**TUESDAY, 4TH SEPTEMBER 2018**

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**IN vs INVITED TALK**

**Session E**

- Haroon Asghar (UCC/Tyndall)
  - "Stabilization of self-mode-locked QDash lasers using simultaneous continuous-wave (CW) optical-injection and optical feedback"

- Prajwal Lakshminayanas (IIT Delhi)
  - "Expansion and phase correlation of a wavelength tunable gain switched optical frequency comb"

- Michael Dillane (UCC/Tyndall)
  - "The Neuromorphic Dynamics Of Quantum Dot Lasers Under Optical Injection"

- Benjamin Lingnau (TU Berlin, Germany)
  - "Ultrafast Gain Recovery and Strong Nonlinear Phase Response of Submonolayer Quantum-Dots"

**Session D1**

- Prof. Jesper Mørk (TU Denmark)
  - "Photonic Crystal Fano lasers and Fano switches"

**Session D2**

- Prof. Isabelle Ledoux-Rak (ENS Paris-Saclay, France)
  - "Optofluidic polymer-based optical microresonators for a rapid, specific, highly sensitive detection of chemical and biochemical species"

- Dr. Elias Giacoumidis (DCU)
  - "Fuzzy-logic based machine learning for high-speed optical networks of the future"

- William Abbo (TCD)
  - "A Comparison of Ti Adhesion Layers for Thermoplasmonic Applications"

- Giuseppe Talli (Tyndall)
  - "Coherent Transmission in Metro-scale PON Using SOAs"

- Martyn Pemble (UCC/Tyndall)
  - "Large Area Colloidal Photonic Crystals For Light Trapping In Flexible Organic Photovoltaic Modules Applied Using A Roll-To-Roll Langmuir-Blodgett Method Applications"

- Niamh Kavanagh (Tyndall)
  - "Injection locking at 2 μm"

- Saroj Kanta Patra (Tyndall/UCC)
  - "Theoretical And Experimental Analysis Of Carrier Localization Effects In GaN/AlGaN QWs"

- Meysam Khanghah (Tyndall)
  - "A new PAM4 Clock and Data Recovery Circuit for Short Reach Optical Interconnects"

- Muhammad Irfan (DIT)
  - "Investigation of temperature response of photonic structures recorded in polymer and nanocomposites for holographic sensors/indicators"

- Derek Cassidy (UCD)
  - "Creation and ethernet test analysis of SWW with the use of 850nm and 1300nm"
WEDNESDAY, 5TH SEPTEMBER 2018

10:05
Dr. Sonia Ramirez (Technology Innovation Portfolio Manager, Johnson & Johnson)
"Title TBC"

10:25
Tea/Coffee Break

11:15
Dr. Pascal Doguet (Co-founder, Synergia Medical, Belgium)
"When neurostimulation and Photonics meet: a short story of an excellent collaboration"

11:35
Hillary Cronin (Operations Manager, Metabolomic Diagnostics Ltd / H2020 Evaulator)
"Title TBC"

12:00
Industry Panel Session

12:45
Lunch

14:05
Invited Talk

Dr. Peter Ossieur (IMEC / Ghent University)
"Design and integration of high-speed electronics for photonic integrated circuits"

14:20
Invited Talk

Prof. Dr. Bernhard Lendl (TU Wien, Austria)
"New analytical sensing schemes for gases and liquids enabled by advanced mid-IR laser technology"

14:35
Session organised by Irish OSA/SPiE Student Chapters

"Professional Development: career paths after the PhD"

Speakers/Panel Members:
- Prof. William Scanlon (CEO, Tyndall)
- Dr. Andrew Brown (SPIE)
- Dr. Jelena Pesic (Nokia Bell Labs, France)
- Dr. Michael McAullife (CIT)
- Dr. Maria Kofyar (CIT)
- Dr. Brian Kelly (Eblana Photonics)

15:05
Invited Talk

Muhammad Billah (KIT, Germany)
"3D Additive Nanofabrication for Photonic Integration and Packaging"

