



National Conference on Energy and Environment- 2014
February 20th – 22nd 2014

Date	20/02/2014			DETAILS
Time	Venue: Nanasaheb Parulekar Hall, Department of Environmental Science, UoP			
10.00 -11.30 INAUGURAL SESSION	<ul style="list-style-type: none"> • Welcome: Prof. (Dr.) Subhash Ghaisas, Chairman, NC2E – 2014. • Opening remarks: Prof. (Dr.) Wasudev Gade, Hon'ble Vice Chancellor, University of Pune. • Felicitation & Inaugural Address: Chief Guest: Hon'ble Mr. Rajesh Tope, Minister of Higher & Tech. Education, Govt. of Maharashtra. • Vote of Thanks: Prof. (Dr.) Nitin Karmalkar, Co – Chairman, NC2E – 2014. 			
	KEY NOTE ADDRESS			<i>Chair: Padmashree Pramod Kale</i>
	<ul style="list-style-type: none"> • Dr. Anil Kakodkar: Energy for All by 2020: Challenges and Opportunities in India. • Dr. G. Thyagrajan: Food, Energy and Environment in India: Vision 2020. 			
11.30 - 12.00	HI-TEA			
	SESSION I: PLENARY TALK			<i>Chair: Prof. (Dr.) Pandit Vidyasagar.</i>
12.00 - 12.30	PT: Dr. Satish Kulkarni: <i>Innovating and Sustainable Energy Future - The Role of Universities.</i>			
12.30 - 13.00	PT: Prof. (Dr.) Ganapati Yadav: <i>Green Chemistry for Sustainable Development.</i>			
13.00 - 13.30	PT: Prof. (Dr.) Bhushan Patwardhan: <i>Food, Health, Environment and Pathways for New Diseases.</i>			
13.30 - 14.30	LUNCH			
IT: Invited talk CP: Contributory Papers	SESSION 2a: ENVIRONMENT (Food, Health and Biomedical waste management) <i>Venue: EVS, Seminar Hall.</i> <i>Chair: Prof. (Dr.) Dilip Deobagkar.</i>	SESSION 2b: ENERGY (Biotech in Energy and Environment) <i>Venue: Geology Seminar Hall.</i> <i>Chair: Prof. (Dr.) Dipti Deobagkar.</i>	SESSION 2c: ENERGY (New Materials in Energy and Environment) <i>Venue: EVS, Nanasaheb Parulekar Hall.</i> <i>Chair: Prof. (Dr.) Ganapati Yadav.</i>	
14.30 - 15.00	IT: Dr. Narayan Hegde: <i>Food Security and its impact on Environment.</i>	IT: Dr. Ashok Pandey: <i>Non - conventional renewable resources for the production of biofuels.</i>	IT: Dr. Dinesh Amalnerkar: <i>Functional materials for energy harvesting.</i>	
15.00 - 15.30	IT: Dr. Dilip Boralkar: <i>Biomedical waste, origin, policies and management: A way forward.</i>	IT: Dr. S. Venkata Mohan: <i>Waste biorefinary: A sustainable approach to harness bioenergy.</i>	IT: Dr. Shobha Shukla: <i>Planar metallic nano microstructures for EM wave manipulations.</i>	
15.30 - 16.40	CP1: S. Shewale: <i>Sugar recovery by Ultrafiltration for Green Environment.</i> CP2: N.M. Rane: <i>Removal of Cr (IV).</i> CP3: A. Ghodke: <i>Geothermal and solar thermal for desalination.</i> CP4: V. Narwade: <i>Soil rejuvenation by nanoceramic: removal of Lead particles.</i> CP5:	IT: Dr. Mukund Deshpande: <i>Biocontrol: An eco-friendly technology.</i>	CP1: S. B. Jambure: <i>Application of chemically synthesized CdO microcubes in dye sensitized solar cells.</i> CP2: CP3: CP4: Rahul Kambale: <i>Magnetolectric Energy Harvesting: Piezoelectric Macro Fiber Composite/Ni Generator.</i>	
16.00 - 16.30		IT: Dr. Pramod Chaudhary: <i>Energy green and clean initiatives.</i>		
16.30 - 16.40		CP1: Mahesh Khot: <i>Single Cell oil from ligning rich waste by oleaginous fungus...for biodiesel applications.</i>		
16.40 - 17.00	TEA BREAK			
	SESSION III:			<i>Chair: Capt. Chandrashekhkar Chitale</i>
17.00 - 17.15	Mr. Rameshwar Tailor: <i>Energy efficiency: The strategy for business success for 21st century.</i>			
17.15 – 17.30	Rekha and Sudhir Puranik Foundation: <i>A Living Lab: Off-Grid living with Alternative sources of Energy.</i>			
17.30 – 18.30	Panel Discussion: <i>Impact of Bio-Tech and New Materials for development of Energy on Environment, Health & Food Security.</i>			
19.30 onwards	Dinner: Department of Environmental Science, UoP.			



