



Boa Viagem Beach, Recife
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ICNP | 10th International 2017 | Conference on Nanophotonics

July 02-05, 2017 | Recife-PE - Brazil

***FINAL PROGRAM
Short Version***

Sponsors



Dear ICNP Participant,

As the kick-off for the 10th ICNP is approaching, we would like to welcome you to Recife this coming July 2nd. The final scientific program- short version - is ready for you to download. Starting with two Tutorials on subjects of recent scientific and technological developments, it will go on with plenary, keynote and invited talks by high level scientists from several parts of the world. The contributed talks and poster sessions will complement the scientific program. We would like to highlight the special session on Education and Science, as well as the best papers (oral and posters) prizes sponsored by OSA, SPIE and ACS NANO. Finally, do not miss the banquet, where the Provost from The University of Buffalo will deliver a speech, which will be preceded by a boat-trip in the Capibaribe River, going by several of the beautiful Recife bridges.

I hope you will enjoy the 10th ICNP in Recife.

Conference Chairs

SUNDAY, JULY 2nd	
10:00 - 18:00	REGISTRATION • Mezzanine
15:30 – 16:00	Welcome Coffee – Just before Tutorial

TUTORIALS • Room A • Chair: Anderson Gomes	
16:00 - 17:00	SuT-1 • Joseph Haus, University of Dayton, USA Fundamentals of Nanophotonics: Fabrication, Characterization and Materials
17:00 - 18:00	SuT-2 • Thomas Krauss, University of York, UK Photonic Crystals and Metasurfaces
Dinner on your own	

MONDAY, JULY 3rd

10:00 – 18:00	REGISTRATION • Mezzanine	
	Opening Section – Plenaries • Room A • Chair: Anderson Gomes, UFPE, Brazil	
08:30 – 09:00	Opening Ceremony	
09:00 – 09:45	MoPT-1 • Eric Mazur, Harvard University, USA The surprising world of nanostructured composites with zero refractive index	
09:45 – 10:30	MoPT-2 • Paras N. Prasad, SUNY at Buffalo, USA Nanophotonics Control of Excitation Dynamics: Sensing, Imaging and Neurophotonics Applications	
10:30 – 11:00	GROUP PHOTO and Coffee Break	
	Session MoA1 • Room A • Chair: Chennupati Jagadish	Session MoB1 • Room B • Chair: Ventsislav Valev
11:00 – 11:35	MoA1-1 • Keynote • Richard Vaia, AFRL, USA From the Beaker to an Engineering Platform: Aligning Plasmonic Nanoparticle Architectures	MoB1-1 • Keynote • Young Hee Lee, SKKU, Korea Tunable Optical-electrical Properties in 2D Semiconductors and Their Optoelectronic Applications
11:35 – 11:50	MoA1-2 • Leonardo de F. Araújo, PUC-RJ, Brazil Study on the Dynamics of Gold Nanorods Electric Field Alignment in a 2-states Model	MoB1-2 • Saad Fadhil Ramadhan, Univ. of Exeter, UK Fast and Highly Sensitive Ionic Polymer Gated WS ₂ -graphene Photodetectors
11:50 – 12:05	MoA1-3 • Anderson M. Amaral, UFPE, Brazil Non-perturbative Nonlinear Refraction of Carbon Disulfide	MoB1-3 • Youngjo Jin, SKKU, Korea Different Defect Formation in Single-crystalline WS ₂
12:05 – 12:30	MoA1-4 • Invited • Cleber Mendonça, IFSC/USP, Brazil Nonlinear Optics and Microstructures	MoB1-4 • Invited • Christiano de Matos, Mackenzie, Brazil Linear and Nonlinear Optics in Two-dimensional Materials
12:30 – 14:00	LUNCH	
	Session MoA2 – Room A • Chair: Marek Samoc	Session MoB2 – Room B • Chair: Denize Zzell
14:00 – 14:35	MoA2-1 • Keynote • Mark T. Swihart, SUNY at Buffalo, USA Recent Advances in the Synthesis, Interconversion, and Applications of Plasmonic Semiconductor Nanoparticles	MoB2-1 • Keynote • Andrei V. Kabashin, Aix Marseille University, France Novel Advanced Plasmonic Metamaterials for Ultrasensitive Biosensing
14:35 – 15:00	MoA2-2 • Invited • Anderson Gomes, UFPE, Brazil Managing Nanomaterials for Random Laser Applications	MoB2-2 • Invited • Thomas Krauss, University of York, UK Nanophotonic Biosensors
15:00 – 15:15	MoA2-3 • Niklaus U. Wetter, IPEN, Brazil Optimized Grain Size Distributions for Maximum Efficiency in Neodymium Doped Powder Random Lasers	MoB2-3 • Marli L. de Moraes, UNIFESP, Brazil Immunosensor for Detection of the Bacterium Methicillin-resistant Staphylococcus Aureus (MRSA)
15:15 – 15:30	MoA2-4 • Molíria V. dos Santos, IQ/UNESP, Brazil Silk Fibroin Biopolymer as a Biotemplate to Design Nanostructured Materials for Random Laser Applications.	MoB2-4 • Viviane P. dos S. Jesus, UNIVAP, Brazil Bifunctional Nanoprobes Applied to Photodynamic Therapy Based Breast Cancer Treatment
15:30 – 15:55	MoA2-5 • Invited • Joseph Haus, University of Dayton, USA Nonlinear Optical Probes of Metal-Insulator-Metal Structures at the Nanoscale	MoB2-5 • Invited • Haichun Liu, KTH, Sweden Photon Upconversion Dynamic Nanosystems and their Optical Response
15:55 – 16:20	MoA2-6 • Invited • Euclides Almeida, Weizmann, Israel Nanostructured Materials as the New Playing Field for Nonlinear Optics	MoB2-6 • Invited • Timothy Tan, NTU, Singapore Ultrasmall-Superbright Lanthanide Upconversion Nanoparticles
16:20 – 18:20	Coffee Break and Poster Session	
18:20 – 20:00	OPENING COCKTAIL	

