TENTATIVE PROGRAM (as of 09/03/2018)


TUESDAY (13/03/2018)

08:00 – 09:00: Registration

09:00 – 09:15: Imaginenano2018 Opening Ceremony - Welcome and Introduction.

09:15 – 10:00: Pedro Miguel Echenique (DIPC, Spain)  
Surface Attophysics

10:00 – 10:45: Avelino Corma (ITQ – CSIC / UPV, Spain)  
Nanopores such as molecular sieves, catalysts and containers

10:45 – 11:30: Coffee Break / Poster Session & Exhibition

11:30 – 12:00: Remi Carminati (Langevin Institute - ESPCI, France)  
Probing mode connectivity in photonics using two classical or quantum nanosources

12:00 – 12:15: Martin Lopez Garcia (International Iberian Nanotechnology Laboratory, Portugal)  
Photosynthetic photonic crystals: photonic aspects of the ultimate light harvesting process in nature

12:15 – 12:30: Nicolas Ubrig (University of Geneva, Switzerland)  
Microscopic Origin of the Valley Hall Effect in Transition Metal Dichalcogenides

12:30 – 12:45: Camilla Dore (ICMAB, Spain)  
Cellulose based photonic architectures

12:45 – 13:00: María Ujué González (Instituto de Micro y Nanotecnología, IMN-CN, CSIC, Spain)  
Photonic applications of nanocolumnar Au films obtained by glancing angle deposition with magnetron sputtering

13:00 – 14:30: Lunch

14:30 – 15:00: Javier Aizpurua (CSIC-UPV/EHU, Spain)  
Driving Plasmon-Enhanced Molecular Spectroscopy to the Atomic Scale

15:00 – 15:30: Peter Koval (DIPC, Spain)  
Title to be defined

15:30 – 15:45: Tânia Ribeiro (Instituto Superior Técnico, Portugal)  
Incorporation of plasmonic nanoparticles in organic photovoltaic solar cells

15:45 – 16:00: Nerea Zabala (UPV/EHU, Spain)  
Plasmonic nanoantennas for nanometer, picosecond control of VO2 phase-transition

16:00 – 16:15: Jon Lafuente-Bartolome (University of the Basque Country (UPV/EHU), Spain)  
Spin plasmons at surfaces with strong spin-orbit coupling

16:15 – 17:15: Coffee Break / Poster Session & Exhibition
WEDNESDAY (14/03/2018)

09:00 – 09:30: Jouni Ahopelto (VTT, Finland)  
Nanostructures for Phononics

09:30 – 10:00: Daniel Lanzillotti Kimura (C2N-CNRS, France)  
Ultrahigh Frequency Phononics and Mechanics

10:00 – 10:15: Omar Ortiz (C2N, France)  
Nonphononic Potentials Based on Band Engineering

10:30 – 11:00: Soren Stobbe (Technical University of Denmark, Denmark)  
Exciton-phonon interaction in coupled quantum wells: optical refrigeration and optomechanics

11:00– 11:30: Coffee Break / Poster Session & Exhibition

11:30 – 12:00: Ewold Verhagen (AMOLF, The Netherlands)  
Nonlinear and pulsed optomechanical measurement in sliced photonic crystal nanobeams

12:00 – 12:30: Daniel Navarro-Urrios (ICN2, Spain)  
Nonlinear dynamics and chaos in Optomechanical nanobeams

12:30 – 13:00: Clivia Sotomayor Torres (ICREA/ICN2, Spain)  
Phonon-mediated Nanoscale Thermal Transport

13:00 – 14:30: Lunch (offered by the organization)

14:30 – 15:00: Alessandro Pitanti (NEST, CNR-Nano, Italy)  
Silicon nitride membranes: jack of all electromechanical trades

15:00 – 15:15: Daniel Torrent (Universitat Jaume I, Spain)  
Control of Lamb Waves by Phononic Plates

15:15 – 15:30: Alvaro Blanco (Instituto de Ciencia de Materiales de Madrid, Spain)  
Tunable Fano Resonances in Colloidal Photonic Structures

15:30 – 15:45: Pau Molet (ICMAB, Spain)  
Ultrathin Semiconductor Superabsorbers from the Visible to the Near Infrared

15:45 – 16:00: Guillermo Arregui Bravo (ICN2, Spain)  
Anderson co-localization in GaAs/AlAs superlattices

16:00– 16:30: Coffee Break / Poster Session & Exhibition

16:30 – 17:00: Luis Liz-Marzan (CIC Biomagune, Spain)  
Sharpening Plasmon Resonances in Gold Nanorods

17:00 – 17:15: Cristiano Matricardi (Instituto de Ciencia de Materiales de Barcelona, Spain)  
Gold Nanoparticle-based supercrystals as Surface Enhanced Raman Scattering (SERS) substrates

17:15 – 17:30: Alessandro Principi (School of Physics and Astronomy, UK)  
Low-loss bulk and edge plasmons in graphene heterostructures – a theoretical study

17:30 – 18:00: Liberato Manna (IIT, Italy)  
Halide Perovskites Nanocrystals: Synthesis, Transformations and their Application in Devices

18:00 – 18:30: Adi Salomon (Bar-Ilan University, Israel)  
Nanoporous Metallic Networks: A New Class of Materials

18:30 – 19:00: Kelly Doron (Bar-Ilan University, Israel)  
Halide Perovskites: Recent Advances and Challenges

19:00 – 20:00: Coffee Break / Poster Session & Exhibition

20:00 – 21:00: Networking Dinner (offered by the organization)
THURSDAY (15/03/2018)

09:00 – 09:30: Alexander Kotlyar (Tel Aviv University, Israel)  
Selective Photoinduced Eradication of Cancer Cells by DARPin-Gold Nanoparticle Conjugates

09:30 – 10:00: Uri Sivan (Technion - Israel Institute of Technology, Israel)  
The Last Nanometer – Deep Look into the Hydration Structure of DNA and Solid Surfaces Using Ultra-High Resolution AFM

10:00 – 10:15: Raffaele Caroselli (Nanophotonics Technology Center, UPV, Spain)  
In-flow and in-continuum refractive index sensing using a highly sensitive porous silicon ring resonator

10:15 – 10:30: David Martin-Sanchez (NTC-UPV, Spain)  
Development and experimental study of a porous silicon fiber-optic temperature sensing probe

10:30 – 10:45: Ángela Ruiz Tórtola (Nanophotonics Technology Center, UPV, Spain)  
Photonic Bandgap Biosensing Structures Biofunctionalized with Molecular Beacon Probes

10:45 – 11:30: Coffee Break / Poster Session & Exhibition

11:30 – 12:00: Maya Bar-Sadan (Ben-Gurion university of the Negev, Israel)  
Correlating the Structure of 2D Materials with Their Catalytic Activity

12:00 – 12:30: Juan Carlos Cuevas Rodriguez (UAM, Spain)  
Super-Planckian Far-Field Radiative Heat Transfer

12:30 – 13:00: Francisco J. García Vidal (UAM, Spain)  
Polaritons for Chemistry and Materials Science

13:00: Closing