

**International Conference on Nanoscience and Technology
(ICONSAT 2016)
29th February to 2nd March 2016**

Programme

Day 1: 29th February 2016 Monday

07:00 - 09:00	Registration	
09:00 - 09:30	Inauguration	
09:30 - 10:30	Chair: Ajay Sood Keynote Lecture: C. N. R. Rao (JNCASR, Bangalore) <i>Borocarbonitrides</i>	
10:30 - 10:40	Photograph	
10:40 - 11:00	Tea Break	
11:00 - 11:45	Chair: D. D. Sarma C. V. Raman Auditorium, PL-1: Uri Banin (The Hebrew University of Jerusalem, Israel) <i>Semiconductor nanocrystals and hybrid metal-semiconductor nanoparticles: From basic science to applications</i>	
Parallel Session	C. V. Raman Auditorium Chair: Young Lee	LHC 101 Chair: Umesh Waghmare
11:45 - 12:15	IL-1: Chengzhong Michael Yu (The University of Queensland, Australia) <i>Hollow structuring and beyond: Engineering "nothing" for "something"</i>	IL-4: Abhay Shukla (UPMC University of Paris, France) <i>Onset of two-dimensional superconductivity in space charge doped few-layer MoS₂</i>
12:15 - 12:45	IL-2: G. U. Kulkarni (JNCASR and CeNS, Bangalore) <i>Nobler than the noblest: non-FCC gold crystallites</i>	IL-5: Goutam Sheet (IISER, Mohali) <i>Superconductivity and multiple Andreev reflection at nano-scale junctions on the 3D Dirac semimetal Cd₃As₂</i>
12.45 - 13:15	IL-3: T. Pradeep (IIT, Madras) <i>Inter-cluster reactions between atomically precise noble metal clusters</i>	IL-6: Arindam Ghosh (IISc, Bangalore) <i>Origin of electrical noise in two dimensional semiconductor devices</i>
13.15 - 15:30	Lunch & Poster Session-I (P1-120)	

14:00 - 15:30	C. V. Raman Auditorium, Nano for Students Program C. N. R. Rao (JNCASR, Bangalore): <i>Nano excitements</i> Ajay Sood (IISc, Bangalore): <i>Carbon in nano-avatars</i> D. D. Sarma (IISc, Bangalore): <i>A colourful nano talk</i> G. U. Kulkarni (JNCASR and CeNS, Bangalore): <i>Make your own touchscreen</i> K. N. Ganesh (IISER Pune): <i>Nanomedicine</i> <i>Questions and Answers</i>	
Parallel Session	C. V. Raman Auditorium Chair: Chengzhong Michael Yu	LHC 101 Chair: Krishna N. Ganesh
15:30 - 16:00	IL-7: K. George Thomas (IISER, Thiruvananthapuram) <i>Exciton across interface: Tuning the optical properties of hybrid quantum structures</i>	IL-10: Amlan J. Pal (IACS, Kolkata) <i>Characterization of lower-dimensional materials through Scanning Tunneling Spectroscopy: Solar cell applications</i>
16:00 - 16:30	IL-8: T. P. Radhakrishnan (Univeristy of Hyderabad, Hyderabad) <i>Polymer - Metal/bimetal nanocomposite thin films: Unique aspects of in situ fabrication and applications</i>	IL-11: Hirendra N. Ghosh (BARC, Mumbai) <i>Ultrafast exciton dynamics in alloy and doped-alloy quantum dot materials: Implication in solar cell</i>
16:30 - 17:00	IL-9: Ram B. Gupta (Virginia Commonwealth University, Richmond, USA) <i>Clean energy for a growing and prospering world</i>	IL-12: Arindam Chowdhury (IIT, Bombay) <i>Spatiotemporal heterogeneity in optoelectronic behaviors of doped hybrid perovskites micro-/nano-crystals</i>
17:00- 17:30	Tea Break	
17:30-18:15	Chair: Uri Banin C. V. Raman Auditorium, PL-2: Andrew Wee (National University of Singapore, Singapore) <i>STM/STS studies of 2D Van der Waals heterointerfaces</i>	
18:15-19:00	C. V. Raman Auditorium, PL-3: Ritesh Agarwal (University of Pennsylvania, Philadelphia, USA) <i>Novel classical and quantum photonic devices by manipulating light-matter interactions in low-dimensional systems</i>	
20:00 - 22:00	Banquet Dinner	

