



Tuesday 5 July 2016. Thessaloniki, Greece

Nanomaterials and Bionanoscience in Japan-Europe Cooperation

Europe-Japan academic workshop for sharing ideas and experiences
towards strategic partnership building

Background and Objectives

The JEUPISTE project, (Japan-Europe Partnership in Innovation, Science and Technology, <http://www.jeupiste.eu>) is a 3-year EU funded project under the 7th Framework for Research, Technological Development and Demonstration of the European Commission.

Its aim is to advance the Europe-Japan cooperation in Science, Technology and Innovation. Academic workshops are one the activities of the JEUPISTE project and are dedicated to networking/twinning within research communities.

Nanomaterials: A strategic priority

Research and innovation in advanced materials is set as **a priority** by the 3rd Joint Committee on Scientific and Technological Cooperation between the EU and Japan as of May 2015.

Nanomaterials and bionanoscience are challenging areas where Europe and Japan can work together and develop common solutions, in particular in relation to characterisation, hazard assessment and medical applications.

The workshop

This workshop aims to enable networking and creation of partnerships for projects under Horizon 2020 and related bi-multi lateral programmes that can facilitate EU-Japan cooperation. This event will highlight the



current state of research in Europe and Japan on nanomaterials and bionanoscience and features on-going research in this field with potential significance for Europe-Japan cooperation.

The benefit of cooperation between Europe and Japan on this area is directly related to cooperation in the field nanotechnologies for **high-added value products, process industries, modelling, healthcare** and **energy applications**. Especially cooperation under Horizon 2020, activities will focus on process technologies and management of resources based on high performance nanotechnologies and advanced materials science with the aim of making processes "smarter", "cleaner" and "intelligent", contributing to the Circular Economy.

This workshop is organised as parallel event of Nanotexnology 2016: <http://www.nanotexnology.com/>

Organized by: The partners of the JEUIPSTE Project:

- EU-Japan Centre for Industrial Cooperation
- Foundation for Research & Technology – Hellas (FORTH)
- TÜBİTAK
- Kobe University

Venue: Hotel Porto Palace: Azurro room. Thessaloniki, Greece (as part of nanotexnology 2016)

Date: Tuesday 5 July 2016, between 15:00 – 18:30

Target audience: Researchers and R&D managers from public/private organizations in the field of Nanomaterials and Bionanoscience, ca. 40 participants in total

Language: English

Registrations: Mr. Stijn LAMBRECHT | E-mail: stijn.lambrecht@eu-japan.gr.jp

EU Japan Centre for Industrial Cooperation



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PROGRAMME	
14:30-14:35	Opening by the organizer
	Dr. Silviu JORA, General Manager, EU-Japan Centre for Industrial Cooperation
14:35-14:50	Introduction to the JEUISTE project and opportunities for EU-Japan cooperation
	Mr. Stijn LAMBRECHT, Project Manager, EU-Japan Centre for Industrial Cooperation
Part I: Setting the scene	
14:50-14:55	Introduction by the moderator
	Prof. Ken-ichi YOSHIDA, Kobe University
14:55-15:15	The status of Nanomaterials and Bionanoscience research in Japan
	Prof. Toru MAEKAWA, Director, Bio-Nano Electronics Research Centre Toyo University
15:15-15:35	The status of Nanomaterials and Bionanoscience research in Europe – Organic Electronics at Nanotechnology Lab LTFN & Center for Organic & Printed Electronics – Hellas (COPE-H)
	Dr. Argiris LASKARAKIS, Nanotechnology Lab LTFN, Aristotle University of Thessaloniki (AUTH)
15:35-15:45	Nanomedicine Applications & Organic Biosensors
	Dr. Varvara Karagkiozaki, Nanotechnology Lab LTFN, AUTH & BL NanoBioMed
15:45-15:55	Discussion
15:55-16:15	Coffee break
Part II: On-going research on Nanomaterials and Bionanoscience in Europe and Japan	
16:15-16:25	Introduction by the moderator
	Prof. Volkan OZGUZ, Director SU Nanotechnology Research and Application Center, Sabanci University
16:25-17:35	Japanese and European research projects will be presented with potential significance for Europe-Japan cooperation, each presenter has 10 minutes.
	ZnO nanostructures for energy, environmental and health applications
	Dr. Christos TSAMIS, Director of Research, Institute of Nanoscience & Nanotechnology, National Center for Scientific Research “Demokritos” (Greece)
	Flux Innovation as New Approaches to Materials Synthesis and Interface Design for All-Solid-State LIB
	Prof. Katsuya TESHIMA, Department of Environmental Science and Technology, Faculty of Engineering, Shinshu University (Japan)
	Large-scale micro-and nanofabrication technologies for bioanalytical devices based on

	Roll-2-Roll imprinting
	Dr. Stefan KOESTLER, MATERIALS – Institute for Surface Technologies and Photonics, Joanneum Research (Austria)
	Cancer therapy by combination inorganic nanoparticle and X-ray irradiation
	Prof. Chiaki OGINO, Department of Chemical Science and Engineering, Kobe University (Japan)
	From Nutrition to Nanomedicine- Application of Bioactive Flavonoids-Quercetin in Oncotherapy
	Dr. Simona LUPSEA, Perinatal Medicine Center of Excellence IMOGEN, Department of Genetics, County Emergency Hospital of Cluj-Napoca (Romania)
	Synthesis of Nanomaterials by chemical, solvothermal and pulsed plasma methods, characterizations, study of their properties and applications
	Dr. Zhyrgul ABDULLAEVA, Department of Materials Science and Engineering, Kumamoto University (Japan)
	Properties of 2D Materials and their nanocomposites: Production and characterization
	Dr. John PARTENIOS, Institute of Chemical Engineering Sciences, FORTH (Greece)
17:35-18:15	Discussion - Conclusions



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