

[PROGRAM] Next Generation of Optimists

Monday 31st July 2017

09:30 Registration

09:45 Welcoming Speech

Ngo Huynh Thien (WPI-MANA, NIMS)

10:00 Keynote Lecture

“How Can We Control Molecular Machines? nm-Tip or cm-Hand”

Katsuhiko Ariga (WPI-MANA, NIMS)

10:30-12:30

Session 1: Organic Materials

Chair: Katsuhiko Ariga (WPI-MANA, NIMS)

10:30-11:00

“New methods towards 1,2,3-triazoles”

Wim Dehaen (KU Leuven, Belgium)

11:00-11:30

“Pyrazinacenes and Oxoporphyrinogens”

Jonathan Hill (WPI-MANA, NIMS)

11:30-12:00

“Supramolecular control of and by mechanical interlocked systems”

Huynh Thien Ngo (WPI-MANA, NIMS)

12:00-12:30

“Controlled sequence as a research target in chemistry and materials science”

Kentaro Tashiro (WPI-MANA, NIMS)

12:30-13:30 Lunch Break

13:30-16:30

Session 2: Inorganic-Hybrid Materials

Chair: Willi Auwärter (TUM, Germany)

13:30-14:00

“Fullerene Nanoarchitectonics from Zero-to-Higher Dimensions”

Lok Kumar Shrestha (WPI-MANA, NIMS)

14:00-14:30

“Making, Modelling, Materialising”

Hamish Yeung (University of Oxford, UK)

14:30-15:00

“An alternative route to confinement in lead halide perovskite quantum dots”

Victor Malgras (JSPS, WPI-MANA, NIMS)

15:00-15:30 Coffee Break

15:30-16:00

“Small-scale off-grid photovoltaic system - stretching the technological system boundaries”

Martin Elborg (ICYS-Sengen, NIMS)

16:00-16:30

“Approaching Challenges in Optics Through the Lens of Colloidal Chemistry”

Joel Henzie (WPI-MANA, NIMS)

16:30-18:00 Lab Tour

18:00-21:00 Banquet at Cafeteria

Tuesday 1st August 2017

09:30-12:00

Session 3: Surface and Interface Science

Chair: Wim Dehaen (KU Leuven, Belgium)

09:30-10:00

“Nanoscience at interfaces: Insights to functional molecules interacting with surface-supported graphene or h-BN monolayers”

Willi Auwärter (TUM, Germany)

10:00-10:30

“Molecular machines at interfaces”

Waka Nakanishi (WPI-MANA, NIMS)

10:30-11:00

“Understanding nanoporous materials with the Tools of Surface Science”

J. Anibal Boscoboinik (Brookhaven National Laboratory, USA)

11:00-11:30 Coffee Break

11:30-12:00

“Marangoni propulsion at curved interfaces”

Stoffel Janssens (Okinawa Institute of Science and Technology Graduate University, Japan)

12:00-13:00 Lunch Break

13:00-14:00

Session 4: Bio-target Materials

Chair: Waka Nakanishi (WPI-MANA, NIMS)

13:00-13:30

“Fluid or elastic materials for Cellular scaffolds”

Kosuke Minami (WPI-MANA, NIMS)

13:30-14:00

“Mitochondria targeted theranostic drug delivery systems for cancer therapy”

Peter Verwilt (Korea University, South Korea)

14:00-15:30

Session 5: Sensing Materials and Devices

Chair: Jonathan Hill (WPI-MANA, NIMS)

14:00-14:30

“Reliable measurement of trace-moisture in gas”

Hisashi Abe (AIST, Japan)

14:30-15:00

“Nanomechanical Sensing Toward Better World”

Genki Yoshikawa (WPI-MANA, NIMS)

15:00-15:30

“Multi-responsive porphyrin-based systems”

Jan Labuta (WPI-MANA, NIMS)

15:30-16:00 Coffee Break

16:00-16:30

Special Session

Chair: Ngo Huynh Thien (WPI-MANA, NIMS)

16:00-16:30

“Sustainably scaling up your basic research: environmental considerations for material scientists”

Karina Vink (GREEN, NIMS)

16:30 Closing Remarks