TUESDAY, JULY 4th

10:00 - 18:00	REGISTRATION • Mezzanine	
	Plenaries • Room A • Chair: Celso Melo, UFPE, Brazil	
08:30 - 09:15	TuPT-1 • Paul S. Weiss, UCLA, USA Global Opportunities in Nanoscience and Nanotechnology	
09:15 - 10:00	TuPT-2 • Cid B. de Araújo, UFPE, Brazil Nonlinearity Management of Plasmonic Nanocomposites	
10:00 - 11:00	Coffee Break	
	Session TuA1 • Room A • Chair: Christiano Matos	Session TuB1 • Room B • Chair: Rich Vaia
11:00 - 11:35	TuA1-1 • Keynote • Pallab Bhattacharya, University of Michigan, USA Monolithic GaN/InN/InGaN Nanowire Diode Lasers and Photonic Integrated Circuits on (001) Silicon	TuB1-1 • Keynote • Teri W. Odom, Northwestern University, USA Collective Nanoparticle Optics
11:35 - 11:50	TuA1-2 • Hao Wu, ZJU, China Waveguiding Subwavelength-diameter Nanofiber on an Au Substrate	TuB1-2 • David C. Hooper, Univ. of Bath, UK Rotational Anisotropies in Nonlinear Chiral Metamaterials
11:50 - 12:05	TuA1-3 • Marcelo Nalin, IQ/UNESP, Brazil Microfabrication of Waveguides in Ag-doped Fluorophosphate Glasses Using Femtosecond Laser	TuB1-3 • Emmanuel Benichou, Univ. Lyon 1, France Molecular Organization and Chirality in Thin Films Investigated by Nonlinear Optics
12:05 - 12:30	TuA1-4 • Invited • Leonardo de S. Menezes, UFPE, Brazil Optically Detected Magnetic Resonance with Nanodiamonds containing single Nitrogen-vacancy defects	TuB1-4 • Invited • Ventsislav K. Valev, University of Bath, UK Nonlinear Chiroptical Effects in Plasmonic Nanomaterials
12:30 - 14:00	LUNCH	
	Session TuA2- Room A • Chair: Jake Fontana	Session TuB2- Room B - Chair: Cid B. de Araújo
14:00 - 14:35	TuA2-1 • Keynote • Marcos Pimenta, UFMG, Brazil Raman Spectroscopy in Novel 2D Materials	TuB2-1 • Keynote • Marek Samoc, WUST, Poland Coordination Polymers and Metal-organic Frameworks as New Materials for Nanophotonics
14:35 - 15:00	TuA2-2 • Invited • Alex Gaeta, Columbia University, USA Chip-Based Quantum Random Number Generator	TuB2-2 • Invited • Celso P. de Melo, UFPE, Brazil Tuning the Dual Fluorescence of Leucoemeraldine Chains by Controlling their Self-assembly on Gold Nanoparticles
15:00 - 15:15	TuA2-3 • K. Hewitt, Dalhousie University, Canada Surface-enhanced Stimulated Raman Spectroscopy Using Pulsed And, for the First Time, CW Sources	TuB2-3 • Viviane Pilla, UFU, Brazil Spectroscopic Characterization of Fluorescein-amino Acid Based Ligands: Gold Nanoparticle Application
15:15 - 15:30	TuA2-4 • Ernesto Jimenez-Villar, UFPE, Brazil Laser Action at The Critical Regime of Localization	TuB2-4 • Danilo Manzani, UEL, Brazil Flexible Polysiloxane-based Luminescent Materials Containing Europium Complex for Photonic Applications
15:30 - 15:55	TuA2-5 • Invited • Lauro Maia, UFG, Brazil Nanocrystalline borate materials: Optical applications	TuB2-5 • Invited • H. Volkan Demir, Bilkent University, Turkey Semiconductor Nanocrystal Optoelectronics: from Colloidal Quantum Dots to Wells
15:55 - 16:20	TuA2-6 • Invited • Edilson L. F. Filho, UFPE, Brazil Multiwavelength emissions based on high-order nonlinearities and parametric processes in dielectric nanocrystals	TuB2-6 • Invited • Luciana Kassab, FATEC, Brazil Enhanced optical performance of metal-dielectric nanocomposites based on tellurite and germanate glasses
16:20 - 17:00	Coffee Break	
17:00 - 18:00	Special Section on Science and Education “Innovating education to educate innovators” - Eric Mazur - Harvard University, USA	

