

INVITED TALKS, LECTURES BY NPL SCIENTISTS

S. No.	Speaker's Name	Topic		Event and Venue
01.	Vikram Kumar	i)	Metrology and the role of NPL	Invited talk at SRI (Sri Ram Institute) on 09-04-08
		ii)	International System of Metrology & its Economic Impact	CII 23-05-08 at Kolkata
		iii)	Metrology in Chemistry-Indian Roadmap	Welcome address at the International Experts & Partners Meeting of MIC Programme at NPL 30 May 2008
		iv)	Materials Research & Technologies in India-a glimpse	VAMAS Steering committee meeting, Montreal, Canada 12-06-08
		v)	Characterization of Materials for the new world of Nanotechnology on Materials Characterization	Workshop techniques (WMCT-2008) NPL, 07-07-2008
		vi)	Nano-Technology Research in India-a glimpse	University of Waterloo, Canada on 05-08-08
		vii)	Carrier Transport in Organic Electronic Devices	International Conference on Electroactive Polymers, Jaipur on 13-10-08
		viii)	Carrier Transport in Organic Electronic Devices	Asia Pacific Academy of Materials, NPL on 18-11-08
		ix)	Nanotechnology an Overview	Sri Venkateswara College, New Delhi, on 6-12-08
		x)	Nano-Technology Research at NPLI - a glimpse	India-Canada Meeting at IISC on 10-12-08
		xi)	Nano Science and Nanotechnology - an Overview	Keynote Talk, the National Symposium, Academy of Business & Engineering Services (ABES) Ghaziabad on 16-01-09
		xii)	Current in polymer solar cells	Invited talk at the 18th International Photovoltaic Science and Engineering Conference (PVSEC), 19-01-09
		xiii)	Organic and Hybrid photovoltaic cells	Invited talk at the Nano-Africa, Johannesburg, SA on 02-02-09
02.	Rina Sharma	i)	Dimensional Metrology	BIS training Programme for common wealth countries, 2008, NITS, Noida
		ii)	Evaluation and Expression	Pre AdMet Workshop on Electrical Energy



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S. No.	Speaker's Name	Topic		Event and Venue
			of Uncertainty in Measurements	Metrology, Feb. 16-17, 2009 National Physical Laboratory, New Delhi
		iii)	Dimensional Standards & Uncertainty in Measurements	National Workshop on Quality Assurance through Measurement Science, January 20-21, 2009, Central Mechanical Engineering Research Institute, Durgapur
03.	K P Chaudhary	i)	General concept of measurement and uncertainty evaluation in Biomedical measurement.	CSIO Delhi Center November 2008
		ii)	Calibration and uncertainty evaluation in Analytical instruments	CSIO Delhi Center April 2008
04.	Y P Singh	i)	"Basic concepts of temperature standards and measurement calibration as per ITS-90"	On-site training of scientists of KIM-LIPI, Indonesia in the area of Temperature Metrology during November 15-29, 2008
		ii)	Calibration of thermometers, thermocouples and pyrometers.	
		iii)	Evaluation and expression of uncertainty in the thermometers, thermocouples and pyrometers.	
		iv)	Evaluation and expression of uncertainty in the thermometers, thermocouples and pyrometers.	
05.	H C Kandpal	i)	High power factor CFLs and their advantages as Energy Efficient light sources.	Conference on Energy Efficient lamps, CFL phasing out, Manila, Philipinnes, during June 19-21, 2008.
		ii)	Photometry and colorimetry a series of ten lectures.	M. Tech students at ARAI Pune, Sept 12-13, 2008.
		iii)	Photometry measurements.	Crompton Greaves, Baroda. October 19, 2008.
		iv)	The quantum candela: a re-definition of the standard units for optical radiation NPL.	CPYLs programme, November 2008.
		v)	Photometry, colorimetry and radiometry.	VRDE Ahmednagar, December 15-16, 2008.



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		vi)	The quantum candela: a re-definition of the standard units for optical radiation.	DAE-BRNS Symposium on Atomic, Molecular and Optical Physics held at IUAC, New Delhi during Feb. 9-12, 2009.
		vii)	Classical Candela heading towards quantum candela.	International Trends in Optics and Photonics ICONTOP-09 held in Calcutta during March 1-4, 2009.
		viii)	Quantum Base for Classical Photometry.	National Symposium on Photochemistry and Radiation NSRP-09, held at Kumaun University, Nainital during March 11-13, 2009.
06.	A K Bandyopadhyay	i)	TCM Chairman report	APMP EC/TC Chairs Joint Meeting, June, 2008 at Dhaka, Bangladesh.
		ii)	TCM report in APMP region	23rd APMPGA held at Jakarta, Indonesia on November, 2008.
		iii)	Finite element calculation method (FEM) for the characterization of a pneumatic piston gauge up to 8 MPa	4th APMP Pressure and Vacuum workshop at Jakarta, Indonesia on November, 2008.
07.	Pardeep Mohan	i)	Status of Vacuum Standards at NPL, India.	Low Pressure Working Group Meeting of CCM, BIPM, France, 24 April 2008.
		ii)	Vacuum Measurements by some primary and transfer standards in the range of one atmosphere to Ultra High Vacuum,	BARC, 14-15 May 2008.
08.	G. Bhatia	i)	Development of Green Coke based High density-High strength-Isotropic graphite for industrial applications.	Intl. Conf. on Processing and Fabrication of Advanced Materials, Indian Institute of Technology, Delhi, Dec. 15-17, 2008.
		ii)	Development of High Density Graphite suitable for Multistage Depressed Collector of Electron Tubes.	Symposium on Vacuum Electronic Devices and Applications (VEDA2009), Institute of Technology, BHU, Varanasi - January 8-10, 2009.
		iii)	Development of Carbon-Ceramic Composites incorporating micro or nano silicon carbide	Intl Symposium on high performance materials, Organized by Institute of Plasma Research, Gandhinagar and Sardar Patel University, Anand, Feb.20, 2009.
09.	R. B. Mathur	i)	Characterization of Carbon Materials by X-ray Diffraction National, workshop on	National Workshop on the Characterization techniques of Carbon materials, Sardar Patel Univ., Vallabh Vidyanagar, Dec.23-24, 2008.