Day 2: 1st March 2016 Tuesday

09:30 - 10:15	Chair: Andrew Wee C. V. Raman Auditorium, PL-4: Ajay Sood (IISc, Bangalore) <i>Carrier dynamics in nanosystems: Time-resolved ultrafast spectroscopy</i>	
10:15 - 11:00	C. V. Raman Auditorium, PL-5: Young Lee (Sungkyunkwan University, South Korea) <i>Unique features of 2D-layered materials</i>	
11:00 - 11:30	Tea Break	
Parallel Session	C. V. Raman Auditorium Chair: T. Pradeep	LHC 101 Chair: K. George Thomas
11:30 - 12:00	IL-13: Ashok K. Ganguli (INST, Mohali) <i>Design of visible light active core/shell nanostructures</i>	IL-16: Ashok M. Raichur (IISc, Bangalore) <i>Hyaluronic based nanocapsules for targeted delivery of anticancer agents</i>
12:00 - 12:30	IL-14: D. D. Sarma (IISc, Bangalore) <i>An alternate route to photoluminescence: Making defects useful in semiconductor nanocrystals</i>	IL-17: Biju V. Pillai (Hokkaido University, Sapporo, Japan) <i>Quantum dots for single-molecule bioimaging: Challenges and prospects</i>
12.30 - 13:00	IL-15: Vijayamohan K. Pillai (CECRI, Karaikudi) <i>N doped Graphene: Electrochemical preparation, characterization and applications for energy storage</i>	IL-18: Rinti Banerjee (IIT, Bombay) <i>Trigger responsive lipid and lipopolymeric nanoparticles for drug delivery</i>
13.00 - 15:30	Lunch & Poster Session-II (P121-240)	
15:30 - 16:15	Chair: Ritesh Agarwal C. V. Raman Auditorium, PL-6: Clément Sanchez (Collège de France, Paris, France) <i>Integrative Materials Chemistry: From Nanostructures to Hierarchical structures</i>	
16:15 - 16:45	Tea Break	
Parallel Session	C. V. Raman Auditorium Chair: Clément Sanchez	LHC 101 Chair: Abhay Shukla
16:45 - 17:15	IL-19: S. Sampath (IISc, Bangalore) <i>Nanomaterials as electrocatalysts: Transition metal nitrides, carbides and chalcogenides for electrochemical energy systems</i>	IL-22: Umesh Waghmare (JNCASR, Bangalore) <i>Theoretical predictions of novel structures, phenomena and functionality in 2-D materials</i>

17:15 - 17:45	IL-20: Satishchandra Ogale (IISER, Pune) <i>Nanostructures for efficient energy harvesting and charge storage</i>	IL-23: Swapan K. Pati (JNCASR, Bangalore) <i>Quantum dots and molecular electronics in weak coupling limit</i>
17:45 - 18:15	IL-21: Krishna N. Ganesh (IISER, Pune) <i>Formation of Nanoparticles directed by lipids and fluorolipids conjugated to peptides and peptide nucleic acids</i>	IL-24: G. V. Pavan Kumar (IISER, Pune) <i>Plasmonics at single-molecule and single-nanostructure limits</i>
19:30 - 21:30	Dinner	
Day 3: 2nd March 2016 Wednesday		
Parallel Session	C. V. Raman Auditorium Chair: Swapan K. Pati	LHC 101 Chair: S. Sampath
09:30 - 10:00	IL-25: Pushan Ayyub (TIFR, Mumbai) <i>Experimental realization of a two-phase composite nanoglass</i>	IL-28: Maksym Kovalenko (ETH Zürich, Switzerland) <i>Colloidal nanocrystals of cesium lead trihalide perovskites</i>
10:00 - 10:30	PL-26: S. M. Shivaprasad (JNCASR, Bangalore) <i>Nano-structuring of GaN for enhancement of light generation and extraction</i>	IL-29: Narayan Pradhan (IACS, Kolkata) <i>Architecting complex nanostructures in reaction flask</i>
10:30 - 11:00	IL-27: Angshuman Nag (IISER, Pune) <i>Plasmonic and Magnetically Doped Colloidal Metal Oxide Nanocrystals</i>	IL-30: Maya Bar Sadan (Ben Gurion University of the Negev, Israel) <i>Inorganic photocatalysts: The correlation of atomic-scale structure and functionality</i>
11:00 - 11:30	Tea Break	
Parallel Session	C. V. Raman Auditorium Chair: G. U. Kulkarni	LHC 101 Chair: Sulabha Kulkarni
11:30 - 12:00	IL-31: Mandar M. Deshmukh (TIFR Mumbai) <i>Nanomechanics with graphene drums in the strong-coupling regime</i>	IL-34: S. Swaminathan (Sastra University, Thanjavur) <i>Nanomaterials in regenerative medicine & drug delivery</i>
12:00 - 12:30	IL-32: Deepa Khushalani (TIFR, Mumbai) <i>Hollow nanotubes for drug delivery applications</i>	IL-35: Guruswamy Kumaraswamy (NCL Pune) <i>Rational control of the architecture of nanostructured lipid mesophases</i>

12:30 - 13:00	IL-33: Priya Mahadevan (<i>S. N. Bose National Centre for Basic Sciences, Kolkata</i>) <i>What drives the direct to indirect band gap transition in MoX₂ (X=S,Se)?</i>	IL-36: Thomas Pucadyil (<i>IISER, Pune</i>) <i>Membrane fission: Diverse players and mechanisms</i>
13:00 - 15:30	Lunch & Poster Session-III (P241-366)	
Parallel Session	C. V. Raman Auditorium Chair: Satishchandra Ogale	LHC 101 Chair: Maksym Kovalenko
15:30 -16:00	IL-37: Kanishka Biswas (<i>JNCASR, Bangalore</i>) <i>Origin of ultra-low thermal conductivity in complex chalcogenides: Effect of lone pair, anharmonic rattling and bonding asymmetry</i>	IL-39: M. M. Shaijumon (<i>IISER, Thiruvananthapuram</i>) <i>Controllable synthesis of two-dimensional layered nanomaterials</i>
16:00 - 16:30	IL-38: Vivek Polshettiwar (<i>TIFR, Mumbai</i>) <i>Fibrous Nano-Silica (KCC-1) based hybrid nanomaterials for catalysis, photocatalysis, CO₂ capture and conversion</i>	IL-40: M. Jayakannan <i>Block copolymer nano-assemblies for cisplatin delivery in cancer treatment</i>
16:30 - 17:00	Valediction	