



Report

on

Science Academies' Lecture Workshop on 'Emerging Trends in Nano-Science and Nano-Technology'

(7th and 8th of September 2018)

Sponsored by

Indian Academy of Sciences, Bengaluru
Indian National Science Academy, New Delhi
The National Academy of Sciences, Allahabad

Organized by



Department of Physics
Jawaharlal Nehru National College of Engineering,
Navule, Savalanga Road, Shivmogga-577204,
Karnataka, India

Submitted by

Coordinator

Dr Rajprakash H G
Assistant Professor
Department of Physics
JNNCE, Shivamogga-577 204

A two-day Science Academies' Lecture Workshop on 'on 'Emerging Trends in Nano-Science and Nano-Technology' was held on 7th and 8th September, 2018 at Jawaharlal Nehru National College of Engineering, Shivamogga, Karnataka. The workshop was organized by Department of Physics, JNNCE in association with Indian Academy of Sciences, Bengaluru, Indian National Science Academy, New Delhi and The National Academy of Sciences, Allahabad. The workshop has been organized as per the guidelines of IASc.

Dr. G U Kulkarni, Director, Center for Nano and Soft matter Sciences (CeNS), Bengaluru, Karnataka, was the Convener and Dr. Rajprakash H G, Assistant Professor, Department of Physics, YIT was the Coordinator. Eminent academicians from reputed institutions were invited for the workshop to share their subject knowledge to the participants. A total of 08 lectures were given by resource persons. About 164 participants (Faculty, PG & UG students, and Research scholars) from various institutions participated in this two-day lecture workshop

Resource Persons of the Program



Dr. G U Kulkarni



Dr. Balaji R Jagirdhar



Dr. Eswarmoorthy M



Dr. Geetha G Nair



Dr. Neena S John

During each lecture, speaker spoke first on basics of the respective topics before covering advance and research part of the topics, to reach all level participants, which included 97 students (UG, PG and Research scholars) and 60 faculty members. Further, each lecture session was concluded with more than 15 minutes of discussions.

Inaugural Session

The workshop was inaugurated by convener of the workshop Dr. Giridhar U Kulkarni. Dr Giridhar U Kulkarni was the chief Guest of the function in absence of The Chief Guest of workshop Prof Siddappa K, Director of Science and Technology, JSS foundation, JSS Mahavidyalaya, Bengaluru and Former Vice chancellor, Bangalore University, Bangalore. The programme was presided over by Dr. H R Mahadevaswamy, Principal of JNNCE, Shivamogga. The Management members of National Education Society, Sri. A S Vishwanatha, Sri S N Nagaraja, Sri T R Ashwatha Narayana

Setty, Sri H C Shivakumar and Dr. L K Sreepathi, Vice principal of JNNCE were present on the occasion. Dr B N Anandaram, Professor and Head, Department of Physics, welcomed the gathering. Dr Rajprakash H G, Coordinator of the workshop, briefed about the workshop. Prof R K Baliga, Associate Professor, Dept of Physics, introduced the resource persons. Dr Mohinuddin Khan M H, Associate Professor, Department of Chemistry, proposed the Vote of thanks.



Valedictory Program/Photo Session

During valedictory program, a brief report of the workshop, highlighting the financial support and suggestions of the Science Academies, was presented by the coordinator. Many participants expressed their views and happiness. Appreciation was also received on over all arrangement of the workshop, including transportation, hospitality and food. Some faculty participants showed their interest in organizing similar kind of workshops in their colleges. Dr. H R Mahadevaswamy, Principal, JNNCE, expressed concluding remarks with gratitude.





