



# Workshop on nanocomposite polymers for 3D-printing of high-tech structures

University of Namur, Belgium, 22-23 May 2018

## Preliminary Program

### Tuesday May 22

- 08h30 Registration
- 09h15-09h30 Welcome
- 09h30-10h15 *2D and 3D structured nanocomposites containing carbon and magnetic nanoparticles for the efficient control of electromagnetic signals*  
 Yann Danlée and Raj Jaiswar, Ecole polytechnique de Louvain, Université Catholique de Louvain, Louvain-La-Neuve, Belgium
- 10h15-11h00 *Carbon based photonics crystals and electromagnetic tunable absorbers*  
 Polina Kuzhir, Institute for Nuclear Problem, Belarusian State University, Minsk, Belarus
- 11h00-11h15 Break
- 11h15-11h30 Contribution from a young participant
- 11h30-12h00 *Anisotropic composite materials based on carbon nanotubes for electromagnetic applications*  
 Alexander V. Okotrub, Nikolaev Institute of Inorganic Chemistry, Novosibirsk, Russia
- 12h30-14h00 Lunch
- 14h00-14h45 *The multiple roles of ionic liquids applied to polymer/2D-materials nanocomposites*  
 Ricardo Donato, Graphene and Nanomaterial Research Center, Sao Paulo, Brazil
- 14h45-15h30 *PLA/Graphene/MWCNT composites with improved electrical and thermal properties for 3D printing applications*  
 Evgeni Ivanov, NanoTechLab, Sofia, Bulgaria
- 15h30-15h45 Contribution from a young participant
- 15h45-16h00 Break
- 16h00-16h45 *Broadband spectroscopy - applications for composites*  
 Juras Banis, Department of Radiophysics, Vilnius University, Vilnius, Lithuania
- 17h00-18h00 Poster session

### Wednesday May 23

- 09h00-09h45 *SLS 3D printing of flexible polymer materials*  
 Hesheng Xia, Sichuan University, China
- 09h45-10h00 Contribution from a young participant

- 10h00-10h45 *Nanocomposites for DLP 3D printing, from materials' engineering to materials' science*  
Ignazio Roppolo, Department of Applied Science and Technology, Politecnico di Torino, Italy
- 10h45-11h00 Break
- 11h00-11h45 *PDMS for 3D printing materials: Challenges and perspectives*  
Ekaterine Sanaia, Sokhumi Ilia Vekua Institute of Physics and Technology, Tbilisi, Georgia
- 11h45-12h15 *Rheology of polylactic acid composites filled with multi-walled carbon nanotubes and graphene nanoplates for 3D printing application*  
Sonia S. Tabakova, Institute of Mechanics, Bulgarian Academy of Sciences, Sofia, Bulgaria
- 12h15-12h30 Contribution from a young participant
- 12h30-12h40 Closing
- 14h00-18h00 Excursion