

Session Title: [Th-X] New Fibers and Subsystems for Photonic Sensing

Date and Time: April 27, 2017 (Thursday), 15:30-17:35

Session Chairs: Marcos A. R. Franco (Instituto de Estudos Avançados, Brazil)
Koji Omichi (Fujikura Ltd., Japan)

[Th-X1] 15:30-15:55 (Paper No. 10323-561)

[Invited] Whispering Gallery Resonators for Optical Sensing

Ramgopal Madugani, Sho Kasumie, Yong Yang, Jonathan Ward, Fuchuan Lei, and Síle Nic Chormaic
Okinawa Institute of Science and Technology Graduate University, Japan

[Th-X2] 15:55-16:20 (Paper No. 10323-568)

[Invited] Novel Optical Fibers for Distributed Sensor Applications

Ming-Jun Li, Shenping Li, and Jeffery S. Stone
Corning Research and Development Corporation, USA

[Th-X3] 16:20-16:45 (Paper No. 10323-571)

[Invited] Plastic Optical Fiber Fuse and its Impact on Sensing Applications

Yosuke Mizuno¹, Heeyoung Lee¹, Neisei Hayashi², Kentaro Nakamura¹, and Shin-ichi Todoroki³
¹*Tokyo Institute of Technology, Japan*, ²*The University of Tokyo, Japan*, ³*National Institute for Materials Science, Japan*

[Th-X4] 16:45-16:57 (Paper No. 10323-165)

Towards a New Generation of Fibre-Optic Chemical Sensors based on Spider Silk Threads

Kenny Hey Tow¹, Desmond M. Chow¹, Fritz Vollrath², Isabelle Dicaire^{3,5}, Tom Gheysens^{4,5}, and Luc Th evenaz¹
¹*EPFL Swiss Federal Institute of Technology, Switzerland*, ²*University of Oxford, UK*, ³*CCTT Optech, Canada*, ⁴*European Space Agency (ESA), Netherlands*

[Th-X5] 16:57-17:09 (Paper No. 10323-434)

Interrogation System with Auto-Calibration for Fiber Bragg Grating Sensors Using VCSEL Based Optical Frequency Comb Generators

D.A. Poiana, J.A. Garcia-Souto, J.E. Posada-Román, and P. Acedo
Universidad Carlos III de Madrid, Spain

[Th-X6] 17:09-17:34 (Paper No. 10323-563)

[Invited] Large Scale Fiber Optic Based Monitoring System for ITER Superconducting Magnets

Luís Ferreira
HBM FiberSensing, Portugal