



## APPENDIX - 15

## Invited Talks and Lectures by CSIR-NPL Scientists

S No	Speaker's Name	Topic	Event and Venue
1.	Dr. PK Singh	Applications of Nanotechnology to Photovoltaic: Approaches and Challenges	Indo-Norwegian Workshop on Solar Energy Materials and Applications: International Conference on Advanced Materials December 13-16, 2011, Coimbatore
2.	Dr. PK Singh	Application of Nano-Technology in Wafer-based Silicon Solar Cells	International Conference on Nanoscience and Nanotechnology, Coimbatore Institute of Technology, July 6-8, 2011, Coimbatore
3.	Dr. Vandana	Test and Calibration Procedures for Solar Cells	International Conference on Advanced Materials ICAM-2011, Coimbatore
4.	Dr. Govind	III-Nitride Materials for Efficient Energy Generation & Utilization	National Conference On Recent Trends In Materials Science and Nano Structure (Rtmsns-12), January 3-4, 2012, Rudrapur
5.	Dr. Mahesh Kumar	Metal-Silicon Surfaces and interfaces	IOP Bhubaneswar, Colloquium talk
6.	Dr. Mahesh Kumar	The Glimpses of Surface Science: From Atoms to Devices	University of Delhi Hindu College Teachers Day Celebration
7	Dr. M.N. Kamalasanan	Organic Semiconductors and its Applications	International Conference on Optics: OPTICS'11, National Institute of Technology, May 23-25, 2011, Calicut
8	Dr. M.N. Kamalasanan	Development of Organic-Inorganic Hybrid Devices for Energy Saving and Generation	2nd Indo-Italian Workshop on Electrochemistry for FUTURE ENERGY SOLUTIONS, Department of Chemistry University of Delhi Nov 30-Dec 1, 2011
9	Dr. Ritu Srivastava	Fabrication of Hybrid Organic-Inorganic LED Device using Quantum Dots as an active Emissive Layer	National Symposium on Recent Advances in Nanoscience, Engineering & Technology at ABV- Indian Institute of Information Technology & Management, Gwalior, India Nov. 19-20, 2011
10	Dr. Virendra Shanker	Recent Initiatives on Phosphor R&D at CSIR-NPL	International Conference on Luminescence and its Applications (ICLA-2012), held at IICT, Hyderabad, during Feb. 7-10, 2012.
11	Dr. Santa Chawla	Rare Earth Doped Light Emitters	Brain storming session on 'Fiber Lasers and related technology', RRCAT, Indore, 5th Sept., 2011 Nanomeasure – 2011, NGM College, Pollachi, September 15-16, 2011.
12	Dr. Santa Chawla	Luminescence Spectroscopy of Quantum Dots and Nanoparticles	International Conference on Luminescence and its Applications (ICLA-2012), held at IICT, Hyderabad, during Feb. 7-10, 2012.
13	Dr. D. Haranath	Advances in Novel Phosphor/Nanophosphor System for High-Resolution X-Ray Real-Time Imaging	Emerging Trends in Nanoscience and Nanotechnology held at NYSS College of Engineering and Research, Nagpur during Dec. 20-21, 2011





