



3d Workshop

NANOTECHNOLOGIES FOR 21st CENTURY

COOPERATION EVENT BETWEEN ALBANIA, JAPAN AND SPAIN

Tirana, Albania (October 6, 2022)

After the successful organisation of the previous two workshops in Tokyo in 2020 (www.1and2dm.com/2020/nanoworkshop.php) and in Tirana in 2021 (online for the Japanese colleagues

www.tntconf.org/2021/Files/2d_Workshop_Nanotechnologies_Albania_Japan_Spain_web.pdf) this 3d Workshop aims to keep the collaboration between the three countries, Albania, Japan and Spain in the field of Nanoscience and Nanotechnologies and their applications in important areas such as life sciences, information technologies and energy. Scientists and representatives from institutions of the three countries will share ideas about collaboration opportunities and research support programs in the research and development including cooperation with industry in the field of nanotechnology.

LOCATION: Palace of Congresses, Tirana, Albania

DATE: October 6, 2022

ORGANISERS:

Event organized by Phantoms Foundation (Spain) with the support from Spain of ICN2, CERCA, BIST, from Albania of NanoAlb, Academy of Sciences and from Japan of Univ. Keio, Univ. Tokyo and the embassies of Spain and Japan in Albania.

ORGANISING COMMITTEE

Antonio Correia (Phantoms Foundation, Spain) - Coordinator

Arben Merkoçi (ICN2, Spain) – Co-Coordinator

Pablo Ordejon (ICN2, Spain)

Yasuaki Einaga (Keio University, Japan)

Takashi Yamamoto (Keio University, Japan)

Majlinda Vasjari (NanoAlb, University of Tirana, Albania)

Kledi Xhaxhiu (NanoAlb, University of Tirana, Albania)

TENTATIVE PROGRAM

9.00-9:15 Welcome, Organizers & Representatives from the Embassies of Japan and Spain in Tirana



Spain

9.15-9:30 Prof. Clivia Sotomayor (ICN2, ICREA, Barcelona), “Characterisation methods for nanophononics”

9.30-09:45 Prof. Stephan Roche (ICN2, ICREA, Barcelona) Title to be sent

09.45-10:00 Prof. Sergio Valenzuela (ICN2, Barcelona) Title to be sent

10.00-10:15 Prof. Arben Merkoçi (ICN2, Barcelona) “Cost/efficient nanobiosensing platforms”

10.15-10:30 Prof. Arben Merkoçi (ICN2, Barcelona) Collaboration opportunities Albania, Japan, Spain

10.30-11:30 Brainstorming & Coffee break



Japan

11:30-11:45 Prof. Yuta Nishina (Research Core for Interdisciplinary Sciences, Okayama University), “Chemical functionalization of 2D carbons”

11:45-12:00 Prof. Gjergj Dodbiba (Department of Systems Innovation, The University of Tokyo), “Synthesis and Characterization of an MR fluid dispersing FeNbVB alloy nanoparticles particles in liquid gallium”

12:00-12:15 Prof. Toshinori Fujie (School of Life Science and Technology, Tokyo Institute of Technology), “Ultra-Flexible Electronics Interfacing Living Body”

12:15-12:30 Mr. Gent Imeraj (Institute of Integrated Science and Technology, Hosei University), “An effective manoeuvre in deep learning techniques to provide multiscale robustness for plant disease diagnosis”

12:30-12:45 Prof. Masahiro Shibuta (Graduate School of Engineering, Osaka Metropolitan University), “Spectroscopic and Microscopic Investigation of Ultrafast Electron Dynamics at Organic 2D Films”

12:45-13:00 Prof. Takashi Yamamoto (Department of Chemistry, Keio University), “Heterostructured 2D Magnetic Materials”

13.00-14:30 Lunch

Albania



14.30-14:45 Prof. Fetah Podvorica (NanoAlb, Prishtina University) “Attachment of polymers onto material surfaces via aryl diazonium salts”

14.45-15:00 Prof. Majlinda Vasjari (NanoAlb, Department of Chemistry, Faculty of Natural Sciences, University of Tirana) “Nanosensors: Carbon-based nano-structured composites for pharmaceuticals determination”

15.00-15:15 Prof. Kledi Xhaxhiu (NanoAlb, Department of Chemistry, Faculty of Natural Sciences, University of Tirana) “Nano and micro sensors for light and gases detection & mixed valence micro-needles as thermoelectric materials

15.15-15:30 Prof. Valbona Aliko (NanoAlb, Department of Chemistry, Faculty of Natural Sciences, University of Tirana) “Think big-Explore small: Studying nano-bio interactions using toxicological and computational approaches”

15.30-15:45 Prof. Partizan Malkaj (NanoAlb, Department of Physics Engineering, Polytechnic University of Tirana) “The use of DSC technique for membrane characterization applicable in industry”

15.45-16:00 Prof. Albana Ndreu Halili (NanoAlb, Western Balkan University, WBU), “Polymeric nano/microfibers in drug delivery systems”

16.00-16:15 Prof. Valbona Sota (NanoAlb, Department of Chemistry, Faculty of Natural Sciences, University of Tirana), “From micro-elicitation and detection of secondary metabolites on in vitro plants to

Round table/discussions/Closure of the workshop