



The Chinese University of Hong Kong



## Department of Biomedical Engineering

Time: 1:30pm, 21 June 2023 (Wednesday)

Venue: ERB1118, William M.W. Mong Engineering Building

Zoom Link <https://cuhk.zoom.us/j/91515860409?pwd=K21EcHILTct5bkVUUKNKcnJOVnNPZz09>

Meeting ID: 915 1586 0409 Passcode: 086473

# Carbon Nano-Material Photonics for Fibre Sensor and Laser Applications



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### **Abstract**

Carbon nano-materials have attracted substantial research interests in photonics device applications due to their desirable optical absorption properties in infrared range and compatibility to silica fibres or waveguides. In this seminar, we will review our recent work on photonics devices integrated with carbon nano-materials including carbon nanotubes, graphene, and other advanced two-dimensional materials, with discussion on their applications in fibre-based sensors and ultra-fast fibre lasers.

### **Biography**

Dr Kin Kee Chow is a Senior Lecturer a Programme Leader in Department of Engineering, Manchester Metropolitan University, United Kingdom. He is also affiliated with Advanced Materials and Surface Engineering (AMSE) Research Centre. Dr Chow read Electronic Engineering and received his BEng (Hon), MPhil, and PhD from The Chinese University of Hong Kong. Prior to his career in the UK, Dr Chow was a Research Fellow and a Faculty Member of The University of Tokyo, Japan, and Nanyang Technological University, Singapore. Dr Chow specialises in optical fibre sensing and laser technologies utilizing advanced materials and structures. He is a Fellow of Higher Education Academy (FHEA) UK, a Senior Member of IEEE, and a Member of IET. He has been serving the editorial boards of Nature Scientific Reports, IET Electronics Letters, and IEEE Access. Recently, Dr Chow has been awarded his Royal Society Kan Tong Po Fellowship and he is currently visiting Department of Biomedical Engineering, CUHK.

\*\*\* ALL ARE WELCOME \*\*\*

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