

# CEMSupra 2019 Program

## December 9 (Monday)

- 13:00–13:10 **Opening Remarks**  
Yoshinori Tokura (RIKEN CEMS)
- Chairperson: Takuzo Aida*
- 13:10–13:50 **Invited Lecture (L-01)**  
Krzysztof Matyjaszewski (Carnegie Mellon University)  
“Nanostructured Functional Materials by Atom Transfer Radical Polymerization”
- 13:50–14:30 **Invited Lecture (L-02)**  
David A. Leigh (The University of Manchester)  
“Making the Tiniest Machines”
- 14:30–14:50 Coffee Break
- Chairperson: Yong-Jin Pu*
- 14:50–15:05 **CEMS Presentation (C-01)**  
Naoya Aizawa (RIKEN CEMS)  
“Kinetic Prediction of Reverse Intersystem Crossing in Organic Donor–Acceptor Molecules”
- 15:05–15:45 **Invited Lecture (L-03)**  
Itamar Willner (Hebrew University of Jerusalem)  
“Supramolecular Nanostructures for Catalysis, Photocatalysis and Nanomedicine Applications”
- 15:45–16:25 **Invited Lecture (L-04)**  
Chihaya Adachi (Kyusyu University)  
“Indication of Current Injection Organic Semiconductor Laser Diodes”
- 16:25–16:50 Coffee Break
- Chairperson: Keisuke Tajima*
- 16:50–17:05 **CEMS Presentation (C-02)**  
Chao Wang (RIKEN CEMS)  
“Surface-induced Chirality in Thin Films of Fullerene Compounds”
- 17:05–17:45 **Invited Lecture (L-05)**  
Iain McCulloch (King Abdullah University of Science and Technology)  
“The Role of Polymer Chemistry in High Performance Organic Electronic Applications”
- 18:00–20:10 **Poster Session (P-1~P-106)**  
18:00–18:50 Odd Numbers (P-1, P-3, ..., P-105)  
18:50–19:40 Even Numbers (P-2, P-4, ..., P-106)  
19:40–20:10 Free Discussion

## December 10 (Tuesday)

*Chairperson: Yasuhiro Ishida*

10:00–10:40 **Invited Lecture (L-06)**  
Takanori Fukushima (Tokyo Institute of Technology)  
“Synthesis, Properties, and Applications of Molecular Assemblies with Ultra-Long Range Structural Order”

10:40–11:20 **Invited Lecture (L-07)**  
Dmitri V. Talapin (University of Chicago)  
“Self-assembly of Colloidal Nanocrystals: from Intricate Structures to Functional Materials”

11:20–11:40 Coffee Break

*Chairperson: Fumito Araoka*

11:40–11:55 **CEMS Presentation (C-03)**  
Koki Sano (RIKEN CEMS)  
“Propagating Wave by Coherent Motion of Physically Interlocked Nanosheets”

11:55–12:35 **Invited Lecture (L-08)**  
Eugenia Kumacheva (University of Toronto)  
“From Cholesteric Nanocolloidal Liquid Crystals to Nanofibrillar Hydrogels”

12:35–13:45 Lunch Break

13:45–14:30 **Extended Poster Session (all the posters)**

*Chairperson: Daisuke Hashizume*

14:30–14:45 **CEMS Presentation (C-04)**  
Manabu Hoshino (RIKEN CEMS)  
“Bayesian Inference using X-ray Diffraction Data: Estimation of Crystal Structure Parameter and Application to Host-Guest Chemistry”

14:45–15:25 **Invited Lecture (L-09)**  
Jian Ping Gong (Hokkaido University)  
“Self-growing Hydrogels by Repetitive Mechanical Training”

15:25–15:50 Coffee Break

*Chairperson: Kazuo Takimiya*

15:50–16:30 **Invited Lecture (L-10)**  
Nicolas Giuseppone (University of Strasbourg)  
“Artificial Molecular Machines That Work at All Scales”

16:30–17:10 **Invited Lecture (L-11)**  
Hiroyuki Isobe (The University of Tokyo)  
“Physics Seen Through Macrocycles of Organic Chemists”

17:10–17:30 **Closing Remarks**  
Takuzo Aida (RIKEN CEMS)