SCOPE
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engineering

SCOPE Career Evening: 25th October 2016 (6:30pm, GH510) – Speaker Biographies

Dr. Aline Dinkelaker

Aline is part of the *Quantum Sensors and Ultracold Atoms* team within the Optical Metrology group (Head: Prof. Peters, Ph.D.) at Humboldt-Universität zu Berlin in Germany, and a guest researcher at the Ferdinand-Braun-Institut, Leibniz-Institut für Höchstfrequenztechnik.

She received her PhD in physics in 2013 from the University of Strathclyde in Glasgow, Scotland, where she worked on a magnetic ring trap for cold atoms and atom interferometry. Her current research at Humboldt-Universität zu Berlin is supported by the German Aerospace Agency (DLR) and focuses on laser systems for atomic physics experiments on microgravity platforms and in space, e.g. in the ZARM drop tower in Bremen and on a TEXUS research rocket. She is involved in several projects at different levels, from integration of the lasers over system assembly and testing to experimental control during flight.

Throughout her PhD, Aline was a member of the SCOPE OSA student chapter committee, acting as secretary for two years and as president for one year. She now is one of the first round of OSA ambassadors in 2016.

Dr. James Bain

Dr James Bain is the Innovation Programme Manager at M Squared Lasers in Glasgow. He gained his first degree in Physics from the University of St Andrews and a Masters in Electrical and Computer Engineering from the Georgia Institute of Technology in Atlanta before undertaking his industrial doctorate project with Rolls-Royce plc and the University of Strathclyde, which investigated laser-based sensors for aeroengine diagnostics. Since joining the Innovation Team at M Squared Lasers he has had technical, strategic and project management related oversight of an extensive portfolio of collaborative research and development projects.

Dr. Loyd McKnight

Loyd holds a researcher position at the Fraunhofer Centre for Applied Photonics, Glasgow, where he works on the development of a range of laser and laser-related technologies. He leads a number of research projects with industrial and academic partners funded directly by industry, nationally and by the EU. Loyd received his undergraduate engineering degree from St. Andrews University in 2008 and his PhD in physics from University of Strathclyde in 2012.