

OPTICAL SENSORS CLUSTER

WEBINAR SERIES



MARCH 2025

Prof. Cicero Martelli

Department of Electronics, Federal University of Technology-PR, Brazil

Distributed Fiber Optic Sensors (DFOS) – principles, challenges and applications



APRIL 2025

Prof. Jyotsna Sharma

Associate Professor in Louisiana State University and Program Director at DOE's ARPA-E, USA

Fiber optic sensor applications in the oil and gas industry



MAY 2025

Mr. Fred Mookua, Physicist

National Institute for optics and lasers (NIOL), Multimedia University of Kenya, Kenya

Ultrasensitive Laser Absorption Spectroscopy for Trace Gas Detection



JUNE 2025

Dr. Rui Min

Beijing Normal University, China

Portable optical fiber sensors integrated with smartphone for healthcare monitoring applications



JULY 2025

Prof. Santosh Kumar

Professor and Advisor – R&D at Koneru Lakshmaiah Education Foundation, India

Waveflex Biosensors for Healthcare Applications



AUGUST 2025

Dr. Mamadou Diop

Lawson Health Research Institute, Western University

Quantum Sensor for Noninvasive Monitoring of Cerebral Oxygen Metabolism



SEPTEMBER 2025

Prof. Anna G. Mignani

CNR Istituto di Fisica Applicata "Nello Carrara", Italy

Compact Optical Spectroscopy: The Future of Food Analytics in Your Pocket



OCTOBER 2025

Dr. Francesco Chiavaioli

CNR Istituto di Fisica Applicata "Nello Carrara", Italy

Towards a Uniform Metrological Assessment of the Performance of Optical Sensors with some Examples in Real-Life Contexts



NOVEMBER 2025

Prof. Carlos Marques

CICECO & Physics Department, University of Aveiro, Portugal

Advancing Optical Sensors: from Robotics to Biomedical Applications – Latest research



DECEMBER 2025

Prof. Minghong Yang

National Engineering Research Center for Fiber Optic sensing Technologies and Networks Wuhan University of Technology, China

Draw-Tower Fiber Bragg Grating Array and its Industrial Applications



JANUARY 2026

Dr. José J. Imas González

Public University of Navarra, IEEC, Spain

Optical Sensors based on Lossy Mode Resonances



FEBRUARY 2026

Dr. Mildred A. Airo

Maseno University, School of Physical and Biological Sciences, Chemistry Department

Optical Chemical Sensors design and applications