WEDNESDAY, JULY 5th

10:00 - 12:00	REGISTRATION • Mezzanine
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Plenaries • Room A • Chair: Joe Haus, University of Dayton, USA	
08:30 - 09:15	WePT-1 • Kazuaki Sakoda, NIMS, Japan Photonic Dirac cones and relevant physics
09:15 - 10:00	WePT-2 • Michal Lipson, Columbia University, USA Next Generation of Silicon Photonics
10:00 - 11:00	Coffee Break

Session WeA1 • Room A • Chair: Marcos Pimenta		Session WeB1 • Room B • Chair: Andrei Kabashin	
11:00 - 11:35	WeA1-1 • Keynote • Chennupati Jagadish, ANU, Australia Semiconductor Nanowires for Optoelectronics Applications	11:00 - 11:35	WeB1-1 • Keynote • Marina S Leite, University of Maryland, USA Metallic Alloys with on-demand Optical Response: From Thin Films to Nanostructures
11:35 - 11:50	WeA1-2 • Jue Gong, ZJU, China Water-cooled Nanowire Laser	11:35 - 11:50	WeB1-2 • Jorge A. de M. Delezuk, IQ/UNESP, Brazil Light-driven Micro/nanomotors
11:50 - 12:05	WeA1-3 • Liangrid L. Silva, ITA, Brazil Study of Electric Field Intensity on Central Gap in Dipole Micro/nano Antennas Operating in 29.9 THz	11:50 - 12:05	WeB1-3 • José L. Bezerra Jr., UFPE, Brazil Order-disorder effects in guanine photonic crystal: the lateral strip iridescence on living and dead Paracheirodon Genus fishes
12:05 - 12:30	WeA1-4 • Invited • Jake Fontana, NRL, USA Programmable Infrared Plasmonic Nanoantennas via Directed Assembly	12:05 - 12:30	WeB1-4 • Invited • Omer Yaffe, Weizmann, Israel Hybrid Halide Perovskites-Not Just Solar Cells

12:30 - 14:00	LUNCH
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Session WeA2- Room A • Chair: Claudia Mota		Session WeB2- Room B • Chair: Isabel Carvalho	
14:00 - 14:25	WeA2-1 • Invited • Shenfei Zong, Southeast University, China Cancer Theranostics Using Optical Nanoprobes	14:00 - 14:25	WeB2-1 • Invited • Renato E. de Araújo, UFPE, Brazil Nanoparticles for Dental Multimodal Optical Imaging
14:25 - 14:40	WeA2-2 • Chanchal Hazra, IQ/UNESP, Brazil 'Biocompatible NIR-II Dye'-Sensitized Core/Active Shell Upconversion Nanoparticles	14:25 - 14:40	WeB2-2 • Sajjad Ullah, Univ. of Peshawar, Pakistan Phase and shape-controlled synthesis of NaYF ₄ : Yb ₃₊ /Tm ₃₊ NIR-to-UV/vis upconversion particles for the design of UV/NIR-active TiO ₂ -based photocatalysts
14:40 - 14:55	WeA2-3 • Carla R. Fontana, FCF/UNESP, Brazil Targeted Methylene Blue-containing Polymeric Nanoparticle for Chronic Periodontitis in Vivo	14:40 - 14:55	WeB2-3 • Hernane da S. Barud, UNIARA, Brazil Luminescent Silk Fibroin Scaffolds Containing Organotin Compounds
14:55 - 15:20	WeA2-4 • Invited • Martha Simões Ribeiro, IPEN, Brazil Nanoparticle-based Antimicrobial Photodynamic Therapy	14:55 - 15:20	WeB2-4 • Invited • Beate S Santos, UFPE, Brazil Quantum Dots: Efficient Nanotools for Bioimaging
15:20 - 15:40	Coffee Break		

17:00	Departure to Boat Tour - Capibaribe River / Recife Bridges
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17:30 - 22:00	Boat tour, followed by Banquet - Student Award (OSA, SPIE and ACS NANO) - Special Speech by Dr. Charles F. Zukoski - Provost, The University of Buffalo, USA.
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