

# Polysolvat-12 - Conference Programme

All talks will be given in the Chadwick Amphitheater at ILL

## Tuesday 4 September 2018

- 11:30-12:30 Early registration (*mandatory for people eating at the canteen*)  
12:00-13:30 *Lunch - self-service at ILL/ESRF canteen / free*  
13:00-14:00 Registration  
14:00-14:30 Welcome address - **Jean-Luc PUTAUX, Giovanna FRAGNETO, Jean SUSINI**  
**Chair: Jean-Luc PUTAUX**  
14:30-15:10 Hybrid thermoreversible gels: polymer/self-assembled systems  
**Jean-Michel GUENET**  
15:10-15:30 Syndiotactic polystyrene fibers with antimicrobial properties  
**Christophe DANIEL**, Chiara BOTTA, Antonietta COZZOLINO, Paola RIZZO, et al.  
15:30-15:50 Complexes of amylose with diols: polymorphism and factors affecting the crystal structure  
**Cong-Anh-Khanh LE**, Denis WOUESSIDJEWE, Luc CHOISNARD, Jean-Luc PUTAUX  
15:50-16:20 *Coffee break - Hall ILL 4*  
**Chair: Giovanna FRAGNETO**  
16:20-17:00 Influence of physico-chemical interactions on formation and properties of polymer nanoparticles  
**Petr STEPANEK**  
17:00-17:20 Alternating sequence-controlled polymers with thermo-, pH- and selective ion induced phase transition  
**Esther CAZARES CORTES**, François TOURNILHAC, Makoto OUCHI, Bogdan TARUS, et al.  
17:20-17:40 *to be announced*  
*Free evening*

## Wednesday 5 September 2018

- Chair: Rebeca HERNÁNDEZ**  
09:00-09:40 Self-assembling amyloid building blocks as scaffolds for rational material design  
**Anna MITRAKI**, Joseph M. JAKUBOWSKI, Antonio L. LLAMAS-SAIZ, et al.  
9:40-10:00 Hierarchical nanotube self-assembly by DNA minor groove binding ligand DB921 via alkali halide triggering  
**Ryo MIZUTA**, Edward P. MITCHELL, Trevor V. FORSYTH, Michael HAERTLEIN, et al.  
10:00-10:20 Deuteration of biomolecules for neutron scattering studies  
Michael HÄRTLEIN, Martine MOULIN, Juliette DEVOS, Valérie LAUX, **Trevor FORSYTH**  
10:20-10:50 *Coffee break - Hall ILL 4*  
**Chair: Ralf SCHWEINS**  
10:50-11:30 Coupling between protein and hydration water dynamics  
**Martin WEIK**, Giorgio SCHIRO, Bente VESTERGAARD, Tilo SEYDEL, et al.  
11:30-11:50 Presentation of the Partnership for Soft Condensed Matter (PSCM)  
Yuri GERELLI, **Giovanna FRAGNETO**  
11:50-12:10 Presentation of the Partnership for Structural Biology (PSB)  
**Florent BERNAUDAT**  
12:10-14:00 *Lunch - self-service at ILL/ESRF canteen*  
**Chair: Yu OGAWA**  
14:00-14:40 Solvent organisation and dynamics in self-assembled molecular gels  
Isabelle MORFIN, **Marie PLAZANET**, Miguel A. GONZALEZ, Sylvie SPAGNOLI  
14:40-15:00 Research on syndiotactic polystyrene complexes with simultaneous measurements of small-angle and wide-angle neutron scattering with FTIR spectroscopy  
**Fumitoshi KANEKO**, Zhaomin HOU, Masayoshi NISHIURA, Shinichi TAKATA, et al.  
15:00-15:20 Swelling and visco-elastic behaviour of wood in mixed solvents  
Julie BOSSU, Melissa POLINI, **Nicolas LE MOIGNE**, Stéphane CORN, et al.  
15:20-15:50 *Coffee break - Hall ILL 4*

**Chair: Christophe DANIEL**

- 15:50-16:30 Biobased polymer hydrogels. Challenges & strategies  
**Rebeca HERNÁNDEZ**
- 16:30-16:50 Engineering of MoS<sub>2</sub> quantum dots/PANI aerogel for high energy supercapacitor and hydrogen evolution electrocatalyst  
Arun. K. NANDI, **Sujoy DAS**
- 16:50-17:10 Formation of recognition sites in an acrylic polymer by the molecular printing technique  
Djahida LERARI, **Lamia BEDJAOU-ALACHAHER**, , Nouria BOUCHIKHI, et al.
- 17:30-20:00 *Poster session / Wine & Cheese*

**Thursday 6 September 2018**

**Chair: Trevor FORSYTH**

- 9:00-9:40 Supramolecular polymer brushes for Janus-like nano-objects and hierarchical self-assemblies  
**Olli IKKALA**
- 9:40-10:00 Experimental evidence of molecular relaxation processes in cellulose-amine physical complexes  
Agustin RIOS DE ANDA, L. HEUX, C. VERGELATI, K. MAZEAU, **Yoshiharu NISHIYAMA**
- 10:00-10:20 Insights into cellulose solvation in organosolv mixtures: a molecular dynamics and quantum mechanics study  
**Sonia M. AGUILERA-SEGURA**, Tzonka MINEVA, Francesco DI RENZO, Julie BOSSU
- 10:20-10:50 *Coffee break - Hall ILL 4*

**Chair: Sylvain PREVOST**

- 10:50-11:30 How do cosolutes stabilize polymers? From bridging to depletion attraction  
**Daniel HARRIES**, Liel SAPIR
- 11:30-11:50 Structure and molecular interactions of chitin crystallosolvates  
**Yu OGAWA**
- 11:50-12:10 Adsorption of oligo-ampholytes to like-charged polyelectrolytes  
Raju LUNKAD, **Peter KOŠOVAN**
- 12:10 -14:00 *Lunch - self-service at ILL/ESRF canteen*
- 14:00-17:00 *Free or visit of ILL and ESRF*
- 19:30-22:00 *Dinner at Restaurant Fantin Latour*

**Friday 7 September 2018**

**Chair: Marie PLAZANET**

- 09:00-9:40 Adaptable polysaccharide hydrogels with reversible boronate ester crosslinks: control of the mechanical properties through the synthetic manipulation of the small molecule crosslinkers  
**Rachel AUZÉLY**
- 9:40-10:00 Hyaluronic – Pluronic mixed system: Depletion interaction between micelles triggered by the polyelectrolyte chain conformation  
**Isabelle GRILLO**, Jérôme COMBET, Isabelle MORFIN
- 10:00-10:20 Efficient facilitated transport of lead and cadmium across a plasticized triacetate membrane mediated by organo-phosphorous carrier  
Naima ABDELLAOUI, Omar AROUS, Rachida BOUMEHDI, S. ABABSA, **Akkacha MAZARI**
- 10:20-10:50 *Coffee break - Hall ILL 4*

**Chair: Jean-Michel GUENET**

- 10:50-11:30 Parity violation in supramolecular aggregation: Insights from optoelectronic properties  
**Arun K. NANDI**, Arnab SHIT, Pousali CHAL
- 11:30-11:50 Opportunities and challenges for small-angle neutron scattering of polymers  
**Sylvain PREVOST**
- 11:50-12:10 *Farewell*  
**Jean-Luc PUTAUX**
- 12:10-14:00 *Lunch - self-service at ILL/ESRF canteen or sandwiches*
- 14:00-15:00 ILL's Colloquium (*Chadwick Amphitheater - optional for Polysolvat attendees*)  
**Olli IKKALA**