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VIMALA COLLEGE (AUTONOMOUS), THRISSUR

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Report Academic Year 2019-2020

Name of the Event: International Seminar on Nanostructures and

Nanomaterials

Date: August 8,2019

Organised by: Post Graduate and Research Department of Physics and Post

Graduate Department of Chemistry

No. of Participants: 266

Report

Post Graduate and Research Department of Physics and Post Graduate Department of Chemistry jointly organised a one day international seminar on Nano structures and Nanomaterials, on 8th august 2019. (NSNM 2K19)

The Inaugural session started at 10.00 am in the morning. In the inaugural session, Dr Malini K A, Head of the Department of Physics extended the welcome note. Dr Sr Beena Jose, Principal, Vimala College addressed the gathering. The programme was inaugurated by Dr Pulickal M Ajayan, Benjamin M and Mary Greenwood Anderson Professor in Engineering at Rice University. In his Inaugural address; he enunciated his views on technological advancements that facilitated life. He mentioned social changes prevailing in the society as a part of technological progress. He regarded Nanotechnology as 'God's own technology' and remarked on several innovations in the field of Science. Prof MR Anantharaman, UGC BSR Faculty Fellow, CUSAT, in his felicitation address, spoke about the disruptive technologies. He cited several examples from day to day life and made it clear that Nanotechnology is not only an enabler but also a disrupter. Dr Sr Ritty J Nedumpara expressed her utmost happiness in blooming of Physics and Chemistry departments. She also admired the teaching faculty for their genuine interest in development of the students and for their research orientation. The inaugural session came to an end by the vote of thanks by Dr. Theresa C J, Assistant Professor Department of Chemistry Vimala College.







Inauguration and Inaugural Talk

The Keynote session of the international seminar was presented by Prof. Pulickel M Ajayan. The topic was mainly on Nanoengineered Materials which is the major contributing technological field for the development of Interdisciplinary Research STEM(Science Technology Engineering Mathematics) in USA. Sir remarked that nanotechnology rooted from many technologies of the past. He hinted about an era when our lives will be propelled by auto driving carsmaking use of advanced censors. He described about an experiment conducted in their laboratory on chicken bones. The process composed of demineralisation for the removal of inorganic compounds and eventually the structure was studied by using three dimensional tomography. He considered Nanotechnology as a legogame. He gave an introduction to nanotubes used for creating energy storing materials and on how strong materials were made by combining different materials with weak materials. He described about self cleaning and self healing techniques. He specified about two dimensional materials of one atom thickness that could be grown over large areas. He could also create awareness about numerous nanomaterial applications.





Keynote session by Prof. Pulickel M Ajayan



The first Technical session of the seminar was presented by Dr MR Anantharaman, UGC BSR Faculty Fellow, CUSAT. His topic was "size property relationships at Nano dimensions". He started with an epoch making statement of Richard Feyman "There is plenty of room at the bottom". He dealt with the implications of reduced dimentions. He related the size of reduced dimensions to the size of an electron cloud. He commented on Langevin model of paramagnetism and super magnetism. The idea of paper battery made of thin sheet of cellulose was put forward.





Technical Session by Dr. M R Anantharaman

The second Technical session was presented by Dr. Bastien Seantier of University of South Brittany Lorient, France. He gave a brief account about Aerogels and threw light on their innumerable properties like high porosity, large internal storage. He commented on their application as catalysts and in drug delivery. He explained how nanoparticles could be effectively organised to form incredible nanostructures





Technical Session by Dr. Bastien Seantier

The third Technical session was presented by Dr Mona Jani, Yachai Tech University, Ecuador. She talked about "Surface Engineering And Bio Applications Of Nanodiamond".in her lecture, she talked about the methods of preparation of Nano diamonds, like detonation method, cvd



process etc. She also talked about the methods to identify the nano diamonds. She stated that important uses of Nano diamonds comprise bone and tissue implants and told that the future perspective of the research is to introduce magnetism in Nano diamonds. The programme came to an end by 4 pm.





Technical Session by Dr. Mona Jani

At the beginning of each technical session, the resource persons were introduced to the audience and after the session dually acknowledged by faculty members. Time was allotted for interaction. The resource persons were honoured with a momenta after each session. Feedback was collected from participants and filed. The number of participants were around 300 (faculties/Research Scholars and students faculties from Organising Committee). The informative sessions have tremendously helped in enhancing the knowledge about the future and present perspectives of nanomaterials among the participants.



