Canada (Canada); Samridhi Gambhir, Quantum Bridge Technologies Inc. (Canada); Seid Jebril Mohammed, David B. Northeast, Philip J. Poole, Robin L. Williams, Marek Korkusinski, National Research Council Canada (Canada); Tarun Patel, Matteo Pennacchietti, Michael E. Reimer, Univ. of Waterloo (Canada); Hoi-Kwong Lo, National Univ. of Singapore (Singapore), Quantum Bridge Technologies Inc. (Canada); Li Qian, Univ. of Toronto (Canada); Dan Dalacu, National Research Council Canada (Canada), Univ. of Toronto (Canada)
2:50 PM	**Coffee Break**

3:20 PM - 4:00 PM	**SESSION 8: QUANTUM COMMUNICATION** Session Chair: **Lindsay LeBlanc,** Univ. of Alberta (Canada)
	14143-24 • **An overview of the QEYSSat quantum ground station at the Canadian Space Agency,** Alexey B. Tikhomirov, Daniel Cloutier-Grenier, Éric Gloutnay, Tyler Hrynyk, Patrick Irvin, Alexander Koujelev, Lydia Philpott, Stephane Routhier, Hicham Safoine, Maude Robichaud, Dawn Zheng, Canadian Space Agency (Canada); Thomas Jennewein, Paul Godin, Brendon Higgins, Katanya B. Kuntz, Brian Moffat, Sungeun Oh, Eva Pearson, Justin B. Schrier, Univ. of Waterloo (Canada); Roman Malicki, Jeffrey Cain, Peter Cameron, Ian A. D'Souza, Chidiebere Onyedinma, Hugh Podmore, Lael Rouhafzay, Alan Scott, Michael Taylor, Honeywell Aerospace (Canada)
	14143-25 • **On the viability of transatlantic quantum entanglement distribution using combined satellite and stratospheric relay nodes,** Kimia Mohammadi, Paul Godin, Katanya B. Kuntz, Institute for Quantum Computing, Univ. of Waterloo (Canada); Thomas Jennewein, Institute for Quantum Computing, Univ. of Waterloo (Canada), Simon Fraser Univ. (Canada)
4:00 PM	**Coffee Break**
4:30 PM- 6:30 PM IQC Office, Level 2	**WELCOME RECEPTION AND POSTER VIEWING** Conference attendees are invited to attend this Tuesday evening welcome reception and poster session. Come view the posters, enjoy light refreshments, ask questions, and network with colleagues in your field. **Poster Setup:** Tuesday 10:00 AM – 4:30 PM
	14143-46 • **Digital twins as a testbed for quantum machine learning in FMCW radar sensing,** Sebastian Ratto, University of Waterloo (Canada); Ahmed N. Sayed, Univ. of Waterloo (Canada); Arien Sligar, Synopsys, Inc. (USA); Jose Rosas-Bustos, Applied Quantum Technologies Institute (Canada); Omar M. Ramahi, George Shaker, Univ. of Waterloo (Cana
	14143-47 • **Predictive adaptive optics using pioneer beacons for satellite quantum communication,** Kai-Sum Chan, The Univ. of Hong Kong (Hong Kong, China), Univ. of Toronto (Canada); Hoi Fung Chau, The Univ. of Hong Kong (Hong Kong, China)
	14143-48 • **Progress on a portable two-photon cesium optical clock,** Kenneth G. Jackson, Scott Smale, Su-Peng Yu, Quantum Valley Ideas Lab. (Canada); Mina Bionta, Nitika Vaish, Katelyn Gilchrist, Quantum Valley Ideas Lab (Canada); Donald Booth, James P. Shaffer, Quantum Valley Ideas Lab. (Canada)
