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CENTRO DE PESQUISAS AVANÇADAS EM GRAFENO, NANOMATERIAIS E NANOTECNOLOGIAS

“Introducing the European Project H2020 – Graphene 3D”

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The “Multifunctional Graphene-based Nanocomposites with Robust Electromagnetic and Thermal Properties for 3D-printing Application (**Graphene 3D**)”, is a 4 years duration project that is part of the Marie Skłodowska-Curie Actions (MSCA) - Research and Innovation Staff Exchange (RISE) - H2020-MSCA-RISE-2016 call. Partners of Graphene 3D project are 8 RTDs and 2 SMEs from 7 countries located in Europe, China and Brazil, where MackGraphe is the Brazilian partner. This initiative is part of the European Commission’s (EC) science and technology investment strategy, seeking for international cooperation formation and students/researchers improvement through international research experiences. The project focus on the design and characterization of polymer nanocomposites with graphene and carbon nanotubes, and the use of rheological methods as a tool for control on the nanocomposites optimization. Moreover, these optimization tools will be used for manufacturing and detailed prototyping of multifunctional polymer nanocomposites for application in additive manufacturing. This presentation will both give an overview of the project and introduce the research at OLEM (laboratory) and Nano Tech Lab Ltd (Spin-off), both settled at the Institute of Mechanics, Bulgarian Academy of Sciences.



Prof^a. Dr^a. Rumiana Kotsilkova is a Full Professor at the Institute of Mechanics, Bulgarian Academy of Sciences. She has a degree of Doctor of Sciences and PhD. Her research expertise includes an Alexander von Humboldt Fellowship at University of Karlsruhe, Germany. She was also a visiting professor in Toyota Technological Institute, Nagoya, Japan, as well as a guest-professor in Yamagata University, Yonezawa, Japan. Her main research interests are in design, characterization and rheology-structure-properties relationships in polymer nanocomposites. Prof. Kotsilkova has about 110 Publications in peer review journals and has participated as a leading partner in 7 Europe an Projects. Currently she is the head researcher of OLEM and the coordinator of the Graphene 3D project.



Evgeni Ivanov is Associate Professor at the Institute of Mechanics, Bulgarian Academy of Sciences. He is a Management Committee Member of three “European Cooperation in Sciences and Technology” (COST Actions). His main research interests are on rheology-structure-property relationship and 3D printing of polymer nanocomposites, in which he has 45 publications in peer reviewed journals. Currently, he is the manager of NanoTechLab Ltd (Research and Development of Nanomaterials and Nanotechnologies), in which he participated in four European projects in the framework of H2020 and Graphene Flagship.