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14	Dr. D. Haranath	Recent Advances in Nanophosphors for Photonic Applications	National Workshop on Nanoscience and Nanotechnology (NWNST-2012) held at Raipur during March 12, 2012
15	Dr. D. Haranath	Nanotechnology and its Enthralling Applications	IVth National Conference on Nanomaterials and Nanotechnology (NATCON NAMTECH IV -2011), held at Physics Department, Lucknow University during December 21-23, 2011.
16	Dr. Bipin Kumar Gupta	Advanced Luminescent Nanomaterials for Strategic Applications in Forthcoming Nanotechnology	Special Chemistry Seminar, held at Department of Chemistry, The City College of New York, USA, during May 25-26, 2011.
17	Dr. Bipin Kumar Gupta	Luminescent Materials for Strategic Applications	Special Seminar on Nanomaterials, held at Hydrogen Energy Centre, Department of Physics, Banaras Hindu University, Varanasi, on March 6, 2012.
18	Dr. Bipin Kumar Gupta	Advanced Bifunctional Luminescent Nanomaterials for Strategic Applications in Forthcoming Nanotechnology	Sectional Seminar on Optical Properties of Exotic Carbon at Department of Mechanical Engineering and Material Science, Rice University, Houston, Texas, USA, on December 13, 2011
19	Dr. Bipin Kumar Gupta	Investigations on the Luminescent Properties of Graphene & Carbon nanotubes for Opto-electronic Device Applications	National Conference on Advance Materials in Industries, Feb. 10 - 11, 2012, Israel
20	S.R. Dhakate	Carbon wondrous material from Charcoal to Graphene: Industrial Applications	Yusuf College of Arts, Science and Commerce, Jogeshwari (east) Mumbai.
21	S.R. Dhakate	Synthesis of electrospun continuous nanofibers and its applications for air and water filtration	International conference on recent developments in Environmental impact assessment and Integrated approach for carbon management-solutions, technology development and pollution abatement, NEERI, Nagpur, March 28-30, 2012.
22	Dr. C. Sharma	Atmospheric Chemistry: Some Issues of Importance for Climate Change and Air Quality	UGC-SAP Workshop on Environmental Chemistry held on September 10, 2011 at D.E.I. (Deemed University), Agra.
23	Dr. C. Sharma	Problems in Meso-Scale Estimation of N <sub>2</sub> Emissions from River Basins in India	Brain Storming Workshop on 'Backward Integration of Nitrogen in Major Indian River Systems' held during March 02-03, 2012 at NASC, New Delhi.
24	Dr. M V S N Prasad	Measurement of Path Loss in Urban and Suburban Environments Over Various Regions of India and the Associated Modeling Studies	IEEE international conference on Applied Electromagnetics, Dec. 18-22, 2011, Kolkata
25	Y.P. Singh	Basic Concepts and Recent Trends in Temperature Metrology	2nd National Conference on Advances in Metrology, AdMet- 2012, February 6-8, 2012, ARAI, Pune.



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26	Dr. S.K.Jain	Developments in Force/ Torque Sensors and Metrology	Indo-French Seminar on Sensors Technologies, March 1-4, 2012, I.I.T. Delhi
27	Dr. Sanjay Yadav	Pressure Balances: Theory, Practice, Calibration and Measurement	National Council for Cement and Building Materials (NCCBM), August 26, 2011 Ballabhgarh, Haryana
28	Dr. Sanjay Yadav	Principle of Pressure Measurement and Pressure Standards	NPL, New Delhi during Legal Metrology Officer's Visit, March 6, 2012, NPL
29	Dr. Mahavir Singh	Sound Transmission of a New Designed Lightweight Partition	National Symposium on Acoustics (NSA-2012), Bundelkhand University, Jhansi
30	Dr. Yudhisther Kumar	Ultrasonic Power Measurement and its Importance in Industry	National Symposium on Acoustics (NSA-2011), November 17-19, 2011, Jhansi
31	Dr. Yudhisther Kumar	Ultrasonic Non-destructive Testing and Evaluation of Materials	Two Day Workshop on Current Perspectives in Advance Material Sciences, Pt. NRS Govt. College, Rohtak, February 8-9, 2012
32	Dr. H.C. Kandpal	Strides Towards Classical to Quantum Candela	International Conference on advancement in metrology (AdMet- 2012), Feb. 6-8, 2012, Pune, India
33	Dr. H.C. Kandpal	Role of Surface Plasmons in Modulating Spectral and Coherence Properties	XXXVI OSI Symposium on Frontiers in Optics and Photonics (FOP11), IIT Delhi, Dec. 3-5, 2011
34	Dr. V.N. Ojha	Quality Management System 'ISO 17025'	A training programme on 'Competency Development for Technical Officers' at CSIR-The Human Resource Development Centre, Ghaziabad June 20-24, 2011
35	Dr. V.N. Ojha	Quality Management Systems 'ISO 9000'	A training programme on 'Competency Development for Technical Officers' at CSIR-The Human Resource Development Centre, Ghaziabad June 20-24, 2011
36	Dr. V.N. Ojha	Need for Nanometrology	Workshop on Uncertainty in Measurement, Optical Profiler & Low level DC Resistance & Current Measurements, November 16-18, 2011 at NPL, New Delhi. (under Nanometrology Project)
37	Dr. V.N. Ojha	Evaluation and Expression of Uncertainty in Measurements	Workshop on Uncertainty in Measurement, Optical Profiler & Low level DC Resistance & Current Measurements, November 16-18, 2011 at NPL, New Delhi. (under Nanometrology Project)
38	Dr. V.N. Ojha	Low Level Voltage Measurements	Workshop on Uncertainty in Measurement, Optical Profiler & Low level DC Resistance & Current Measurements, November 16-18, 2011 at NPL, New Delhi. (under Nanometrology Project)
39	Dr. V.N. Ojha	Quality Management System 'ISO 17025'	A training programme on 'Competency Development for Technical Officers' from 28 Nov-02 Dec, 2011 at CSIR-The Human Resource Development Centre, Ghaziabad.





