



# International Conference on NANO IN ENGINEERING, SCIENCE AND TECHNOLOGY (i-NEST)



October 11-13, 2019

Organised by Vellore Institute of Technology, Vellore

Vellore – 632 014, Tamil Nadu, India.

www.vit.ac.in

## **VENUE DETAILS**

Anna Auditorium - Behind Main Building

Gallery – I - Technology Tower (TT)-Ground Floor (028 &029)

TBI Smart Class Room - Technology Tower (TT)-Ground Floor

TT 311 & TT 312 - Technology Tower (TT)-Third Floor

Greenos & Foodys - Adjacent to Hexagon Building

## **Conference Themes**

Track- I: Advanced Nanomaterials (ANM)

Track- II: Nano-Agriculture (AGR)

Track-III: Nano-Biotechnology (BIO)

Track-IV: Nano-Medicine (MED)

Track-V: Nano-Energy and Environment (ENR)

Track-VI: Nano-Electronics (ELE)

Track-VII: Nano-Manufacturing (MAN)

Track-VIII: Nano-Defense and Security (DEF)

#### **International Conference on**

## Nano in Engineering, Science and Technology (iNEST)

# 11 -13, October 2019

#### iNEST - PROGRAMME SCHEDULE

Timing			Venue
		DAY – I (11.10.2019)	
0800 - 0930	Registration		Main Building Reception
1000 – 1130	Inaugural Function		Anna Auditorium
1145 – 1200	Conference Introduction		TT Gallery-1 (028-029)
1200 – 1300	Plenary Talk- I	Plenary speaker: Dr. Seeram Ramakrishna, NUS, Singapore Title: Nanotechnology and Smart Wearables Chair: Prof. Nageswar Rao, VIT, Vellore	TT Gallery-1 (028-029)
1300 - 1400		Lunch	
1400 – 1445	Keynote Talk – I	Chair: Prof. R. Vijayaraghavan, VIT, Vellore Keynote Speaker: Dr. John Kennedy, GNS Science, New Zealand Title: Indirect Surface Nano-Pattering of Thermoelectric Films by ION Bean Sputtering	TT Gallery-1 (028-029)
1445 - 1515	Invited Talk - I	Invited Speaker: Prof. Sitaram Dash, (Ex-Scientist, IGCAR, Kalpakkam), VIT, Vellore Title: Nanomaterials for Sensor Applications	TT Gallery-1 (028-029)

1515–1545	Invited Talk – II	Invited speaker: Dr. T.P. Sastry, Ex-Principal Scientist, CLRI, Chennai, Bioregen Technologies, Chennai.  Title: Biomaterials and Nano Biomaterials-Invention to Application	TT Gallery-1 (028-029)	
1545 – 1600		Tea Break		
1600 – 1645	Invited Talk – III	Invited Speaker: Dr. Seena V, Dept of Avionics, IIST, Trivandrum Title: Polymer MEMS with Integrated Ceramic Thin Films: An Ultrasensitive Platform for Environmental Sensing	TT Gallery-1 (028-029)	
1645 – 1730	Technical Talk ANM– I	Advanced Nanomaterials: Abstract No – TP19ANM004, 006, 009	TT Gallery-1 (028-029)	
1645 – 1730	Technical Talk BIO– I	Nano BioTechnology: Abstract No – TP19BIO001, 003, 004	TBI	
1645 – 1730	Technical Talk ELE– I	Nano Electronics: Abstract No – TP19ELE002, 003, 004	TT-311	
1645 – 1730	Technical Talk ENR-I	Nano Energy & Environment: Abstract No – TP19ENR001, 002, 004	TT-312	
1930: Conference Dinner at Greenos				
		DAY – II (12.10.2019)		
0900 – 1000	Plenary Talk- II	Chair: Prof. Geetha Manivasagam, VIT, Vellore  Plenary speaker: Dr. Meyya Meyyapppan, NASA, USA  Title: Nanomaterials and Printed Electronics	TT Gallery-1 (028-029)	
1000-1045	Keynote Talk – II	Keynote Speaker: Prof. Hae Won Kim, Dankook University, South Korea Title: Multiple control of Cellular Micro Environment with Nano/Micro Particles for Tissue Regeneration	TT Gallery-1 (028-029)	
Tea break (1045 - 1100)				