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SESSION IV: PLENARY TALK				Chair: Prof. (Dr.) Suhas Palshikar
9.30 -10.00	PT: Dr. Warner Platzer (Germany): Solar, Thermal future developments: A way forward.			
10.00 – 10.30	PT: Dr. Mahadev Srinivasan:			
10.30 - 11.00	PT: Dr. Subodh Wagale: Energy, Environment and social issues.			
11.00 – 11.15	TEA BREAK			
IT: Invited talk CP: Contributory Papers	SESSION 4a: ENVIRONMENT (Public participation and corporate responsibility in environmental protection) Venue: EVS, Seminar Hall. Chair: Dr. Dilip Boralkar	SESSION 4b: ENVIRONMENT (Environment protection and control of pollution) Venue: Geology Seminar Hall. Chair: Dr. Vishwas Gaikwad	SESSION 4c: ENERGY (Initiative in Green Computing) Venue: Geography Seminar Hall. Chair: Dr. Hemant Darbari	SESSION 4d: ENERGY (Solar Photovoltaics) Venue: EVS, Nanasaheb Parulekar Hall. Chair: Prof. (Dr.) Brijmohan Arora
	11.15 - 11.40	IT: Mrs. Norma Alvares: Balancing actions in Environmental jurisprudence in India.	IT: Dr. Paritosh Tyagi: Environment Regulation: Policy issues and options.	IT: Dr. Sandeep Joshi: Challenges in Energy efficiency of HPC facilities.
11.45 - 12.10	IT: Dr. Vijay Kulkarni: Corporate Social responsibility	IT: Shri. D. T. Devale: Implementation of Environmental regulations in Maharashtra.	IT: Mr. Sreenivas Subramoney: On the architecture of Power efficient performance in futuristic computing systems.	IT: Dr. Vinay Hasabnis: Solar energy: securitizing energy of the future.
12.15 - 12.40	IT: Dr. Ram Babu:	IT: Dr. Gufran Beig: Emission inventory in Indian Metrocities.	IT: Mr. Kedar Paranjpye: Green Initiative of Persistent systems limited.	IT: Dr. V.V.N. Kishore: Use of technology diffusion modeling to estimate future growth of solar energy in India.
12.40 - 13.05	IT: Dr. Claude Alvares: Environmental activism: Good or bad for India.	IT: Dr. Dayanand Panse:	CP1: Yogindra Abhyankar: Green computing trends in HPC. CP2: CP3:	CP1: Jaydeep Sali: Ultrasonic spray method for fabrication of organic solar cells. CP2: Manorama Lakhe: Investigation of electrodeposited CuInTe ₂ thin films for solar cell applications. CP3: N.A.Wadibhasme: Development of a Si:H Solar cells on flexible substrate at low process temperature using HWCVD.
13.05 - 13.30	CP:	CP1: A. Supekar: Groundwater acidification PMR. CP2: R. Ranpise: Groundwater pollution potential, PCMC area. CP3: V. Gaikwad: Water disinfection.... CP4: K. Kulkarni: Green and clean environment.		
13.30 - 14.30	LUNCH			



