



Optical Sensing Technologies Online Webinar

Our vision is to establish a platform where people from different academic backgrounds can exchange knowledge and experiences to grow both professionally and personally. We want to create a positive and dynamic environment that promotes creativity, transferable skills and teamwork.

Our latest online webinar will be composed of four talks from **Prof. Robert Hadfield, Dr. Adam Polak, Michele Lacarenza, and a representative from M Squared Lasers** who will introduce their cutting-edge research and development in the field of optical sensing with consideration of future challenges to be addressed. There will be ample time for questions and audience discussion following each presentation.

Date & Time: Tuesday 26th May 2020
15:00 – 17:00

Venue: Microsoft Teams
Join here: [Join Microsoft Teams Meeting](#)

Professor Robert Hadfield, *Professor of Photonics, University of Glasgow*

Prof. Hadfield is leader of the Quantum Sensors group at the University of Glasgow and a co-investigator of QUANTIC, the UK Quantum Technology hub in imaging. He was awarded the 2012 J&E Hall Gold Medal of the Institute of Refrigeration, the 2013 Brian Pippard Prize of the Institute of Physics Superconductivity Group and the 2019 James Joule Medal of the Institute of Physics. He is a Fellow of the Institute of Physics, Institution of Engineering and Technology, Optical Society of America and Royal Society of Edinburgh.



Dr. Adam Polak, *Researcher, Fraunhofer Centre for Applied Photonics*

Dr. Adam Polak returned to academia after spending his early career working as an engineer for Phillips Lighting. He earned his PhD from the University of Strathclyde in 2017 for his work on laser-based infrared spectroscopy with enhanced signal processing. He currently works as a researcher for the Fraunhofer Centre for Applied Photonics and continues to explore the frontiers of photonics and signal processing.

Michele Lacarenza, *PhD Candidate, Politecnico di Milano*

Michele Lacarenza received his Master's Degree in Nano-optics and Photonics from Politecnico di Milano in 2018 and is now pursuing a PhD at the same institute. His doctoral research involves hardware and software development for compact, wearable Time-Domain Near Infrared Spectroscopy (TD-NIRS) systems with applications in brain and tissue oxygenation monitoring. He has also co-founded an online scientific journal titled 'Fisici senza palestra' with the goal of making science more accessible to everyone.



M Squared Lasers, *Glasgow, Scotland*

M Squared Lasers is a leading developer of photonics and quantum technology, based in Glasgow, and founded by Dr. Graeme Malcolm and Dr. Gareth Maker in 2005. Their light-based products are put to use in a diverse array of sectors including advanced manufacturing, oil and gas research, space technology and the medical sector – where cross-sector partnerships have led to breakthroughs in areas as diverse as dementia research, cancer diagnosis and whiskey maturation.

To join the seminar, use the following link on 26 May 2020 at 15:00 –

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