



Joint ISSP-OIST Symposium:

Lighting Up New Frontiers – From Tokyo to Okinawa, From Materials to Neurons

March 10th, 2014 *All sessions will be held at B250

09:00-09:45

OIST Welcome by President Dorfan, and Campus Tour

10:00-12:00

SESSION 1:

Playing a 'light' role in energy, materials and devices

Chair: Dr. Bala Murali Krishna

10:00-10:40

Yabing Qi (OIST)

Low-cost solar cells

10:40-11:20

Hidefumi Akiyama (ISSP)

Nano-device physics of semiconductor lasers, solar cells, and bioluminescence

11:20-12:00

Tohru Suemoto (ISSP)

Observation and control of spin motions by impulsive terahertz radiation

12:00-13:15

Lunch Break

13:15-15:15

Lab Tours

15:30-17:30

SESSION 2:

Reaching Higher – Higher Harmonics and X-Rays

Chair: Dr. Peter Hale

15:30-16:10

Yohei Kobayashi (ISSP)

10-MHz repetition rate, high-order harmonics generation

16:10-16:50

Jiro Itatani (ISSP)

Soft-X-ray high harmonic generation using a few-cycle intense infrared light source

16:50-17:30

Yoshihisa Harada (ISSP)

Soft X-ray emission spectroscopy

17:30-19:00

Additional Lab Tours and Discussion-Interaction Time



March 11th, 2014 *All sessions will be held at B250; Poster Session will be held in the Restaurant Space

09:00-11:00

SESSION 3:

Putting Light to Good Use

Chair: Dr. Eleftheria Kavousanaki

09:00-09:40 **Nic Shannon** (OIST)

Shedding light on frustrated magnets in high magnetic field

09:40-10:20 **Shik Shin** (ISSP)

Study of materials science by the laser-photoemission spectroscopy

10:20-11:00 **Sile Nic Chormaic** (OIST)

Manipulating and trapping particles with optical nanofiber guided light

11:00-12:00

Scientific Resources Tour

12:00-13:30

Lunch Break

13:30-15:30

SESSION 4:

Lighting Up New frontiers – Materials to Neurons

Chair: Dr. Michael Man

13:30-14:10 **Mukhles Sowwan** (OIST)

Build -A -Nanoparticle

14:10-14:50 **Yoko Yazaki-Sugiyama** (OIST)

Singing in the brain

14:50-15:30 **Jeff Wickens** (OIST)

Use of Optical Tools in the study of Memory & Learning Mechanisms in the Brain

15:30-17:30

Poster Session @ Restaurant Floor (Central Building, Level B)

- 12 Posters by ISSP students/postdocs/researchers in laser physics/materials science.
- 12 Posters by OIST students/postdocs/researchers showcasing OIST research