

ILLUMINATING EDUCATION

INTERNATIONAL DAY OF LIGHT 16 MAY 2018

INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS ICTP, TRIESTE ITALY

REGISTRATION 09:00-10:00

OPENING SESSION 10:00-11:10

WELCOME ADDRESSES 10:00-10:15

Fernando Quevedo

Director of ICTP

Roberta Ramponi

President of the International Commission for Optics (ICO)

OVERVIEW 10:15-10:25

John Dudley from the International Day of Light Steering Committee, will deliver a short introduction to the general **Aims of the International Day of Light** and the particular objectives of the different sessions of the Illuminating Education conference.

OPTICA FANTASTICA 10:25-11:20

Sir Michael Berry, University of Bristol and ICTP Distinguished Lecturer will deliver a keynote presentation entitled **Optica Fantastica**, structured around a series of images to illuminate the physics of light, a topic ideally suited to engage interest and promote science outreach to the public of all ages.

OUTREACH & COMMUNICATION 11:20-12:10

Stephen Pompea, National Optical Astronomy Observatory, will discuss **Astronomy Public Engagement**, based on the many activities originating during the International Year of Astronomy 2009 and the legacy actions taking place during the International Astronomical Union's 100th anniversary in 2019.

Rachel Won, International Editor of Nature Photonics, will present a talk on a **Career in Science Communications**, discussing her experience as scientific journal editor and the general prospects for getting into science publishing.

LUNCH & NETWORKING 12:10-13:45

SCIENCE & DEVELOPMENT SESSION 13:45-15:30

LIGHTING AND THE FUTURE 13:45-14:45

This session will consist of a series of presentations to be followed by an interactive discussion with the audience. Amongst the topics to be covered will be photonics for sustainable development and education initiatives in the public and private sector. Moderated by **Sandro Scandolo** from ICTP, other participants will include **Krisinda Plenkovich**, SPIE; **Brian Liebel**, Illuminating Engineering Society; **David Sampson**, University of Surrey.

DEVELOPMENT CHALLENGES 14:45-15:30

Cather Simpson, University of Auckland, will present a Keynote Talk on **Using Physics to Feed the Planet**, explaining how a greater understanding of light is changing the way we grow food.

DISAPPEARING IN THE DARK 15:30-15:40

Introduced by **Jason Socrates Bardi** from the American Institute of Physics (AIP) and **John Taylor** from The Optical Society (OSA), we preview a new documentary premiering in 2019 on an art installation in Washington, D.C. that opened on the first International Day of Light.

CAREER CHALLENGES 15:40-16:30

Jess Wade, Imperial College London will discuss her work on challenging stereotypes, the Institute of Physics efforts to improve gender balance in physics classrooms, and to celebrate the theme of the International Day of Light, she will also describe her research on next-generation OLEDs.

Amna Abdalla Mohammed Khalid, vice-chair of the Next Einstein forum (NEF) Executive Committee, will deliver a presentation on the **Aims and Objectives of the NEF** community of scientists in creating a unified African Scientific identity to enable the robust scientific transformation of Africa through fostering an environment for innovative scientific discovery.

COFFEE & NETWORKING 16:30 – 17:00

STUDENTS & SOCIETIES SESSION 17:00-18:15

This session will see presentations by **student representatives from international networks** of EPS, IEEE, OSA, SPIE, IAPS. Presentations will cover broad topics, including activities in science outreach and how students see their careers in science developing in the future. Participants include: **Ezabo Baron** (IEEE PS), **Roberta Caruso** (EPS), **Xiang Dino Dai** (OSA), **Perla Marlene Viera González** (SPIE), **Duarte Graça** (IAPS), **Kithinji Muriungi** (IEEE PS), **Artemis Tsimperi** (IAPS).

CLOSING REMARKS 18:15-18:20

Joseph Niemela

ICTP & International Day of Light Steering Committee

RECEPTION & NETWORKING 18:30-21:00

ABOUT THE INTERNATIONAL DAY OF LIGHT

The International Day of Light is an annual observance of UNESCO promoting the importance of light and light-based technologies in science, education and culture. It is managed by an international multi-partner Steering Committee and the UNESCO International Basic Sciences Programme.

Steering Committee

