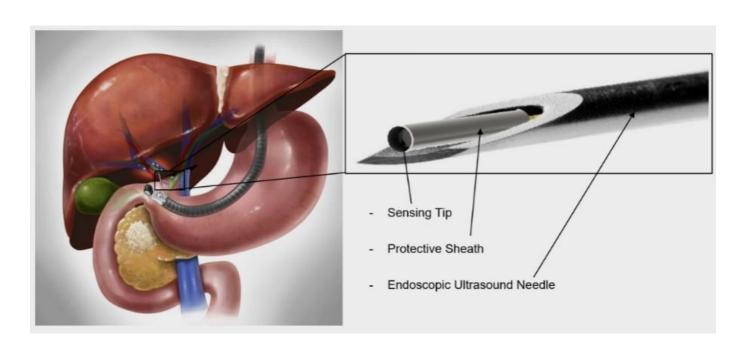
Spring 2024

Optics & Photonics Group Lunchtime Seminar Series

University of Nottingham

Optical Fibre Sensors for Endoscopic Ultrasound

Adam Garon
University of Nottingham



13:30 Wednesday 14 February 2024
Pope Building - C16







Adam Garon

Optical Fibre Sensors for Endoscopic Ultrasound

Pancreatic Cancer and portal hypertension are amongst many gastrointestinal disorders that are often late identified, and potentially life-threatening. This work details the development of two optical fibre sensors for endoscopic ultrasound (EUS) applications, aimed at enhancing GI diagnostics for the disorders mentioned. A fibre-tip localised surface plasmon resonance (LSPR) biosensor is designed for mucin detection in pancreatic cysts to improve cyst stratification for assessment of cancinogenesis risk. A Fabry-Perot interferometer-based pressure sensor is customised for use with an EUS needle, enabling direct measurement of portal venous pressure.

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All are welcome