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40	Dr. V.N. Ojha	Quality Management Systems 'ISO 9000'	A training programme on 'Competency Development for Technical Officers' from 28 Nov-02 Dec, 2011 at CSIR-The Human Resource Development Centre, Ghaziabad.
41	Dr. V.N. Ojha	Quantum Electrical, Nanoelectrical and Nanodimensional Metrology at NPL-I	Invited Talk at 'Quantum Electronics and Photonics Division' of NIST, Boulder, USA on January 17, 2012.
42	Dr. Anjana Dogra	Refresher Course in Physics (RC-239)-I	UGC-Academic Staff College, Himachal Pradesh University, Shimla, August 4-5, 2011
43	Dr. Anjana Dogra	Refresher Course in Physics (RC-239)-II	UGC-Academic Staff College, Himachal Pradesh University, Shimla, August 4-5, 2011
44	Dr. Ranjana Mehrotra	Biomedical Plasmonics	AdMet 12, PUNE
45	Dr. Ranjana Mehrotra	IR Spectroscopy & Applications	Biomedical Instrumentation Programme, CSIO, New Delhi, March 29, 2012
46	Dr. G. Bhagavannarayana	Crystal Growth: A Subject of Study and Research	Inaugural address delivered in the Inaugural function of a newly established lab "Crystal Growth and Nanosynthesis Research Center" on April 6, 2011
47	Dr. G. Bhagavannarayana	Crystal Growth and Evaluation of Structure and Perfection by X-ray Methods	Phys. Deptt., Government College (A), Rajahmundry, Andhra Pradesh on April 6, 2011 on the day of Inauguration of a new R&Dlab "Crystal Growth and Nanosynthesis Research Center" on April 6, 2011
48	Dr. G. Bhagavannarayana	Advanced Materials Characterization: Role of X-rays	Physics Dept., Government College (A), Rajahmundry, Andhra Pradesh during Nov. 24-25, 2011.
49	Dr. G. Bhagavannarayana	Characterization of Epitaxial Films and their Nano-Scale Device Structures by High- Resolution XRD, GII- XRD and RSM Techniques	International Conference on Advanced Materials (ICAM 2011) held at Dept. of Phys., PSG College of Technology, Coimbatore during Dec. 12-16, 2011.
50	Dr. G. Bhagavannarayana	An Overview on X-Ray Characterization Techniques for Purity, Composition, Structure and Perfection including Defects & Interfaces	National Conference on Recent Advances in Materials and Technology (NCRAMAT – 2012) held at Phys. Dept., Sathyabama University held during Jan. 6 - 7, 2012.
51	Dr. G. Bhagavannarayana	Recent Advances in Materials & Technology	Plenary talk delivered at National Conference on Recent Advances in Materials and Technology (NCRAMAT – 2012) held at Phys. Dept., Sathyabama University held during Jan. 6 - 7, 2012
52	Dr. G. Bhagavannarayana	Evaluation of Purity, Structure and Perfection of Advanced Materials by Advanced X-Ray Techniques	DAE-BNRS National Symposium (NLS-20) held at Crystal Growth Center, Anna University, Chennai during Jan. 9-12, 2012.
53	Dr. G. Bhagavannarayana	Enhancement of NLO properties in single crystals due to additives/dopants/ annealing and their correlation with crystalline perfection	A special Invited talk delivered at Presidency College, Chennai on Jan. 11, 2012.