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			characterization techniques for carbon materials.	
		ii)	Synthesis methods of carbon nanotubes and their Applications.	Structured seminar, Delhi University, 3rd June 2008.
		iii)	Synthesis of Carbon Nanotubes- their composites and Applications in Industries.	Work-shop on Application of Carbon nanotubes in Industry" , IIT, Delhi, Oct. 24, 2008.
		iv)	Carbon components for Fuel cell Assembly : their Processing and Evaluation.	2nd Indo-German Workshop, Karlsruhe, Germany, 16-20 March, 2009.
10.	G.Bhagavannarayana	Realization of enhanced physical properties of single crystals through the improvement in crystalline perfection.		13th National Seminar on Crystal Growth held at SSN College of Engineering, SSN Nagar, Tamilnadu during Jan. 27-29, 2009.
11.	K. Nagarajan, C.K. Shashidharan Nair and G. Bhagavannarayana	High resolution X-ray diffraction and dielectric studies on phthalic acid and zinc tris (thiourea) sulphate single crystals.		13th National Seminar on Crystal Growth held at SSN College of Engineering, SSN Nagar, Tamilnadu during Jan. 27-29, 2009. Pg. I-13
12.	Sukhvir Singh	i)	Electron Microscopy Facilities at NPL and their utilization for characterization of various types of advance materials-An Introduction.	EMSI 2009 held at Bundelkhand University, Jhansi
		ii)	Characterization of materials using transmission electron microscope.	Workshop on Materials Characterization Techniques, July 7-11, 2008.
13.	B.R.Chakraborty	Time of Flight Secondary Ion Mass Spectrometry- Part I & Part II.		Invited talks(2) delivered at BARC, Mumbai on request from Mass Spectrometry Group. July 2008.
14.	P.K. Gupta	i)	Reducing Uncertainty in GHG emission estimates: Inter-calibration facilities',	NATCOM-SNC: Energy sector workshop, MoEF, New Delhi, 28 April 2008.
		ii)	Indian MiC & CRM Activities: NPL-I Partnership Model & Strategy for National Traceability Dissemination	MiC Work Shop, NPL New Delhi, 30 May, 2008.
		iii)	Atomic Absorption Spectrophotometer (AAS) Technique for Chemical Measurements	Workshop on Material Characterization Techniques (WMCT-2008), NPL New Delhi, July 7-11, 2008.



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		iv)	Development of Country Specific EFs of CH ₄ from Representative Landfills in India,	NATCOM Consultative meeting: Livestock, Waste and Industrial Process; MoEF, New Delhi August 27, 2008.
		v)	NPL India MiC/CRM Activities: Overview of Progress	5th MiC APMP-Work Shop, Jakarta, Indonesia, 31st October 2008.
		vi)	Country Report - NPL India MiC/ CRM Activities, 8th TCQM (APMP) meeting	Nov.3-4, 2008, KIM-LIPI, Jakarta, Indonesia , 4 Nov. 2008.
		vii)	Metrological Challenges in Chemical Measurements - Indian Scenario,	CIMFR visit of MiC/ CRM Network Project, January 8-9, 2009, CFRI Dhanbad, 8 January 2008.
		viii)	Metrological Challenges in Chemical Measurements - Way ahead for coal CRMs in energy sector,	CMRI visit of MiC/ CRM Network Project, January 8-9, 2009, CMRI Dhanbad, 8 January 2008.
		ix)	Key issues for a Indian proficiency testing (PT) for pesticides in Tea and its planning	NPL New Delhi, Jan 16, 2009.
		x)	Indo-German Cooperation for MiC NPLI & PTB/BAM Initiatives'	NPL-PTB cooperation Work-shop, Clarion (Qutab) Hotel, New Delhi, Feb15, 2009.
15.	S. Swarupa Tripathy	Use of Impregnated Oxides and Natural Adsorbents as Drinking Water Purifier. Nov.20-22, 2008, Hamdard University, Delhi, India.		28th Annual Session of Academy of Environmental Biology, Environmental Stress and Bioresource Management.
16.	R.S. Dabas	Modelling of equatorial and low latitude ionosphere over Indian zone.		37th COSPAR Scientific Assembly held in Montreal, Canada , July 13-20 , 2008.
		Mobile communication links and their performance assessment.		Fourth course on Radio meteorology and radio wave propagation over the sea for Indian Navy, held at NPL, New Delhi, Dec. 16-18, 2008.
17.	C Sharma	i)	Emission Inventory: Emission Factors and Methodology.	GURME International Workshop on Air Quality Forecasting held at Pune, Dec. 8-12 2008.
		ii)	Air Pollution and Agriculture	GURME International Workshop on Air Quality Forecasting held at Pune, Dec. 8-12 2008.
		iii)	Climate change and its impact.	Workshop on Training Methodologies in Decentralised Watershed Management



