

# QAMSS SRI Advanced Technology Lectures: *Easter 2023*

## Cambridge Graphene Centre Seminar Room-4 pm:

**21<sup>st</sup> April 2023** Professor Jianxin Zou, Shanghai Jiao Tong University, China  
Mg-Based Nano-Heterostructures For Hydrogen Storage And Transportation

**28<sup>th</sup> April 2023** Professor Nicola Lattanzi, IMT School for Advanced Studies Lucca, Italy  
Dynamic Capabilities And Artificial Intelligence To Manage Bias Risks in Business Modelling

**05<sup>th</sup> May 2023** Dr Taofiq K. Paraiso, Toshiba Europe, Cambridge, UK  
Advanced Laser Technology And Chip-Based Quantum Communications

**12<sup>th</sup> May 2023** Professor Christopher Ford, University of Cambridge, UK  
Nanoscale Electron Channels

**26<sup>th</sup> May 2023** Professor Rachel Oliver, University of Cambridge, UK  
New Possibilities In Nitride Photonics Exploiting Porosity

**02<sup>nd</sup> June 2023** Professor Mario Lanza, King Abdullah University of Science and Technology, Saudi Arabia  
Hybrid Layered Materials-CMOS Microchips For Memristive Applications

**09<sup>th</sup> June 2023** Dr Margherita Mazzerà, Heriot-Watt University, Scotland  
Pioneering platform for integrated quantum memories

**16<sup>th</sup> June 2023** Dr Francesco Matteucci, European Innovation Council, Belgium  
Innovation Journey Of Advanced Materials For Energy

**23<sup>rd</sup> June 2023** Dr Luca Sapienza, University of Cambridge, UK  
Integrated quantum photonic devices to control light emission and propagation on a chip

**30<sup>th</sup> June 2023** Mandar Deshmukh, Tata Institute of Fundamental Research, India  
Quantum noise limited amplifier using graphene Josephson junctions



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**07<sup>th</sup> July 2023** Sieglinde Pfaendler, IBM Deutschland Research & Development GmbH, Germany  
IBM Quantum: Technology roadmap and the importance of an open source ecosystem

**14<sup>th</sup> July 2023** Eric Miska, Gurdon Institute - University of Cambridge, UK

**21<sup>st</sup> July 2023** TBC

**28<sup>th</sup> July 2023** Yap Yoke Khin Michigan Technological University, USA