15:20
Invited Talk

Muhammad Oumar Khan (IMEC / Ghent University)
"The MORPHIC Project: Enabling large scale programmable photonic circuits using MEMS"

15:40
Invited Talk

Muhammad Bilbah (KIT, Germany)
"3D Additive Nanofabrication for Photonic Integration and Packaging"

16:00
[Session H1] Student Chapters Session

Prof. Dr. Bernhard Lendl (TU Wien, Austria)
"New analytical sensing schemes for gases and liquids enabled by advanced mid-IR laser technology"

Prof. Dr. Andrew Brown (SPIE)
"Integrated optical sensors to predict meat quality"

Dr. Jelena Pesic (Nokia Bell Labs, France)
"Analysis of nanoparticles in unconstrained microfluidics via multimodal CARS"

Valeriy Maidannyk (Teagasc Moorepark)
"Nanodiamonds as a tracer in spray drying technology of high protein liquids"

Kevin O’Dwyer (Maynooth University)
"Analysis of microparticles in unconstrained microfluidics via multimodal CARS"

Dzianis Saladukha (CIT/Tyndall)
"Germanium band structure under in-plane biaxial tensile strain"

Sergey Alexandrov (NUI Galway)
"Novel method for depth resolved imaging of structural alterations based on optical coherence tomography"

17:00
[Session J1] PIP: Photonics Integration & Packaging

Speakers/Panel Members:
- Prof. William Scanlon (CEO, Tyndall)
- Dr. Andrew Brown (SPIE)
- Dr. Jelena Pesic (Nokia Bell Labs, France)
- Dr. Michael McAullife (CIT)
- Dr. Maria Kofyar (CIT)
- Dr. Brian Kelly (Eblana Photonics)

17:15
[Session J2] NPT: Novel Photonic Technologies

Speakers/Panel Members:
- Prof. Dr. Andrew Brown (SPIE)
- Dr. Jelena Pesic (Nokia Bell Labs, France)
- Dr. Michael McAullife (CIT)
- Dr. Maria Kofyar (CIT)
- Dr. Brian Kelly (Eblana Photonics)

17:30
Conference Close (Chairs)
**MONDAY, 3RD SEPTEMBER 2018 (17:15 – 18:30, AVONDU SUITE)**

**P01** Ananthachar, Adarsh (CIT/Manipal, India): Optical characterisation of photonic crystal cavities by resonant scattering

**P02** Arangath, Anand (NUIG): Measurement of the SNR and sensitivity vs reference lens position for multiple reference optical coherence tomography

**P03** Burton, Sinead (Maynooth): Signal to noise ratio of Raman spectra of biological samples

**P04** Brennan, Grace (UL): Magnetic Field-Directed Assembly of Plasmonic, Superparamagnetic Nanoparticles for Enhanced Cancer Therapy

**P05** Cassidy, Derek (UCD): Optical characterization of photo-polymer material using 532nm and investigation into future use at 850nm and 1300nm

**P06** Chullipalli Valliyal, Krishnakumar (CIT): Lab prototype of portable deep UV instrument for pharmaceutical cleaning validation

**P07** Das, Nandan (NUIG): Development of spectroscopic polarization sensitive optical coherence tomography to quantify sub-micron scale tissue anisotropy

**P08** Devarapu, Chinna (CIT/Tyndall): Detection of pathogens in water using a Raman probe

**P09** Dey, Rajib (NUIG): Design, optimization and characterization of the sample arm of the high resolution OCT system

**P10** Duignan, Christopher (UCD): High Speed High Resolution Digital Image Motion Estimation

**P11** Hamm, James (Maynooth): Noisy computation in optical neural networks with modern features

**P12** Mahzur, Mohsin (UCC): A Flexure Motion Stage for Light Beam Control

**P13** Harikrishnan, Surya (Manipal, India): Application of laser spectroscopy for archaeological analysis

**P14** James, Soorya (NUIG): Characterization of gold nanostars and utilizing it as a contrast agent for tracking stem cell therapy using Multispectral Optoacoustic Tomography (MSOT)

