



## WORKSHOP

in the framework of the ERASMUS+ KA107 Mobilities with Partner Countries  
established with Toyo University, Japan

# “New Opportunities for Interdisciplinary Research in BIO – NANO – SCIENCE”

3<sup>rd</sup> Edition, Timișoara, Romania

organised by POLITEHNICA UNIVERSITY TIMISOARA,  
with the collaboration of the ROMANIAN ACADEMY - TIMISOARA BRANCH and  
the ASSOCIATION JSPS ALUMNI

Date: Tuesday, September 11, 2018

Venue: Sala Polivalenta, Politehnica University Library

Vasile Pârvan 2B, 300223 Timișoara

## WORKSHOP CHAIRS

**Professor Floriana D. STOIAN,**  
Politehnica University Timișoara,  
Vice President of the Association JSPS Alumni

**Dr. Ladislau VÉKÁS, Corresponding  
Member of the Romanian Academy,**  
Romanian Academy - Timisoara Branch



10:00 – 10:15	<b>Opening &amp; Welcome</b> Dr. Ladislau VÉKÁS, Corresponding Member of the Romanian Academy, Romanian Academy - Timisoara Branch Professor Floriana D. STOIAN, Politehnica University Timisoara & JSPS Alumni Association
10:15 – 11:00	Professor Toru MAEKAWA, Toyo University, Japan: <b>Creation of novel nano materials and their application to biomedical studies</b>
11:00 – 11:30	Dr. Mădălin ENACHE, Institute of Biology Bucharest of the Romanian Academy, Romania, & JSPS Alumni Association: <b>Interaction of some nanomaterials with halophilic microorganisms isolated from mural paintings of historical monument church</b> Authors: Mădălin Enache, Roxana Cojoc, Simona Neagu, Ioana Gomoiu
11:30 – 11:45	Tea & Coffee break
11:45 – 12:30	Professor Hisao MORIMOTO, Toyo University, Japan: <b>Activation of enzymes utilizing magnetic particles</b>
12:30 – 13:00	Dr. Rodica Paula TURCU, National Institute for Research and Development of Isotopic and Molecular Technologies Cluj-Napoca, Romania: <b>Magnetoresponse nanosystems with controlled morphology and surface functionalization</b>
13:00 – 14:00	Lunch break
14:00 – 14:30	Professor Daniel VIZMAN, Faculty of Physics, West University of Timisoara: <b>Control of melt convection using electric and magnetic fields</b>
14:30 – 15:00	Professor Romeo SUSAN – RESIGA, Politehnica University Timisoara, Romania: <b>Research topics in complex fluid systems engineering</b>
15:00 – 15:15	Tea & Coffee break
15:15 – 15:45	Dr. Vlad SOCOLIUC, Romanian Academy – Timisoara Branch: <b>High colloidal stability ferrofluids: synthesis, characterization and applications</b>
15:45 – 16:15	Professor Floriana D. STOIAN, Politehnica University Timisoara & JSPS Alumni Association <b>Magnetic nanofluids: heat transfer control by magnetic fields and their thermal properties</b>
16:15 – 16:30	<b>Closing discussions</b> Moderator: Dr. Ladislau VÉKÁS, Corresponding Member of the Romanian Academy, Romanian Academy - Timisoara Branch
16:30-18:00	Visit of the city center / Free time (optional)
18:00 – 20:00	Dinner