



## SOLVAY WORKSHOP ON CHARGE, SPIN, AND HEAT TRANSPORT IN ORGANIC SEMICONDUCTORS

### PROGRAM (15 - 17 NOVEMBER 2016)

#### TUESDAY 15 NOVEMBER

- |       |       |   |
|-------|-------|---|
| 9:30  | 10:00 | Registration and welcome coffee   |
| 10:00 | 10:20 | <i>Welcome and introductory speech by Yves Geerts</i>   |
| 10:20 | 11:00 | Georges Hadziioannou<br><i>Structure - Properties correlations for thermoelectric polymers: Towards efficient material design</i> |
| 11:00 | 11:40 | Zhigang Shuai<br><i>Modeling charge and heat transports in organic/polymeric materials</i>  |
| 11:40 | 12:20 | Shu Seki<br><i>Electron mass and conductivity on pi-conjugated molecules in their condensed phases and at interfaces</i>          |
| 12:20 | 13:00 | Daniel Frisbie<br><i>Structure-Transport Relationships in Single Crystal Organic FETs</i>   |
| 13:00 | 14:00 | LUNCH - Sandwich lunch and informal discussions   |
| 14:00 | 14:40 | Alberto Saleo<br><i>A new plastic artificial synapse</i>  |
| 14:40 | 15:20 | Kazuo Takimiya<br><i>Thienoacenes; molecules for organic semiconductors and beyond</i>  |
| 15:20 | 16:00 | Karl Leo<br><i>Novel organic transistors</i>  |
| 16:00 | 16:30 | COFFEE BREAK  |
| 16:30 | 17:10 | Jean-Luc Brédas<br><i>The Impact of Coherence Effects in Organic Electronics</i>  |

- 17:10 17:50 Fabio Biscarini  
*Electrolyte-gated organic field effect transistors: doping effects in organic semiconductors in water*
- 17:50 18:00 Break and installation of posters
- 18:00 20:00 Poster session and buffet of Belgian gastronomic specialties

### **WEDNESDAY 16 NOVEMBER**

- 10:00 10:40 Erik McNellis  
*Modeling spin transport and spin-phenomena in organics*
- 10:40 11:20 Yueh Lin Loo  
*Polymorphic transformations in Thin Films of Core-Chlorinated Naphthalene Diimide Derivatives*
- 11:20 12:00 Narcis Avarvari  
*Chiral conducting molecular materials*
- 12:00 12:40 Bert Koopmans  
*Magnetic field effects in organic semiconductors*
- 12:40 13:30 **GROUP PHOTO (before leaving for lunch)**  
**LUNCH - Sandwich lunch and informal discussions**
- 13:30 14:10 Chihaya Adachi  
*Triplet exciton management in organic light emitting devices*
- 14:10 14:50 Henning Sirringhaus  
*Charge and spin transport physics of high mobility organic semiconductors*
- 14:50 15:30 Jun Takeya  
*Materials and integrated circuits of organic semiconductors*
- 15:30 16:10 Christian Maes  
*Non-dissipative aspects in structure and transport out-of-equilibrium*
- 16:10 16:30 **COFFEE BREAK**
- 16:30 17:30 Solvay Colloquium by Ron Naaman  
*The chiral induced spin selectivity effect- from spintronics to Biology*
- 17:30 19:30 Free time downtown Brussels to drink a beer, to visit or to buy chocolates
- 19:30 *Banquet at « La Maison du Cygne »*

## THURSDAY 17 NOVEMBER

- |       |       |   |
|-------|-------|---|
| 10:00 | 10:40 | Xavier Crispin<br><i>Thermoelectric properties of Poly(3,4-ethylenedioxythiophene) derivatives</i>                            |
| 10:40 | 11:20 | Guillaume Schweicher<br><i>Structure-property relationship of thienoacenes</i>  |
| 11:20 | 12:00 | John Anthony<br><i>Structure / transport relationships in crystalline organic semiconductors</i>                              |
| 12:00 | 13:30 | <b>LUNCH - Sandwich lunch and informal discussions</b>  |
| 13:30 | 14:10 | Ferdinand Grozema<br><i>Effect of molecular packing and structural dynamics on charge transport in organic semiconductors</i> |
| 14:10 | 14:50 | Yoann Olivier<br><i>How microstructure defines function in organic conjugated materials: insights from modeling</i>           |
| 14:50 | 15:20 | Yves Geerts<br><i>Conclusions</i>   |