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Hollow core Fibres: Sensing, Machining and communicating with air-guided light

The latest generation of hollow core fibres outperforms conventional all-solid fibre technology in many aspects. We will review the technology, its latest records and applications, and forecast what might be possible in a few years' time.

Biography

Professor Francesco Poletti heads the Hollow Core Fibre group at the Optoelectronics Research Centre (University of Southampton), an interdisciplinary team developing ground-breaking air-guiding fibres. For the past decade the team has been at the forefront in pushing the research boundaries of optical fibre technologies. Professor Poletti holds an ERC consolidator grant and is a co-founder of the startup Lumenity, which commercialises air-guiding optical fibre cables for data communications.

KEYNOTE SPEAKER