

Opening remarks by Prof. Hiroshi Masuhara

in

**The 5th 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 5th 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

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Honorary Organizing committee

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

Lecture. I

*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 ☛

Lecture. II

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

Naoto Tamai



*Room 210, Science Building II,
National Chiao Tung University*

☞ June 25-27, 2012 ☛

2013

6/25

6/28

The 2nd International Summer Course and Workshop on

Single Molecule/Nanoparticle Spectroscopy and Imaging

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

Fundamentals, spectroscopy, dynamics and modeling of plasmonic nanoparticles



Prof. Stephan Link (Rice University, USA)

Fundamentals of fluorescence spectroscopy at the single molecule/single particle limit



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)

Co-chairs :

Prof. Hiroshi Masuhara (masuhara@masuhara.jp)

Prof. Ian Liao (ianliao@mail.nctu.edu.tw)

Website : <http://ppt.cc/prAO>

Deadline of registration : Friday, June 14, 2013

Venue : Room 210, SB II, Department of Applied Chemistry,

National Chiao Tung University

Contact : Carolin Lee (carolin@mail.nctu.edu.tw / 03-5712121#56597)

The 2nd International Summer Course

Single Molecule Spectroscopy and Imaging

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- Poster Session (June 27)

The 3rd International Summer Course

Single Molecule/Nanoparticle

Spectroscopy and Imaging

Prof. Steven De Feyter (KU Leuven, Belgium)



"Nanochemistry on surfaces: a scanning probe microscopy approach"

Prof. Mizuo Maeda (RIKEN, Japan)



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

Prof. Tomoji Kawai (Osaka University, Japan)



"DNA nanotechnology and metal oxide nanotechnology"

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

The 4th Hsinchu Summer Course

Single Molecule/Nanoparticle
Spectroscopy and Imaging

Lecture I

Prof. Haruo Inoue

"Artificial photosynthesis"

July 8 - 9, 2015

Organized by
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The 4th Hsinchu Summer Course

Single Molecule/Nanoparticle
Spectroscopy and Imaging

Lecture II

Prof. Keisuke Goda

"Extreme imaging"

July 8 - 9, 2015

Organized by
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The 4th Hsinchu Summer Course

Single Molecule/Nanoparticle
Spectroscopy and Imaging

Lecture III

Prof. Takeharu Nagai

"Fluorescent bio-probes"

July 8 - 9, 2015

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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”

Department of Applied Chemistry and Institute of Molecular Science
National Chiao Tung University

Science Building II Room 210
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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

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Summer Course

Single Molecule Spectroscopy and Imaging

Lecture 2

Yuya Adachi

“Exciton processes”

June 22, 2016

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Summer Course

Single Molecule Spectroscopy and Imaging

Lecture 3

Miyasaka

“Solar Energy Conversion”

June 22, 2016

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Single Molecule Spectroscopy and Imaging

Lecture 4

Teruki Misawa

“Solar Energy Conversion”

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Summer Course

Single Molecule Spectroscopy and Imaging

Lecture 5

Teruki Misawa

“Solar Energy Conversion”

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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.

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NTHU/NCTU Frontier Research Center on Fundamental and
Applied Sciences of Matters

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.