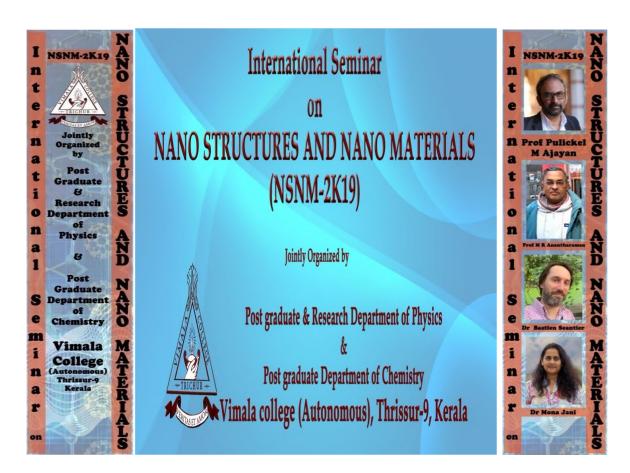
Participants of NSNM -2K19



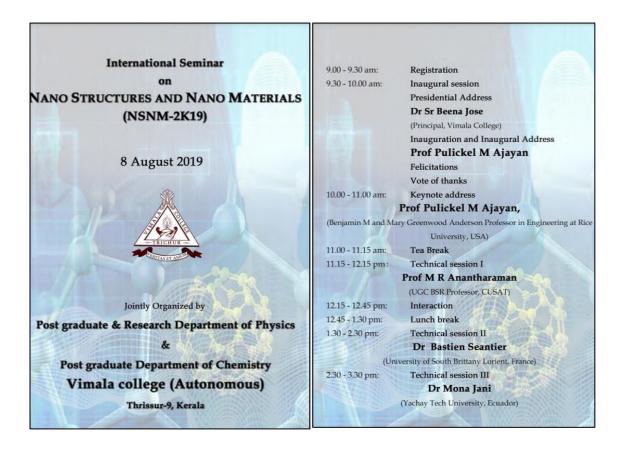


Organisers and students with NSNM- 2K 19 Resource Persons

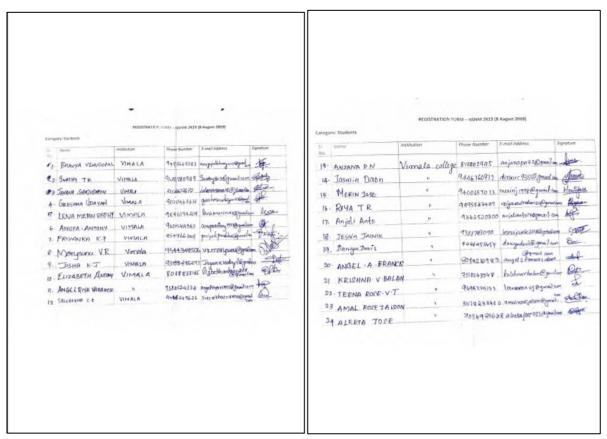
Brochure





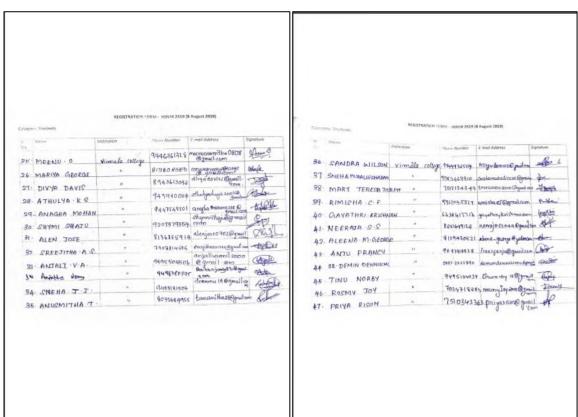


List of Participants

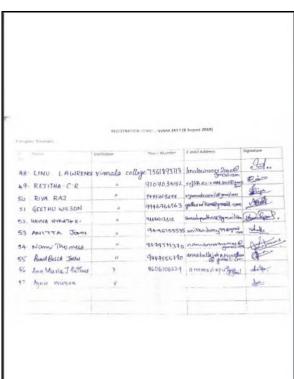


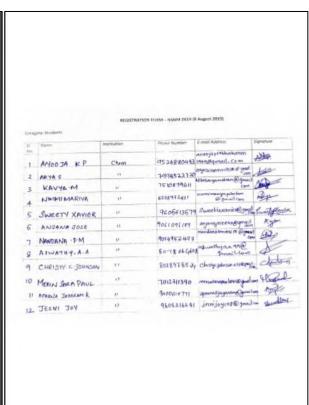


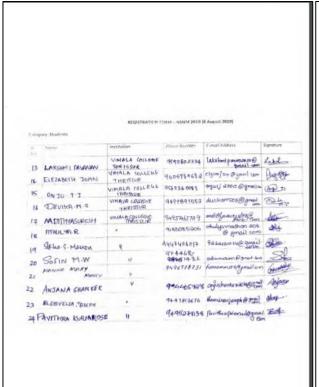






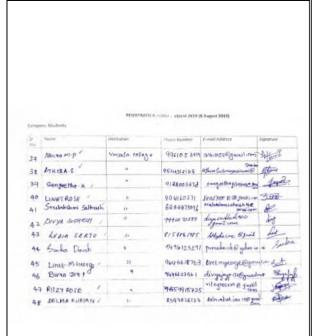


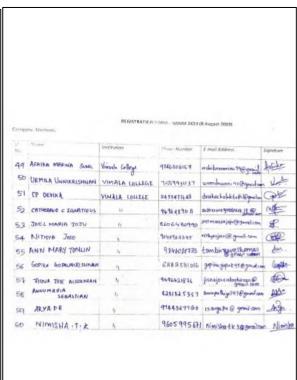