**P15** Kho, Kiang Wei (DCU): Membrane-Therapeutic-Molecule Interactions Studied Using Engineered Plasmonic Fields

**P16** Lal, Cerine (NUIG): Nanosensitive optical coherence tomography to probe structural changes within the cornea

**P17** Lehtimäki, Taina (Maynooth): Using traditional glass plate holograms to study visual perception of future digital holographic displays

**P18** Liu, Dongyue (Maynooth): Investigation of wavenumber calibration for Raman spectroscopy using a polymer standard

**P19** Lu, Huilui (Tyndall): Simple and convenient determination of optical properties of tissue-like phantoms using diffuse reflectance and transmittance spectroscopy

**P20** Markham, Sarah (UL): Optical Characterisation of MIR Imaging Fiber

**P21** Martin, Eamonn (DCU): Phase correlated gain switched laser based dual comb photonic sensor interrogator

**P22** Mavrkakis, Kostas (Heraklion, Greece): Development of a multiparametric table-free imaging system for the early diagnosis of neurodegenerative disorders through the ocular cavity

**P23** McAuley, Ryan (NUIG): Background Subtraction vs Highpass Filtering in Phase Sensitive Optical Coherence Tomography

**P24** Munivenkatappa, Uday (CIT/Tyndall): Grey soliton laser

**P25** Murugan, Madhumitha (CIT/Tyndall): Real-time detection of nitrates in water using compact Raman probe based spectroscopy system

**P26** Nanadath Shibu, Sini (CIT/Tyndall): Nanodiamonds enhanced Raman-microfluidics system for the characterization of milk proteins

**P27** Nanadath Shibu, Sini (CIT/Tyndall): Influence of nitrogen implantation on optical emission dynamics in CVD diamonds

**P28** Nogueira, Marcelo (Tyndall/UCD): Wide-band diffuse reflectance spectroscopy for determination of optical properties and chromophore concentrations of mice highly vascularized organs

**P29** Nogueira, Marcelo (Tyndall/UCD): Teaching and learning in biophotonics: how to cross the bridge between educators and students?

**P30** Pacheco, Andreia (Tyndall): Near Infrared Light Propagation Modelling of Infant Thorax with Different Light Source – Detector Configurations

**P31** Pacheco, Andreia (Tyndall): Neonate chest phantom with realistic geometry and tissue optical properties

**P32** Pitkäaho, Toni (Maynooth): Detecting the presence of a transparent object in the field of view in off-axis digital holograms

**P33** Pitkäaho, Toni (Maynooth): Digital hologram classification with hand-crafted feature augmented convolutional neural network

**P34** Reilly, Kevin (UCD): Terahertz Imaging & Applications

**P35** Streeter, Samuel (Dartmouth, USA): Exploring texture analysis methods for high spatial frequency structured light imagery of tumour tissue

**P36** Yang, Lin (PTB, Berlin, Germany): Spatially-enhanced data analysis method for time-resolved NIRS to determine tissue optical properties

**P37** Yu, Qin (Maynooth): Calculating the diffraction pattern at the focal point of a lens

**P38** Zhang, Lingfei (Maynooth): Security Analysis Of The First Phase Mask In Double Random Phase Encryption

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**Student Poster Prizes Sponsored by:**

