



Contribution ID: 720

Type: **Talk (preferred)**

Design of scintillator-based dosimeters using femtosecond laser processed polymer optical fibers for radiation measurement

Tuesday 13 December 2022 17:00 (15 minutes)

We present simple and robust designs for optical fiber radiation sensors for dosimetry applications, by utilizing femtosecond laser micromachining. Furthermore, we examine the implementation of our technique with plastic scintillator (BCF-10) for medical radiotherapy dosimetry.

Primary author: IOANNOU, Andreas (Cyprus University of Technology)

Co-authors: Mr POSPORI, Andreas (Cyprus University of Technology); Mrs CHRISTOFI, Aristi (Cyprus University of Technology); Mr JACKSON, David A. (University of Kent); Mr SULLIVAN, Francis J. (National University of Ireland); Prof. KALLI, Kyriacos (Cyprus University of Technology); Mr WOULFE, Peter (Galway Clinic); Dr O'KEEFFE, Sinead (University of Limerick); Ms ZARVOU, Sotia (Cyprus University of Technology); Dr KAM, Wern (University of Limerick)

Presenter: IOANNOU, Andreas (Cyprus University of Technology)

Session Classification: 7th International Workshop on Speciality Optical Fibres

Track Classification: WSOF: WSOF: Fibre sensors