



東大先端研  
Research Center for  
Advanced Science and Technology  
The University of Tokyo



UNIVERSITÉ DE  
BORDEAUX



## The 6th LIA NextPV International Workshop Program

ENEOS Hall (Building 3-S), RCAST, The University of Tokyo

[http://www.rcast.u-tokyo.ac.jp/home/access/index\\_en.html](http://www.rcast.u-tokyo.ac.jp/home/access/index_en.html)

### **11th Dec (Mon), 2017**

- 9:30 [Start] Welcome & RCAST Director's Address  
Overview in 2017 (JF. Guillemoles & Y. Okada)
- 9:40 TBD: Invited speech by Dr. Laurent Nicolas, Deputy Director, CNRS INSIS (5min)  
Invited speech by Mr. Jacques Maleval, Director, CNRS Tokyo (5min)  
METI Japan-France Collaboration Program, Prof. Takaya Kubo (15min)  
Invited presentation by Mr. Seiichiro Yoshioka, Horiba Co. (20min)  
Invited presentation by Mr. Claude Heller (Director R&D, Air Liquide) (20min)
- 10:45 [Coffee Break]
- 11:00 **1st Session (High-Efficiency PV: 15min X 6 presentations)**  
Coordinators: Profs. JF. Guillemoles, Y. Okada, S. Collin, Z. Jehl  
Presenters: Prof. S. Collin, Prof. C. Fontaine, Dr. A. Delamarre  
Dr. R. Tamaki, Dr. N. Miyashita, Dr. D. Suchet
- 12:30 [Group Photo & Lunch]
- 14:00 **2nd Session (OPV, Perovskites, QODs: 15min X 6 presentations)**  
Coordinators: Profs. G. Hadziioannou, H. Segawa, E. Cloutet, T. Kubo, T. Kondo  
Presenters: Prof. E. Cloutet, Dr. G. Camille, Dr. S. Chambon,  
Prof. H. Segawa, Prof. T. Kubo, Dr. S. Almosni
- 15:30 [Coffee Break]
- |       |   |   |
|-------|---|---|
| 16:00 | <b>Board Meeting</b> @ CCR Bld. 5F          | Lab tour for invited guests and attendees |
|       | Prof. JF. Guillemoles "PV research at IPVF" | Catch-up discussions in small groups      |
- 17:30 [Close of Board Meeting]
- 18:30-20:30 Dinner

## 12th Dec (Tue), 2017

9:00 [Start] **3rd Session (Characterization, PV system etc.: 15min X 6 presentations)**

Coordinators: Profs. C. Alonso, M. Sugiyama, D. Aureau, H. Akiyama

Presenters: Prof. C. Alonso, Prof. H. Akiyama, Mr. K. Toprasertpong

Prof. L. Vignau, Dr. D. Aureau, Dr. M. Sato

10:30 [Coffee Break]

10:50 Invited presentation by Dr. Eric Leclerc, Director of LIMMS (IIS) (15min)

Invited presentation by Dr. Fabien Grasset, Director of LINK (NIMS) (15min)

11:15 Poster Session / Lunch-box

12:50 [Close] Conclusion & Closing Address

13:00 Depart for company visit

[Back to RCAST either directly after the visit at ~ 18:30]

## 13th Dec (Wed), 2017

**11am~ Meeting for high-efficiency group** (CCR 502 is reserved)

Oral Session presentations:

**1st Session (High-Efficiency PV: 15min X 6 presentations)**

Prof. Stéphane Collin, "Ultra-thin III-V photovoltaics"

Prof. Chantal Fontaine, "III-V solar cells: Infrared absorbers and type II tunnel junctions"

Dr. Ryo Tamaki, "Efficient two-step photon absorption in type-II GaSb quantum dot solar cells"

Dr. Naoya Miyashita, "Inverted and non-inverted grown lattice-matched multijunction solar cells with 1.0eV GaInNAsSb subcell"

Dr. Amaury Delamarre, "Role of Ratchet States in Nanostructure Intermediate Band Solar Cell"

Dr. Daniel Suchet, "Influence of Hot-Carrier Extraction from a Photovoltaic Absorber: An Evaporative Approach"

**2nd Session (OPV, Perovskites, QDs)**

Prof. Hiroshi Segawa, "High efficiency perovskite solar cells"

Prof. Eric Cloutet, "Synthesis of photoactive inks"

Prof. Takaya Kubo, "Solution-processed colloidal quantum dot solar cells working in the infrared region"

Dr. Sylvain Chambon, "Organic semiconductors nanoparticles studied by Transient Absorption Spectroscopy"

Dr. Samy Almosni, "Amorphous TiO<sub>2</sub> for the realization of hysteresis-free planar PSCs"

Dr. Geffroy Camille, "Functionalized poly (9-vinylcarbazole) as hole transporting material for perovskite solar cells"

**3rd Session (Characterization, PV systems)**

Prof. Corinne Alonso, "System design for solar hydrogen production"

Prof. Laurence Vignau, "Characterization of interfaces in organic solar cells"

Dr. Masahiro Sato, "Band-alignment characterization of GaN photoelectrodes"

Dr. Damien Aureau, "Characterization of III-V PV and photoelectrodes"

Dr. Hidefumi Akiyama, "Optical characterization of multijunction PV"

Mr. Kasidit Toprasertpong, "Reciprocity relationship in quantum well PV"

Poster Session presentations:

Prof. N. Ahsan, "Multiband formation in Cr doped CuGaS<sub>2</sub> thin films synthesized by chemical spray pyrolysis"

Dr. Z. Jehl, "Pathways for the realization of a proof-of-concept Hot Carrier Solar Cell"

Dr. Y. Shoji, "Proportion of optical transition on carrier extraction from GaSb quantum nanostructures"

Dr. K. Yoshida, "Drift-diffusion analysis on quantum efficiency of quantum-dot intermediate-band solar cells"

Y. He (PhD student), "N-H related deep-level defects in dilute nitride semiconductor GaInNAs for 4-junction solar cell"

M. Giteau (PhD student), "Ultra-thin solar cells for high-efficiency photovoltaics"

B. Yu Jeco (PhD student), "Luminescent coupling current collection mapping of InGaP/GaAs/Ge Triple Junction Solar Cells"

F. Archet (U. Bordeaux), "Bio-Inspired Small Molecules from One-Pot Synthesis for High Open Circuit Voltage Organic Solar Cells"

H. Wang, "Solution-processed short-wave infrared PbS colloidal quantum dot / ZnO nanowire solar cells"