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**POSTER SESSION I**
P01 Alexander, Justin (Tyndall/UCC): Integrated dual optical frequency comb source
P02 Arkani, Reza (Tyndall/UCC): Theory And Design Of Metamorphic Quantum Well Light Emitting Diodes Operating At Mid-Infrared Wavelengths
P03 Arpaçay, Pinar (TCD): Ultrafast Charge Transfer Interaction Between Nanocarbon Materials and Porphyrins
P04 Brandonisio, Nicola (Tyndall): Analysis of burst-mode forward error correction in passive optical networks with EDFA optical transients
P05 Browne, Jack (Tyndall): Comparison of the Electrical and Optical Characteristics of Bulk Junction and Quantum Well Mesa Red LEDs
P06 Canas-Estrada, Natalia (Tyndall): Estimating Y-branch splitting ratios of IQ modulators
P07 Das, Sarita (UCC/Tyndall): Impact Of Band Mixing On Tunneling Currents In Dilute Bismide Avalanche Photodiodes
P08 Dowdall, Thomas (UCC): Fast and Robust Quantum Control Based on Pauli Blocking
P09 Dowdall, Thomas (UCC): Trapping and cooling particles using a moving atom diode and an atomic mirror
P10 Dubois, Fabien (Tyndall/UCC): A Multimode Approach To Modelling Mutually Coupled Lasers in Photonic Integrated Circuits
P11 Duggan, Shane (UCC/Tyndall): InP-AlGaInAs Waveguides Monolithically Integrated by Vertical Coupling
P12 Dunne, Michael (Tyndall/UCC): Theory of the electronic structure of direct-gap Ge_{1-x}C_{x}/Sn, group-IV alloys
P13 Gandan, Shumithira (CIT/Tyndall): Optical properties of Type-II GaSb/GaAs quantum rings
P14 Gleeson, Matthew (UL): Nonlinear Optical Properties Of Glycine Microcrystal Polymorphs
P16 Izadi, Ida (Tyndall/UCC): Optical Polarization properties of InGaAs/GaAs LED structures with slanted sidewalls
P17 Kaur, Anmeetdeep (Tyndall): Analogue Pre-filtering Using WSS for Spectral Efficient Transmitters
P18 Keshri, Sanjay (DIT): Stacked Holographic Optical Elements for a White LED
P19 Kotlyar, Margarita (Image Processing Systems Institute, Russia): Photonic component for fast rotation of a two-lobe laser beam

P20 Lin, Yi (DCU): SOA-based wavelength conversion of a coherent optical 64-QAM signal
P21 Mogan, John (TCD): Optimizing precursor composition for high performing perovskite solar cells under ambient conditions
P22 Malallah, Ra’ed (UCD): Self-propagating net-waveguides in a a dry AA/PVA photopolymer media
P24 Mckenna, Robert (TCD): Optimisation Of High Order Surface Gratings For Semiconductor Lasers
P25 Mura, Enrica (Tyndall): Morphology and optical emission properties of novel InP and InP/InGaAs self-assembled nanostructures
P26 Murray, Brian (Tyndall): Bias and doping optimisation of lumped silicon-photonic PAM4/PAM8 Mach-Zehnder modulators
P27 Pampili, Pietro (Tyndall/UCC): Optimization of Silicon-doped Aluminium Gallium Nitride materials for UV-LED Applications
P28 Passoni, Marco (U. Pavia, Italy): Vertical integration of SOI and III-V semiconductors by use of of grating-couplers
P29 Pembble, Martyn (UCC/Tyndall): Large Area Flexible Colloidal Photonic Crystal Film Stickers For Light Trapping Applications
P30 Perrott, Alison (UCC/Tyndall): Coupled Lasers on a Photonic Integrated Circuit
P31 Russell, Eoin (Tyndall): Development of Thulium Doped Fibre Amplifier for the 2um Waveband
P32 Selfkar, Masoud (Tyndall/UCC): Two mutually identical delay-coupled semiconductor lasers in photonic integrated circuits
P33 Sheehan, Robert (CIT/Tyndall): Data Transmission Using Silicon Photonic Integrated Circuit Comprising DFB Laser, EAM And SOA
P34 Singaravelu, Praveen (CIT): A CMOS compatible 3D photonic platform based on vertical integration using spot size converters
P35 Verbishchuk, Yuliya (Tyndall/UCC): Incorporating software defined controls for legacy equipment in optical networks
P36 Whitty, Chris (UCC): Shortcuts to Adiabaticity for Transport Quantum Logic Gates
P37 Yang, Hua (Tyndall): High speed electro-absorption modulator at 1550nm
P38 Zagaglia, Luca (Tyndall): Comparing Laser Hybrid-Integration Direct Fibre-Coupling on Si-PICs

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## EXHIBITORS

The following companies will have exhibition booths at the conference:

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