	14143-49 • **Electrically addressable MIRO-101 MOF optical crystals for tunable quantum photonic components,** Nadeem Said, Sebastian Ratto Valderrama, Roydon Fraser, Jose Rosas-Bustos, Jesse Van Griensven The, Univ. of Waterloo (Canada); Felipe Herrera, Univ. de Santiago de Chile (Chile)
	14143-50 • **Micro-machined photonic vapor cells for Rydberg receivers,** Su-Peng Yu, Ruoxi Wang, Sanyasi Bobbara, Quantum Valley Ideas Lab. (Canada); Mohammad Noaman, WaveRyde Instruments (Canada); Reza Kohandani, Adam Sibenik, Quantum Valley Ideas Lab. (Canada); Rajesh Pandiyan, Donald Booth, WaveRyde Instruments (Canada); Stephanie M. Bohaichuk, Quantum Valley Ideas Lab. (Canada); James P. Shaffer, Quantum Valley Ideas Lab. (Canada), WaveRyde Instruments (Canada)
	14143-51 • **Imaging quantized Landau orbits with elastic XUV scattering,** Lara Greten, Sabrina Meyer, Andreas Knorr, Technische Univ. Berlin (Germany); Stephen Hughes, Queen's Univ. (Canada)
	14143-53 • **Engineering high-efficiency deterministic single-photon emitter arrays: a monolithic inverse-design approach,** Amrita Majumder, Hrushikesh Gawali, Janhavi Khunte, Srivatsa Murali, Ikshvaku Shyam, Anshuman Kumar, Indian Institute of Technology Bombay (India)
	14143-54 • **Superradiant enhancement of heralded single photon generation in cold alkali ensembles,** Travis Hosack, Amaru Moya, Univ. of Alberta (Canada); Anindya Rastogi, Univ. of Alberta (Canada), Infleqtion (United Kingdom); Lindsay LeBlanc, Univ. of Alberta (Canada)

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4:30 PM-6:30 PM IQC Office, Level 2	**WELCOME RECEPTION AND POSTER VIEWING**
	14143-55 • **Electric field energy tuning of an InAsP/InP nanowire quantum dot,** Anthony Drouin, Univ. of Waterloo (Canada); Tarun Patel, Matteo Pennacchietti, Stephen Harrigan, Greg Holloway, University of Waterloo (Canada); Dan Dalacu, Philip J. Poole, National Research Council Canada (Canada); Michael E. Reimer, University of Waterloo (Canada)
	14143-56 • **Inverse design of bullseye cavities using tandem neural networks,** Martin Sanchez, Christer Everly, Lukas M. Weituschat, Pablo A. Postigo Resa, The Institute of Optics, Univ. of Rochester (USA)
	14143-57 • **Development of an ultrahigh vacuum system for ultracold atoms in space,** Marvin Warner, Mareen Czech, Jens Grosse, ZARM Technik AG, Univ. Bremen (Germany)
	14143-58 • **Wavefront correction of position-momentum entangled light for qkd applications,** Sushil A. Mujumdar, Tata Institute of Fundamental Research (India)
	14143-60 • **Integrated fiber-coupled NV sensors for compact and deployable quantum sensing,** Cody Stewart, Erika Janitz, Univ. of Calgary (Canada)
	14143-61 • **Developing diamond-defect devices for quantum sensing applications,** Pooja Woosaree, Univ. of Calgary (Canada)
	14143-62 • **Design and fabrication of GaN distributed feedback lasers for optical atomic clocks,** Shuqiao Cai, Daehyun Kim, Finlay Walton, Univ. of Glasgow (United Kingdom); Sean Mulholland, Ian Hill, National Physical Lab. (United Kingdom); Stephen P. Najda, TopGaN Ltd. (Poland); Piotr Perlin, Tadek Suski, Lucja Marona, Mike Leszczynski, Szymon Stanczyk, TopGaN Ltd. (Poland), Institute of High Pressure Physics (Poland); Patrick Gill, National Physical Lab. (United Kingdom); Anthony E. Kelly, Scott Watson, Univ. of Glasgow (United Kingdom)
