

MQ Photonics Research Centre Webinars

When: Wednesday 14 October 2020 at 2 PM

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Dr Matthew R. Majewski

Title: Dysprosium lasers: Expanding mid-infrared fibre technology

Abstract: With growing interest in the mid-infrared spectral region, dysprosium has recently been revisited for efficient high-performance infrared source development. Despite historically receiving less attention than other rare earth ions, in recent years lasers utilizing the dysprosium ion as the laser material have set record mid-infrared performance. This talk will present an overview of the dysprosium fibre laser milestones achieved of late as well as the present state of my research towards continued advancement of this technology

Bio: Matthew R. Majewski received a M.S. from Northeastern University in 2012. Prior to joining Macquarie University in 2014 he was a member of the high power laser development team at Silex Systems (Australia). He completed his Ph.D. thesis on dysprosium mid-infrared fibre lasers in 2017 and is currently a research fellow with the Mid-infrared Fibre Sources Group. His current research focus is the development of novel high power and ultrafast fibre laser sources.