1100 – 1130	Invited Talk -IV	Chair: Prof. Amitava Mukherjee, VIT, Vellore  Invited Speaker: Dr. Kaushik Chatterjee, IISc, Bangalore Title: In Vitro Disease Models for Breast Cancer and Cardiac Hypertrophy	TT Gallery-1 (028-029)
1130 – 1200	Invited Talk – V	Invited speaker: Dr. M Kannan, Tamil Nadu Agricultural University, Coimbatore Title: Nanotechnology in Agricultural Production and Protection	TT Gallery-1 (028-029)
1200-1230	Invited Talk – VI	Invited Speaker: Dr. Easwaramoorthy, ARCI, Hyderabad Title: Perovskite Solar Cells-Scale-up and Performance Evaluation	TT Gallery-1 (028-029)
1230- 1300	Invited Talk – VII	Invited speaker: Dr. Neetu Singh, Associate Professor, Indian Institute of Technology Delhi Title: Red Blood Cells Derived Vesicles for Theranostic Applications	TT Gallery-1 (028-029)
1300-1400	Lunch		Foodys
1400 – 1430	Invited Talk-VIII	Chair: Prof. R. Vasudevan, VIT, Vellore  Invited speaker: Dr. Beata Kaczmarek, Nicolaus Copernicus University, Poland. Title: Nanotechnology in Cosmetics-Opportunities or Challenges?	TT Gallery-1 (028-029)
1430-1500	Invited Talk – IX	Invited Speaker: Dr. Tom Mathews, IGCAR, Kalpakkam, Chennai <i>Title:</i> Multiphase TiO <sub>2</sub> nanotubes for Enhanced H <sub>2</sub> Generation by Solar Water Splitting	TT Gallery-1 (028-029)

1500-1530	Invited Talk - X	Invited Speaker: Dr. V. Murugan, CECRI, Karaikudi Title: Environment-Friendly Multifunctional Nanosystem: A Need of The Day?	TT Gallery-1 (028-029)
		Tea Break (1530 - 1545)	
1545-1600	Invited Talk - XI	Keynote speaker: Prof. Dimitrios Stamatialis, University of Twente, The Netherlands Title: Bioartificial Organs- Can we mimic or replace patient failing Organs	TT Gallery-1 (028-029)
1600-1615	Invited Talk - XII	Keynote Speaker: Dr. Thomas Webster, Northeastern University, USA Title: Goodbye Hospitals: Hello Implantable Nanosensors	TT Gallery-1 (028-029)
1615 - 1730	Technical Talk DEF-I	Nano-Defense: Abstract No – TP19DEF001, 002, 006, 008, 009	TT Gallery-1 (028-029)
1615 - 1730	Technical Talk ELE– II	Nano Electronics: Abstract No – TP19ELE005, 006, 007, 009, 010, 012	TT311
1615 - 1730	Technical Talk ENR-II	Nano Energy & Environment: Abstract No – TP19ENR006, 007, 008, 016, 017	TT312
1615-1730	Technical Talk MED-I	Nano-Medicine: Abstract No TP19MED008, 011, 012, 013, 014	TBI

DAY - III (13.10.2019)

0900 – 0945	Keynote Talk – III	Chair: Prof. Prakasam, SBST, VIT, Vellore  Invited speaker: Prof. S. Balakumar, National Centre for Nanoscience and Nanotechnology, Univ of Madras, Chennai Title: Nanostructured Bioactive Glass based composites for Ortho, Dental and Ophthalmology	TT Gallery-1 (028-029)
0945 – 1015	Invited Talk – XIII	Invited speaker: Dr. I. Srinivas, Principal Scientist, ICAR, Hyderabad Title: Nano in Agriculture-Fertilizers to Pesticides	TT Gallery-1 (028-029)
1015 – 1045	Invited Talk – XIV	Invited speaker: Dr. Sivakumar, ARIVIYA Labs. Thanjavur Title: Nanotechnology/Nanomaterials: Industrial Perspectives	TT Gallery-1 (028-029)
		Tea Break (10:45 – 11:00)	
1100 - 1130	Invited Talk – XV	Invited Speaker: Dr. T. S. Sampat Kumar, Indian Institute of Technology Madras  Title: Multifunctional Calcium Phosphate Nano Particles for Theragnosis	TT Gallery-1 (028-029)
1130 - 1200	Invited Talk - XVI	Invited speaker: Prof. Ashis Kumar Sen, Indian Institute of Technology Madras, Chennai  Title: Interfacial Phenomena in Microfluidics	TT Gallery-1 (028-029)
1200 – 1315	Technical Talk ANM-II	Advanced Nanomaterials: Abstract No –TP19ANM011, 012, 013, 014, 016,018	TT Gallery-1 (028-029)
1200 – 1315	Technical Talk BIO- II Technical Talk ANM_III	Nano Biotechnology: Abstract No -TP19BIO008, 012, 013 Advanced Nanomaterials: Abstract No-TP19ANM019,020	ТВІ

1200-1315	Technical Talk ENR-III, MED-II	Nano Energy & Environment: Abstract No – TP19ENR 019, 020 Nano-Medicine: Abstract No TP19MED017, 021, 022	TT311
1200-1315	Technical Talk: AGR-I MAN- I BIO- III	Nano-Agriculture:TP19AGR006; Nano-Manufacturing: TP19MAN002 Nano Biotechnology-Abstract No -TP19BIO005, 006	TT312
1315-13:30	Concluding remarks	Dr. Swarnalatha	TT Gallery-1 (028-029)
1330 – 1415	Lunch		Foodys
1430 – 1600	Valedictory Function		Dr M Channa Reddy Auditorium