	14143-63 • **Technology development for hybrid quantum inertial sensing in space,** Dennis Knoop, Isabel Alejandra Parga García, Marian Woltmann, Sven Herrmann, Jens Grosse, ZARM - University of Bremen (Germany)
	14143-65 • **Optimization of T-centre formation in silicon-on-insulator wafers for quantum technologies,** Glynnis Mutch, Erika Janitz, Univ. of Calgary (Canada)
	14143-67 • **Recovering Lorentzian resonances buried in noise using deep neural networks,** Lukas M. Weituschat, Martin Sanchez, Christer Everly, Pablo A. Postigo Resa, Univ. of Rochester (USA)
	14143-69 • **Representing non-Gaussian characteristics in spontaneous parametric down conversion,** Paul Hughes, Marc M. Dignam, Queen's Univ. (Canada)
	14143-70 • **Design and implementation of a weak-coherent pulse source for satellite quantum key distribution,** Justin B. Schrier, Arsalan Khan, Jack Ehling, Paul Godin, Univ. of Waterloo (Canada); Thomas Jennewein, Simon Fraser Univ. (Canada), Univ. of Waterloo (Canada)
	14143-72 • **High-speed phase-randomized optical pulse generation at 10 GHz for quantum key distribution,** Yuen San Lo, Toshiba Europe Ltd. (United Kingdom); Adam Brzosko, Toshiba Europe Ltd. (United Kingdom), Univ. of Cambridge (United Kingdom); Peter R. Smith, Robert Woodward, Davide Marangon, James Dynes, Toshiba Europe Ltd. (United Kingdom); Sergio Juárez, Toshiba Europe Ltd. (United Kingdom), Univ. de Vigo (Spain); Taofiq Paraïso, Mark Stevenson, Andrew Shields, Toshiba Europe Ltd. (United Kingdom)
	14143-73 • **Review of current state-of-the-art fiber arrays from FiberTech Optica: capabilities and limitations for non-aficionados,** Paul Fournier, Jakob Devey, Fibertech Optica Inc. (Canada)
	14143-4 • **Measuring the quantum efficiency of the group-IV defects,** Ben Graham, Pooja Woosaree, Vinaya Kumar Kavatamane, Univ. of Calgary (Canada); Ilya P. Radko, XPANCEO Research on Natural Science LLC (United Arab Emirates); Erika Janitz, Univ. of Calgary (Canada)
	14143-103 • **Photon precertification without feed-forward,** Deny Hamel, Alexandre Z. Leger, Lambert Giner, Univ. de Moncton (Canada)

TIME	10 JUNE 2026
9:20 AM - 10:50 AM	**SESSION 9: QUANTUM DOT DEVICES** Session Chair: **Kai M. Müller,** Technische Univ. München (Germany)
	14143-26 • Keynote Presentation **Quantum photonics with color centers in silicon: recent advances and open challenges,** Jean-Michel Gérard, CEA-IRIG-PHELIQS (France)
	14143-27 • **Coherent excitation of nanowire quantum dots using notched adiabatic rapid passage (NARP),** Kim A. Owen, Univ. of Ottawa (Canada), National Research Council Canada (Canada); Grant Wilbur, Kimberley C. Hall, Dalhousie Univ. (Canada); Philip J. Poole, National Research Council Canada (Canada); Angela Gamouras, Univ. of Ottawa (Canada), National Research Council Canada (Canada); David B. Northeast, Robin L. Williams, National Research Council Canada (Canada); Dan Dalacu, Univ. of Ottawa (Canada), National Research Council Canada (Canada)
