Opening remarks by Prof. Hiroshi Masuhara

in

The 5<sup>th</sup> Hsinchu Summer Course and Workshop Single Molecule/Nanoparticle Spectroscopy and Imaging



#### Date

June 21-22, Summer Course June 23, Workshop

#### Venue

Room 210, Science Building II, NCTU

# The 5<sup>th</sup> Hsinchu Summer Course and Workshop on "Single Molecule/Nanoparticle Spectroscopy and Imaging" (2012-2016)

Aiming to provide the fundamental and advanced knowledges on optical and scanning microscopy, nanoprobe, nanomaterials, and their applications to material and biological sciences

to graduate students, postdocs, and young professors who are not specialists in the relevant fields.

Giving nice introduction of nanoscience and nanotechnology to participants who wish to join to these fields.

# Organized by Center for Interdisciplinary Science, NCTU NTHU/NCTU Frontier Research Center on Fundamental and Applied Sciences of Matters

Local organizing committee
Jiun-Tai CHEN, Yen-Ju CHENG, Hsin-Yun HSU, Ian LIAU (Co-Chair),
Hiroshi MASUHARA (Co-Chair), Teruki SUGIYAMA (NCTU)

Organizing committee
Teng-Ming Steve CHEN, Eric DIAU, Kien-Wen SUN, Jeng-Tzong SHEU,
Chien-Lung WANG (NCTU)
Chien-Tien CHEN, Chien-Hong CHENG, Yun CHI (NTHU)

Honorary Organizing committee Chain-Shu HSU, Yuan-Pern LEE, Yao-Kuen LI (NCTU)

### The International Summer Course on Single Molecule/Nanoparticle Spectroscopy and Imaging

Johan Hofkens



Room 210, Science Building II, National Chiao Tung University

≥ June 25-27, 2012 ○ s

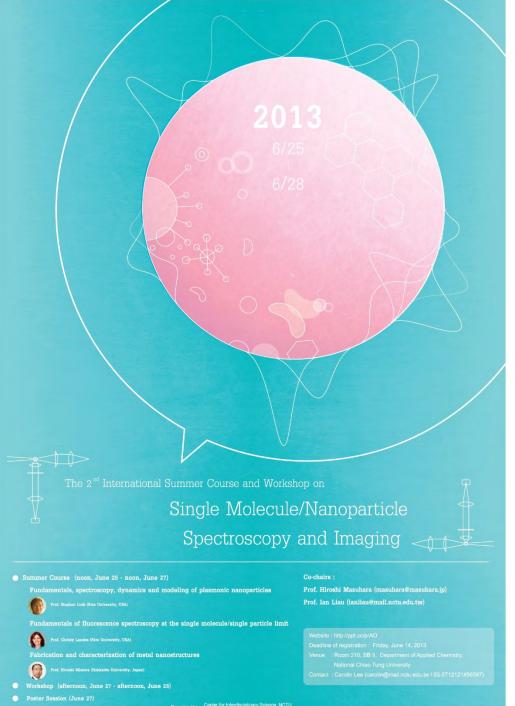
# The International Summer Course on Single Molecule/Nanoparticle Spectroscopy and Imaging

Naoto Tamai



Room 210, Science Building II, National Chiao Tung University

20 June 25-27, 2012 08





The 2 International Summer Col

# Single Spec

Summer Course (noon, June 25 - noon, June 27)

Fundamentals, spectroscopy, dynamics and modeling of plasmor



Prof. Stephan Link (Rice University, USA)

Fundamentals of fluorescence spectroscopy at the single molecu



Prof. Christy Landes (Rice University, USA)

Fabrication and characterization of metal nanostructures



Prof. Hiroaki Misawa (Hokkaido University, Japan)

- Workshop (afternoon, June 27 afternoon, June 28)
- Poster Session (June 27)

Organized by:

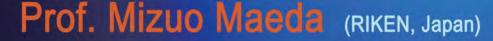
### The 3<sup>rd</sup> International Summer Course

Single Molecule/Nanoparticle

Spectroscopy and Imaging



"Nanochemistry on surfaces: a scanning probe microscopy approach"

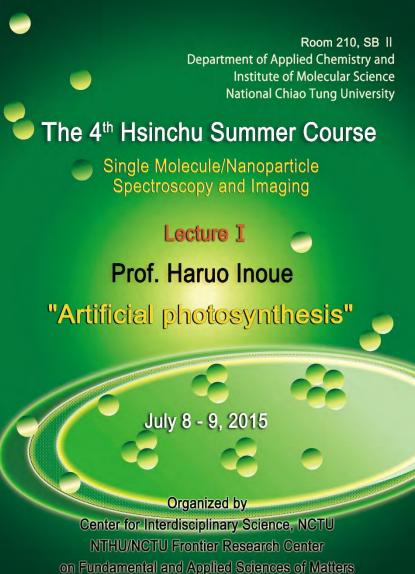


"DNA-Functionalized nanoparticles for chemical- and bio-sensing"

Prof. Tomoji Kawai (Osaka University, Japan)

"DNA nanotechnology and metal oxide nanotechnology"









This year we learn more on polymers, organic light emitting diode, and materials for energy conversion.

Indeed this Summer Course provides important advanced knowledges on

"Nano in Real World"

Science Building II Room 210 Department of Applied Chemistry and Institute of Molecular Science National Chiao Tung University

# The 5th Hsinchu Summer Course

Single Molecule/Nanoparticle Spectroscopy and Imaging

#### Lecture 1

**Prof. Martin Vacha** 

"Single-Molecule Spectroscopy for Polymers"

June 21 - 22, 2016

Local Organizing Committee

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#### Organized by

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# Course

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### Participants at 2016/06/17

- 153 Total
- ~ 60 National Chiao Tung University
- ~ 40 National Tsing Hua University
- ~ 40 Institutes and Universities in Taiwan
- ~ 10 Japanese

## Acknowledgements

We deeply thank to Profs. Vacha, Adachi, Misasaka, Misawa, and Kido for their kind understandings and important time to come here and to give wonderful lectures.

Organized by
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NTHU/NCTU Frontier Research Center on Fundamental and
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We are delighted to see that many young participants have registered from all areas of Taiwan. We are also thankful to all members of organizing committee and financial support.