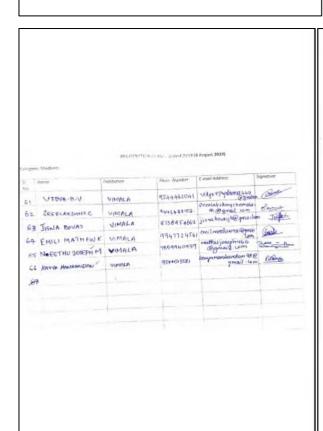






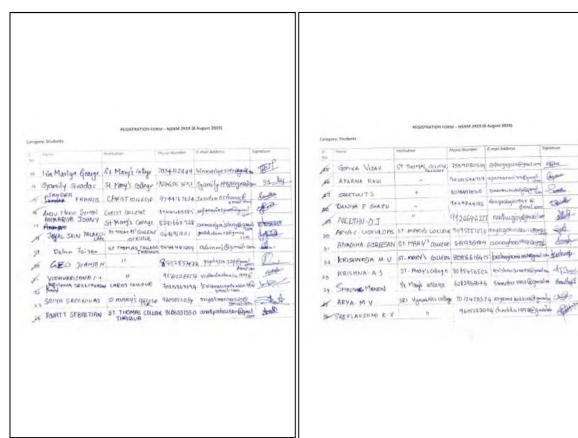


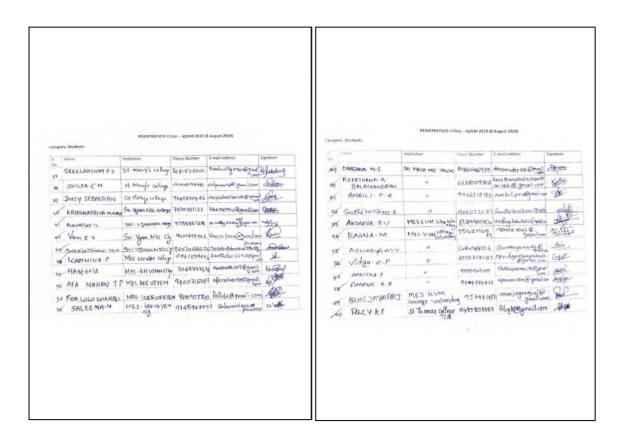




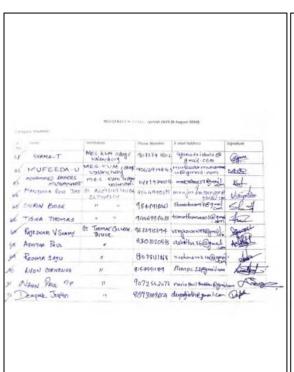




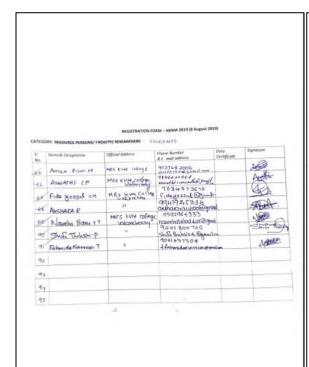


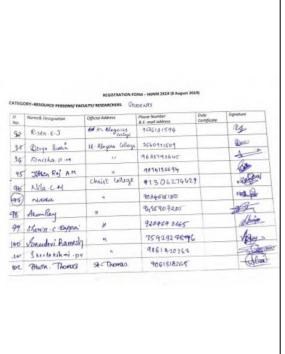




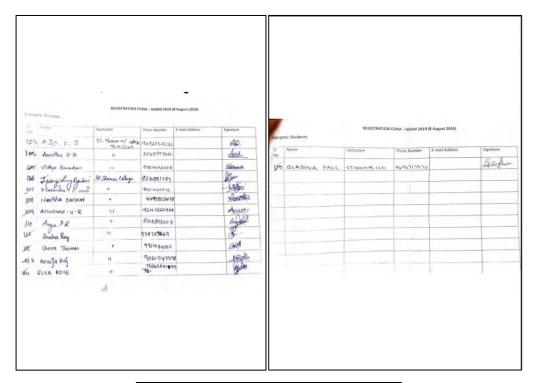












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Head Department of Physics Vimala College(Autonomous)



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