	14143-101 • Invited Paper **Cold dots and warm atoms: building blocks for quantum networks,** Klaus D. Jons, Univ. Paderborn (Germany
10:50 AM	**Coffee Break**
11:20 AM - 12:50 PM	**SESSION 10: ENGINEERING QUANTUM LIGHT** Session Chair: **Tarun Patel,** Univ. of Waterloo (Canada)
	14143-28 • Invited Paper **Unlocking multiphoton emission from a single-photon source through mean-field engineering,** Kai M. Müller, Technische Univ. München (Germany)
	14143-29 • **Mode matching to nanowire quantum dots for waveguide-QED,** Matteo Pennacchietti, Tarun Patel, Sayan Gangopadhyay, Univ. of Waterloo (Canada); Dan Dalacu, Univ. of Ottawa (Canada), National Research Council Canada (Canada); Philip J. Poole, Robin L. Williams, National Research Council Canada (Canada); Stephen Hughes, Queen's Univ. (Canada); Michael E. Reimer, Univ. of Waterloo (Canada)
	14143-30 • **QwaveMPS: an efficient matrix-product-states Python package for simulating non-Markovian waveguide-QED systems,** Sofia Arranz Regidor, Matthew Kozma, Stephen Hughes, Queen's Univ. (Canada)
	14143-31 • **Steering photons through energy and time: spectral and time-bin photon correlations of pulsed systems,** Eduardo Zubizarreta Casalengua, Technische Univ. München (Germany); Santiago Bermúdez Feijóo, Univ. Paderborn (Germany); Kai M. Müller, Technische Univ. München (Germany); Klaus D. Jons, Univ. Paderborn (Germany)
12:50 PM	**Lunch Break**
2:20 PM - 4:00 PM	**SESSION 11: INTEGRATED PHOTONICS** Session Chair: **Dan Dalacu,** National Research Council Canada (Canada)
	14143-32 • Invited Paper **Reconfigurable photon-emitter interfaces enabled by nanomechanics,** Leonardo Midolo, Niels Bohr Institute (Denmark)
	14143-33 • **A policy-based approach for fabrication-tolerant integrated photonics in quantum computing systems,** Liam McRae, Falk Ebert, Philipp Schmidt, Erik Jung, Jan Brandes, Philipp Lohmann, Rongyang Xu, Wolfram H.P. Pernice, Ruprecht-Karls-Univ. Heidelberg (Germany)
	14143-34 • Invited Paper **Towards scalable chiral quantum optics with quantum dots,** Luke R. Wilson, Dominic Hallett, The Univ. of Sheffield (United Kingdom)
	14143-35 • **On-chip integration of Er3+ ensembles in CaWO4 for quantum applications,** Lorenz J. J. Sauerzopf, Fabian Becker, Luis Risinger, Sudip Kc, Catherine Curtin, Anna Selzer, Tim Schneider, Walter Schottky Institut, Technische Univ. München (Germany), Munich Ctr. for Quantum Science and Technology (Germany)
4:00 PM	**Coffee Break**

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4:30 PM - 5:30 PM	**SESSION 12: ENTANGLED PHOTONS** Session Chair: **Nir Rotenberg,** Queen's Univ. (Canada)
	14143-36 • **A fibre-based fully modular entangled-photon source architecture designed for scalable future industrial quantum networks,** Yared Zena, Moritz Moritz Langer, Sai A. Dhurjati, Ahmad Rahimi, Leibniz-Institut für Festkörper- und Werkstoffforschung Dresden (Germany); Riccardo Bassoli, Jürgen Czarske, Caspar Hopfmann, TU Dresden (Germany)
