

# **The 11<sup>th</sup> International Summer Course on Nano Material Discovery “Exciton Science, Technology, and Application”**

**Co-organized by three projects in Australia, Japan, and Taiwan**

“Exciton Science” Project in Australia: <https://excitonscience.com/>

“Dynamic Exciton” Project in Japan: <https://dynamic-exciton.jp/>

“Emergent Functional Matter Science” Project in Taiwan: <https://cefms.web.nycu.edu.tw/>

## Abbreviations

NYCU, National Yang Ming Chiao Tung University

CEFMS, Center for Emergent Functional Material Science

DAC, Department of Applied Chemistry

COS, College of Science

ARC, Australian Research Council

JSPS, Japan Society of Promotion of Science

## **Program of the Summer Lectures**

### **June 17, Monday**

9:30-10:00

General Guidance: Hiroshi Masuhara (DAC, NYCU)

Opening Remarks by Jiu-Tai Chen (CEFMS, NYCU) and Hiroshi Imahori (Kyoto University)

10:00-12:00 Chairperson Hiroshi Masuhara

1. Paul Mulvaney (University of Melbourne)

“Exciton Science Project in Australia”

Discussed with Japanese and Taiwanese Project members.

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13:00-15:00 Chairperson Paul Mulvaney

2. Hiroshi Imahori (Kyoto University)

“Dynamic Exciton Project in Japan”

Discussed Australian and Taiwanese Project members.

15:30-17:30 Chairperson Hiroshi Imahori

3. Jiun-Tai Chen (NYCU)

“Emergent Functional Material Science Project in Taiwan”

Discussed with Australian and Japanese Project members.

### **June 18, Tuesday**

9:30-11:30 Chairperson

4. Hiroshi Imahori (Kyoto University)

“Dynamic Exciton for Energy and Biological Applications”

11:30-13:30

Poster Session and Lunch Box, Poster award competition is set.

8 Australian invited presentations, 16 Japanese Students, and 24 NYCU Students

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13:30-15:30 Chairperson Teruki Sugiyama

5. Nina Novikova (University of Melbourne)

“Porphyrins: Photochemistry & Application in Photodynamic Therapy (PDT)”

Sam Brooke (University of Melbourne)

“Breaking the Selection Rules with Double Resonance Raman Spectroscopy”

16:00-18:00 Chairperson

6. Hiroko Yamada (Kyoto University) Chairperson;

“Photoprecursor Approach for the Synthesis of Organic Semiconductors”

### **June 19, Wednesday**

9:30-11:30 Chairperson

7. Paul Mulvaney (University of Melbourne)

“Nanocrystal Spectroscopy: Fundamentals and Energy Applications”

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13:00-15:00 Chairperson

8. Seiichiro Izawa (Tokyo Institute of Technology)

“Dynamic Exciton at Organic Semiconductor Interface and its Application to Optoelectronic Devices”

15:30-17:30 Chairperson

9. James Hutchison (University of Melbourne)

“Manipulating Excitons with Flexible and Sustainable Photonic Materials”

17:30-17:40

Closing Remarks by Paul Mulvaney (University of Melbourne) and Teruki Sugiyama (CEFMS, NYCU)