



4th Workshop

NANOTECHNOLOGIES FOR 21st CENTURY

COOPERATION EVENT BETWEEN ALBANIA, JAPAN AND SPAIN

Tirana, Albania (October 19th, 2023)

This 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: NanoBalkan2023 will take place at Tirana International Hotel & Conference Centre.

City Center, Scanderbeg Square, Tirana, Albania

DATE: October 19, 2023

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

Ruslán Alvarez (ICN2, Spain)

Yasuaki Einaga (Keio University, Japan)

Majlinda Vasjari (NanoAlb, University of Tirana, Albania)

TENTATIVE PROGRAM

9.00-9:30 Welcome, Organizers & Representatives from the Embassies of Japan and Spain in Tirana



Spain

9:30-9:45 Prof. Jordi Sort (ICREA Research Professor Gnm3 Group, Physics Department Sciences Faculty, Building Cc Universitat Autònoma de Barcelona), “Recent developments on nitrogen magneto-ionics”

9:45-10:00 Dr. Alberto Escarpa (Department of Analytical Chemistry, Physical Chemistry, and Chemical Engineering Faculty of Sciences University of Alcalá) “Low-cost microfluidics and micromotors for (bio)sensing”

10:00-10:15 Prof. Lluís F. Marsal (Department of Electronic Engineering Universitat Rovira i Virgili) Advances in Nanoporous Anodic Alumina Engineering and Applications

10:15-10:30 Prof. Daniel Quesada (ICN2, Barcelona) "Lateral Flow Assays Beyond Diagnosis"

10:30-11:30 Brainstorming & Coffee break



Japan

11:30-11:45 Prof. Yasuaki Einaga (Keio University), "Electrochemical application of boron-doped diamond electrodes"

11:45-12:00 Prof. Yuta Nishina (Okayama University), "Liquid-phase production of 2D nanocarbons and their application"

12:00-12:15 Prof. Kazuya Nakata (Tokyo University of Agriculture and Technology), "Applications of Photocatalysis"

12:15-12:30 Dr. Takeshi Watanabe (Aoyama Gakuin University), "Porous cellulose-assisted transfer of CVD graphene toward bioanalytical applications"

12:30-12:45 Prof. Genki Ogata (Keio University), "In vivo Real time measurements by BDD microelectrodes"

12:45-14:30 Lunch

Albania



Albania

14:30-14:45 Prof. Fetah Podvorica (NanoAlb, Prishtina University) "Reinforcement of carbon fibers with aryl layers"

14:45-15:00 Prof. Nevila Broli (NanoAlb, Department of Chemistry, Faculty of Natural Sciences, University of Tirana) "The application of carbon-based nanostructures for the development of antibiotic sensors"

15:00-15:15 Prof. Kledi Xhaxhiu (NanoAlb, Department of Chemistry, Faculty of Natural Sciences, University of Tirana) "The influence of nano-modifiers on the extractive and determination properties of the carbon paste electrode in voltammetric stripping"

15:15-15:30 Prof. Valbona Aliko (NanoAlb, Department of Chemistry, Faculty of Natural Sciences, University of Tirana) "Shedding Light on Nanotoxicity: from NPs to Cellular Consequences"

15:30-15:45 Prof. Ariola Bacu (Department of Biotechnology, University of Tirana, Albania) "Coupling of physical-biological indicators with biosensing of toxicity/genotoxicity could represent a better monitoring approach for the quality of marine and fresh waters in Albania"

Round table/discussion/Closure of the workshop