	14143-37 • **Efficient quantum hybrid entanglement with polarization-spatial coupling (PSC) in telecom bands,** Mostafa Youssef, Bora Ung, Ecole de Technologie Supérieure (Canada)
	14143-38 • **Bright tunable-entangled photon pair generation from a weak nanowire quantum dot cavity,** Tarun Patel, Univ. of Waterloo (Canada); Matteo Pennacchietti, Institute for Quantum Computing, Univ. of Waterloo (Canada); Greg Holloway, Quantum-Nano Fabrication and Characterization Facility, Univ. of Waterloo (Canada); Stephen Harrigan, Anthony Drouin, Sayan Gangopadhyay, Institute for Quantum Computing, Univ. of Waterloo (Canada); Philip J. Poole, National Research Council Canada (Canada); Dan Dalacu, National Research Council Canada (Canada), Univ. of Ottawa (Canada); Sasan Grayli, Michael E. Reimer, Institute for Quantum Computing, Univ. of Waterloo (Canada)
TIME	**11 JUNE 2026**
9:20 AM - 10:40 AM	**SESSION 13: QUANTUM DETECTORS AND IMAGING** Session Chair: **Jean-Michel Gérard,** CEA-LETI-DOPT (France)
	14143-39 • Keynote Presentation **Fast gated superconducting nanowire single-photon detectors and its applications,** Sander N. Dorenbos, Single Quantum B.V. (Netherlands)
	14143-40 • **Fourier-domain quantum optical coherence tomography: a window to fast, fully artefact-controlled, fully dispersion-controlled quantum tomographic imaging,** Fransisca Crislane V. de Brito, Nicolaus Copernicus Univ. (Poland)
	14143-41 • **Improving superconducting nanowire single-photon detectors using local helium ion irradiation,** Fabian Wietschorke, Walter Schottky Institut (Germany)
10:40 AM	**Coffee Break**
11:10 AM - 12:40 PM	**SESSION 14: PHOTONIC QUANTUM COMPUTING** Session Chair: **Leonardo Midolo,** Niels Bohr Institute (Denmark)
	14143-42 • Invited Paper **Recent progress toward a scalable Gottesman–Kitaev–Preskill based quantum computing architecture,** Eli Bourassa, Xanadu Quantum Technologies Inc. (Canada)
	14143-43 • **Optical neural networks for ultrafast quantum state tomography** Author(s): Lucas Rantz, Queen's Univ. (Canada); Andreas Maeder, Rachel Grange, Institute for Quantum Electronics, ETH Zurich (Switzerland); Bhavin J. Shastri, Nir Rotenberg, Queen's Univ. (Canada)
	14143-44 • **Photon-subtracted two-mode squeezed thermal states in lossy quantum information processes,** Dylan van Eeden, Marc M. Dignam, Queen's Univ. (Canada)
	14143-45 • **Narrowband counter propagation spontaneous parametric down conversion in a grating-based waveguide cavity,** Saeed Salimian Rizi, Leila Mehrvar, Mulei Wu, Tayyaba Firdous, Saeed Oghbaey, McMaster Univ. (Canada); Wilson Wu, Simon Fraser Univ. (Canada); Ahmad Atieh, Optiwave Systems Inc. (Canada); Thomas Jennewein, Simon Fraser Univ. (Canada); Changqing Xu, McMaster Univ. (Canada)
12:40 PM	**Lunch Break**
2:00 PM - 3:30 PM	**LAB TOURS OF THE UNIVERSITY OF WATERLOO**

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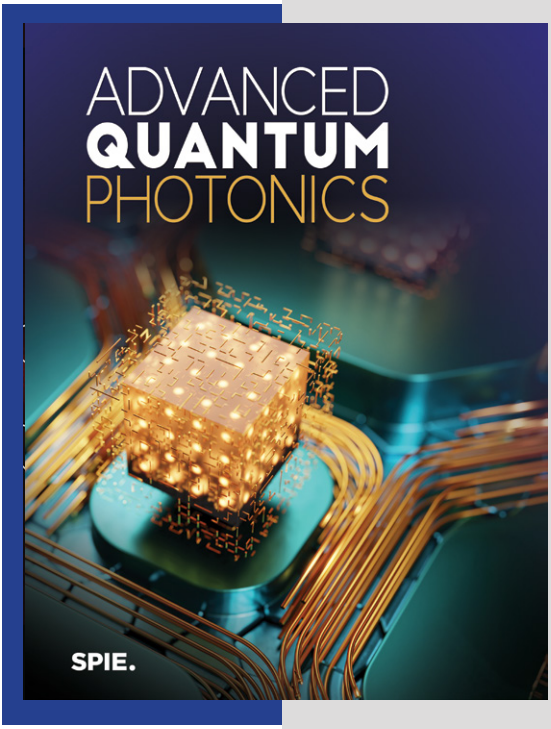

EDITOR-IN-CHIEF

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