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54	Dr. G. Bhagavannarayana	Advanced Materials Characterization Techniques by X-Rays: An Overview	Invited talk delivered at Phys. Dept., Sree Subbaraya and Narayana College, Narasaraopeta, Guntur (DT), Andhra Pradesh, on Jan. 25, 2012
55	Dr. G. Bhagavannarayana	Crystal Growth and X-ray Characterization – An Overview	National Conference on Recent Advanced Materials” held during Jan. 27 & 28, 2012 at Department of Physics, Sir C.R. Reddy (Autonomous) College, Eluru, Andhra Pradesh.
56	Dr. G. Bhagavannarayana	Recent Advanced Materials	National Conference on Recent Advanced Materials” held during Jan. 27 & 28, 2012 at Department of Physics, Sir C.R. Reddy (Autonomous) College, Eluru, Andhra Pradesh.
57	Dr. G. Bhagavannarayana	Crystal Growth and X-ray Characterization – An Overview	DAE-BRNS National Laser Symposium (NLS-20) held at Anna University, Chennai during Jan. 9-12, 2012 at crystal growth centre
58	Dr. G. Bhagavannarayana	Enhancement of NLO Properties in Single Crystals due to Additives/ Dopants/ Annealing and their Correlation with Crystalline Perfection	International Conference on Nanomaterials and Nanotechnology (ICNANO-2011), held at University of Delhi, Delhi during December 18-21, 2011
59	Dr. Rashmi	X-ray Fluorescence Spectrometry for Characterization of Materials Applications of X-ray Fluorescence Spectrometry in Materials Characterization	Frontiers in Nanoscience, Nanotechnology and Their Applications (NanoSciTech 2012), held at Punjab University, Chandigarh during February 15-18, 2012
60	Dr. N. Vijayan	Growth of Highly Perfection Single Crystals by Different Methods for Technological Applications	National Seminar on Challenges and Emerging Trends in Physics (Intercollegiate meet on PHUSIS) during Feb. 23-24, 2012 held at Dept. of Physics, Dhanalakshmi Srinivasan college of Arts & Science for Women, Perambalur, Tamil Nadu.
61	Dr. S.G. Aggarwal	Overlooking Aerosol Metrology: A Big Hole in Atmospheric Aerosol Measurement Studies	7th Asian Aerosol Conference, Xi'an, China, August 17-20, 2011
62	Dr. S.G. Aggarwal	Chemical Indicators of Source Contributions in Indian Cities	Workshop on vehicular air pollution and its impact on human health (jointly organized by MoEF, CPCB, EPCA, ICCT), Indian Habitat Centre, New Delhi, India, September 1-2, 2011
63	Dr. S.G. Aggarwal	Metrology Matters more than Tightening of Vehicle Emission Regulations and Air Quality Standards	National Conference on Advances in Metrology (AdMet-2012), Pune, India, February 6-8, 2012
64	Dr. S.G. Aggarwal	Status and Challenges in Aerosol Metrology	Divisional Seminar of NPL, March 12, 2012

