

## Joint ISSP-OIST Symposium:

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

*March 10<sup>th</sup>, 2014 \*All sessions will be held at B250*

---

**09:00-10:00 OIST Welcome 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*

---

**12:00-13:30 Lunch Break**

---

**13:30-15:30 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 11<sup>th</sup>, 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