Inaugural Programme Schedule

 <p style="text-align: center;">National Education Society (R.) JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING SHIVAMOGGA – 577204 <small>(Affiliated to VTU Belagavi, Recognized by Govt. Of Karnataka Accredited by NAAC & Approved by AICTE, New Delhi)</small></p> <p style="text-align: center;">INTERNAL QUALITY ASSURANCE CELL Department of Physics 2 Days Science Academies Lecture workshop on “Emerging Trends in Nanoscience and Nanotechnology”</p> 	 <p style="text-align: center;">National Education Society (R.) JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING SHIVAMOGGA – 577204 <small>(Affiliated to VTU Belagavi, Recognized by Govt. Of Karnataka Accredited by NAAC & Approved by AICTE, New Delhi)</small></p> <p style="text-align: center;">INTERNAL QUALITY ASSURANCE CELL Department of Physics 2 Days Science Academies Lecture workshop on “Emerging Trends in Nanoscience and Nanotechnology”</p> 
<i>Inauguration</i>	<i>Valedictory</i>
Date: 7th September 2018, 9.30 AM	Date: 8th September 2018, 4.00 PM
Venue: MBA/MCA Auditorium	Venue : MBA/MCA Auditorium
<p>Chief Guest and Inauguration : Dr. K. Siddappa <small>Honorable Director, JSS Foundation for Science & Technology, Former Vice Chancellor Bengaluru University, Bengaluru</small></p> <p>Guests of Honour : Dr Giridhar U Kulkarni <small>Director, Centre for Nano and Soft Matter Sciences, Bengaluru</small></p> <p>Honourable Presence : Sri A. S. Vishwanatha <small>President, NES, Shivamogga</small> Sri T. R. Ashwath Narayana Setty <small>Vice-President, NES, Shivamogga</small> Sri S. N. Nagaraja <small>Secretary, NES, Shivamogga</small> Dr. L. K. Sreepathi <small>Vice-Principal, JNNCE, Shivamogga</small></p> <p>Presided by : Dr. H. R. Mahadevaswamy <small>Principal, JNNCE, Shivamogga</small></p>	<p>Chief Guests : Dr Giridhar U Kulkarni <small>Director, Centre for Nano and Soft Matter Sciences, Bengaluru</small></p> <p>Guests of Honour : Sri C. R. Nagaraj <small>Treasurer, NES, Shivamogga</small> Sri Amarendra Kireeti <small>Joint Secretary, NES, Shivamogga</small></p> <p>Honourable Presence : Dr. L. K. Sreepathi <small>Vice-Principal, JNNCE, Shivamogga</small></p> <p>Presided by : Dr. H. R. Mahadevaswamy <small>Principal, JNNCE, Shivamogga</small></p>
 You are cordially invited by HoD & Staff, Department of Physics	 You are cordially invited by HoD & Staff, Department of Physics

Over all Programme Schedule



“Science Academies’ Lecture Workshop on “Emerging trends in Nanoscience and Nanotechnology”

Department of Physics, JNNCE, Navule, Savalanga Road, Shivmogga-577204

Programme Schedule

Date – 7th September, 2018

08:30 AM - 09:30 AM	Registration and Break Fast	
09:30 AM - 10:15 AM	Inauguration	
10:15 AM - 11:45 AM	Dr Giridhar U kulkarni Director, Centre for Nano and Soft Matter Sciences Bengaluru	Session 01:Basics aspects of Nanoscience, Quantum confinement effects and quantum devices
11:45 AM – 12.00 PM	Tea Break	
12:00 AM – 13:15 PM	Dr Balaji S Jagirdar Professor, Dept of Inorganic & Physical Chemistry, Indian Institute of Science, Bangalore	Session 02: Characterization methods in Nanoscience.
13:15 PM – 14:15 PM	Lunch	
14:15 PM – 15:45 PM	Dr M Eswarmoorthy Professor JNCASR , Bengaluru	Session 03: Nanoporous materials and applications
15:45 PM - 16:00 PM	Tea Break & Photo – Session	

16:00 PM – 17:30 PM	Dr Giridhar U kulkarni Director, Centre for Nano and Soft Matter Sciences Bengaluru	Session 04: Academic research leading to technology development: results from our laboratory.
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Date – 8th September, 2018

9.30 AM to 11.00 AM	Dr Geetha G Nair Scientist CeNS, Bangalore	Session 08: "Rheology of soft materials"
11:00 AM - 11:15 AM	Tea Break	
11:15 AM – 12:45 PM	Dr Geetha G Nair Scientist Centre for Nano and Soft Matter Sciences , bengaluru Geetha Nair	Session 06: Anisotropic organogels: energy efficient soft materials"
12:45 PM – 13:45 PM	Lunch	
13:45 PM – 15:00 PM	Dr. Neena Susan John Scientist CeNS, Bangalore	Session 07: Synthesis of Inorganic nanomaterial-1
15:00 PM - 15:15 PM	Tea Break	
15:15 PM – 16:15 PM	Dr. Neena Susan John Scientist CeNS, Bangalore	Session 08: Synthesis of Inorganic nanomaterial-2
16.15 PM -16.45 PM	PANEL DISCUSSION/ VALIDICTORY FUNCTION	

