

Precision Measurement

This multi-disciplinary one-day conference will cover all aspects of precision measurement across all physical domains, highlighting the fundamental commonality of techniques and challenges in precision measurement

Programme

08.30-09.00	Registration & refreshments	
09.00-09.10	Welcome Address	Prof Andy Harvey, Director of CDT Integrative Sensing & Measurement & Chair of Experimental Physics, University of Glasgow
09.10-09.30	University Presentation:	<i>Precision Interferometers</i> Dr. Henry Ward, School of Physics & Astronomy, University of Glasgow
09.30-09.50	Keynote #1:	<i>Precision Measurement in Astronomy</i> Colin Cunningham, Royal Observatory, Edinburgh
09.50-10.10	University Presentation:	<i>TBC</i> Dr. Paul Dalgarno, Institute of Biological Chemistry, Biophysics & Bioengineering, Heriott Watt University
10.10-10.30	Refreshments & Networking	
10.30-11.15	Breakout Session #1	
11.15-11.35	University Presentation:	<i>Feature Detection and Classification in Noisy Data</i> Dr. Ik Siong Heng, School of Physics & Astronomy, University of Glasgow
11.35-11.55	University presentation:	<i>3D Microscopy</i> Dr. Guillem Carles, School of Physics & Astronomy, University of Glasgow
11.55-12.15	University Presentation:	<i>Quantitative Thermal Scanning Microscopy</i> Prof. Jonathan Weaver, School of Engineering, University of Glasgow
12.15-12.35	University Presentation:	<i>Developing a Field Prototype Precision Gravimeter</i> Prof. Giles Hammond, School of Physics & Astronomy, University of Glasgow
12.35-13.50	Lunch & Networking	
13.50-14.15	Keynote #2:	<i>Using Precision Frequency Metrology to Understand Sources of Decoherence in Solid State Quantum Circuits</i> Dr. Tobias Lindstrom, National Physical Laboratory
14.15-14.35	University Presentation:	<i>TBC</i> Dr. Robert Henderson, CMOS Sensors & Systems Group, University of Edinburgh
14.35-14.55	University Presentation:	<i>Picosecond Timing with the Radio Frequency Photomultiplier</i> Dr. John Annand, School of Physics & Astronomy, University of Glasgow
14.55-15.15		<i>TBC</i> <i>Ian Reid, CENSIS, CEO</i>

15.15-15.45	Refreshments & Networking	
15.45-16.05	University Presentation:	<i>Retrodiction: a Bayesian Approach to Poisson Noise and Precision in Image Analysis</i> Dr. Matthias Sonneleiter, School of Physics & Astronomy, University of Glasgow
16.05-16.25	University Presentation:	<i>High Resolution Mass Spectrometry: A Tool for Intra-Molecular Isotope Distribution Measurements</i> Dr. Matthieu Clog, SUERC
16.25-16.50	University Presentation:	<i>TBC</i> Dr. Donald MacLaren, School of Physics & Astronomy, University of Glasgow
16.50-17.00	Closing Remarks	Prof Andy Harvey, Director of CDT Integrative Sensing & Measurement & Chair of Experimental Physics, University of Glasgow