

ILLUMINATING EDUCATION

INTERNATIONAL DAY OF LIGHT 16 MAY 2019

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**.

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 11:20-12:30

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 talk on a **Career in Science Communications**, discussing her experience as scientific journal editor and the general prospects for getting into science publishing.

Federica Beduini, Outreach and Science Communicator at ICFO, will talk on **Participatory Science** and the Big Bell Test, a worldwide citizen science experiment that led to over 100,000 people participating in state-of-the-art tests of quantum physics.

LUNCH & NETWORKING 12:30-14:00

SCIENCE & DEVELOPMENT SESSION 14:00-16:15

LIGHTING AND THE FUTURE 14:00-15:10

This session will consist of a series of short presentations addressing diverse challenges for science and education. Amongst the topics to be covered will be photonics for sustainable development, the need for improved awareness of lighting quality, and education and sustainability initiatives in the public and private sector. Participants include **Sandro Scandolo** from ICTP, **Krisinda Plenkovich**, SPIE; **Brian Liebel**, Illuminating Engineering Society, **John O'Hagan**, CIE, **David Sampson**, University of Surrey, **Prajna Khanna**, Signify Foundation.

DEVELOPMENT CHALLENGES 15:10-15:55

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 15:55-16:05

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.

IMAGES FROM THE ROOF OF THE WORLD 16:05-16:15

Saurabh Narang, an award-winning photographer from India will describe his photography in the Himalayan villages of Spiti Valley and the first International Day of Light celebration at the highest village in the world

COFFEE & NETWORKING 16:15 – 16:45

CAREER CHALLENGES 16:45-17:35

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.

STUDENTS & SOCIETIES SESSION 17:35-18:50

This session will see presentations by **student representatives from international networks** of EPS, IEEE, OSA, SPIE, IAPS. Presentations will cover broad topics, including science outreach and how students see their careers 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 18:50-18:55

Joseph Niemela

ICTP & International Day of Light Steering Committee

RECEPTION & NETWORKING 18:55-21:00

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 & the UNESCO International Basic Sciences Programme.

Steering Committee