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				held at Indira Gandhi Panchayat Raj Institute, Jaipur, 16th March, 2009.
18.	S K Sarkar	i)	Characterization of non ionized media and wave propagation in clear air,	SERC Training programme on atmospheric and space science, 19 September 2008, Department of Physics, Vishakhapatnam, AP
		ii)	Effects of precipitation on radiowave propagation over India	SERC Training programme on atmospheric and space science, 20 September 2008, Department of Physics, Vishakhapatnam, AP
		iii)	Radio environment characterization for radio communication	Refresher course in Physics and electronics, Department of Physics and Astrophysics, 5 Dec 09, Delhi University, Delhi
		iv)	Media characterization for radio communication.	Intl symp on Antennas and Propagation, ICRS, Jodhpur, 10 December 08
		v)	Radio refractivity and precipitation climatology	Fourth short term course for the Indian Navy on Radio Meteorology and radio wave propagation over sea, 16 December 08, NPL, New Delhi.
		vi)	Media characterization for radio communication	International symposium on microwave and millimeterwave : Basics and Technology, 15 January, Bose Institute, Kolkata.
19.	H R Singh	i)	Biomedical aids and technologies" delivered for the Faculty development Program sponsored by Ministry of Human Resources Development	Govt. of India, National Institute of Technology, Calicut
		ii)	Importance of Ethics in Nanoscience.	National Seminar on "Advancement of nanotechnology in physics" ISPAT College, Rourkela. 8 Feb., 2009.
		iii)	Application of Nano-technology in Computer Hard disk.	Computer Society of India, SAIL Rourkela Steel Plant, Rourkela 7 Feb., 2009.
		iv)	Nanomagnetism and Ferrites R&D work at NPL.	Guru Nanak Dev University, Amritsar, Research Consultant to DRDO Project 12 - 13 March, 2009.
		v)	Evidence for Magneto-electric Coupling of Multiferroic Systems.	Third Indo-US Science & Technology round table meeting, lecture National Institute of Advanced Studies, IISc, Bangalore, 4 - 5 March, 2009.



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		vi)	Nanoscience & Magnetism.	Current trends in Physics" under the Center for advanced study program of UGC, lecture Department of Physics, PU, Chandigarh, March 30, 2009.
		vii)	New results in magnetic materials & measurements.	Refresher course in Physics & Electronics Department of Physics & Astrophysics, Delhi University , 12 December 2008.
		viii)	Need for Nanoscience and nanotechnology ethics.	International Conference on Magnetic Materials & its Applications for twenty first century, MMA-21", National Physical Laboratory, New Delhi, 22 October 2008.
		ix)	Different Humidity Sensors	HP University, Shimla, 12 December 2008.
		x)	Semiconducting Magnesium Ferrite Potential-Candidate for Humidity Sensing.	Gurukul Kangri Vishwavidhyalaya, 16 Oct 2008.
20.	Santa Chawla	Near UV emission and p-type conductivity in Zn _{1-x} Li _x O and Zn _{1-x} NaxO nanomaterial system		International Conference on Multifunctional Materials and Structures (MFMS-2008) held at Hong Kong.
21.	D. Haranath	i)	Multifunctional Fluorescent Magnetic Nanoparticles for Bio-related Applications	National Conference on Recent Advances in Nanoscience and Nanotechnology (NCRANT-2008), held at Shri Shankaracharya College of Engineering and Technology, Bhilai.
		ii)	Luminescence Measurements	CSIR program on Youth Leadership in Science (CPYLS-2008) held at National Physical Laboratory, New Delhi.
		iii)	Fluorescent and Magnetic Nanoparticles and Their Applications	National Seminar on Display Phosphors and Applications (NSDPA-2008) held at Saveetha Engineering College, Chennai during.
		iv)	Photoluminescence - Theory, Measurements and Applications	Workshop on Materials Characterization Techniques (WMCT-2008) held at National Physical Laboratory, New Delhi.
22.	Bipin Kumar Gupta	Investigations on the synthesis, characterization, hydrogenation behaviour of hydrogen storage materials: (a) Graphite Nanofibre (b) Sodium -aluminum hydride (c) AB5 Type alloy and its applications		Young Scientist Colloquium- Materials Research Society of India (MRSI) Kolkata Chapter., at Jadavpur University, Kolkata