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IT: Invited talk CP: Contributory Papers	SESSION 5a: ENVIRONMENT (Waste management and recycling) <i>Venue: EVS, Seminar Hall.</i>	SESSION 5b: ENVIRONMENT (Environmental impact assessment and sustainable development) <i>Venue: Geology Seminar Hall.</i>	SESSION 5c: ENERGY (Computational Materials) <i>Venue: Geography Seminar hall.</i>	SESSION 5d: ENERGY (Solar Photovoltaics) <i>Venue: EVS, Nanasaheb Parulekar hall.</i>	SESSION 5e: ENERGY (Thermal aspects of solar energy) <i>Venue: EVS, Nanasaheb Parulekar Hall.</i>
	<i>Chair: Dr. Vikram Ghole</i>	<i>Chair: Prof. (Dr.) Vishwas Kale</i>	<i>Chair: Prof. (Dr.) Dilip Kanhere</i>	<i>Chair: Dr. Rajesh Kumar</i>	<i>Chair:</i>
14.30 – 15.00	IT: Dr. Gautham Reddy: <i>Economic imbalance in water management and recycling.</i>	IT: Prof. (Dr.) Namdeo Pawar: <i>Water quality management.</i>	IT: Dr. Gour Prasad Das: <i>First principles design of materials for hydrogen storage: From Complex Hydrides to Functionalized Nanostructures.</i>	IT: Dr. Gundu Sabde: <i>Economics of photovoltaics in India.</i>	IT: Dr. Sudhir Kumar Singh: <i>Hybrid solar thermal technologies for polygeneration.</i>
15.00 – 15.30	IT: Mr. Varun Boralkar: <i>MSW management: Technology options and practices in India.</i>	IT: Dr. Rakesh Kumar: <i>Sustainable development and housing industry.</i>	IT: Dr. Arun Venkatnathan: <i>Computer simulation of materials of relevance to alternate energy.</i>	IT: Dr. P. S. Deodhar:	IT: Dr. Abhijit Date: <i>Demand for fresh water and electricity: Combined desalination and power generation systems.</i>
15.30 - 16.00	IT: Dr. Vinitha Dhupkar: <i>Optimization of design and technologies for sewage treatment.</i>	IT: Dr. D. A. Patil: <i>Environmental appraisal of construction projects.</i>	CP1: Ebodollah Naderi: <i>Kinetic barriers for Cd and Te adatoms on Cd and Te terminated CdTe (111) surface using ab-initio simulations.</i> CP2: CP3:	IT: Dr. Brijmohan Arora: <i>Semiconductors for efficient energy solutions.</i>	IT: Dr. Kedar Sant: <i>Adsorption based compressors.</i>
16.00 - 16.30	IT: Dr. Priyangshu Sharma: <i>Remediation of Petroleum Sludge and reclamation of hydrocarbons.</i>	IT: Dr. Sanjay Deshpande: <i>Infrastructural development and its impact on environment.</i>		IT: Dr. Sahebrao Mande: <i>Possibility of agriculture under solar panel shadow regions.</i>	IT: Dr. Arindam Chowdhury: <i>Doped Semiconductor Nanocrystals: Insights from single-particle spectroscopy.</i>
16.30 – 17.00	CP1: S. Laxmi: <i>Direct azo dyes.</i> CP2: M. Goyal: <i>Sustainable and economical approach to waste management.</i>	CP1: V. Ghadi: <i>Nanomaterials in water treatments</i> CP2: S. Kale: <i>Flouride urolititasis.</i> CP3: K. Shambhu: <i>Attributed reduction for EIA.</i>		IT: Mr. Vijay Sonavane: <i>Challenges in Grid integration of the renewable energy resources.</i> Venue: Nanasaheb Parulekar Hall, Department of Environmental Science, UoP.	
17.00 – 17.30	CP3: K. Jadhav: <i>Agricultural waste treatment...</i> CP4: R. Bhaskar: <i>Chemical Cleaning of reserve...</i> CP5: Y. Sonawane: <i>Conversion of thermo plastic.</i>	CP4: U. Kulkarni: <i>The environmental impact assessment of siltation in the Lake Wular, India.</i> CP5: N. S. Muchate: <i>Physiological response.</i>			
17.30 – 17.45	TEA BREAK				
17.45 – 18.30	SESSION VI: POSTER PRESENTATIONS				
19.30 onwards	DINNER				



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	SESSION VII: PLENARY TALK				<i>Chair: Dr. Warner Platzer</i>
9.30 -10.00	PT: Dr. Ramkrishna Sonde: <i>Poly generation: A grid independent complete energy solution at distributed scale.</i>				
10.30 - 10.30	PT: Dr. B. D. Kulkarni:				
10.30 - 11.00	PT: Dr. Prasad Modak: <i>Low Carbon Economy? – Will it address India's Environment and Energy related woes?</i>				
11.00 - 11.15	Tea Break				
IT: Invited talk CP: Contributory Papers	SESSION 8a: ENVIRONMENT (Industrial Pollution Control) Venue: EVS, Seminar Hall. Chair: Dr. Dilip Boralkar	SESSION 8b: ENERGY (Energy from Waste) Venue: Geology Seminar Hall. Chair: Dr. Subodh Wagale	SESSION 8c: ENERGY (Energy Storage and Harvesting) Venue: Geography Seminar Hall. Chair: Dr. Bharat Kale	SESSION 8d: ENERGY (Thermal aspects of solar energy) Venue: EVS, Nanasaheb Parulekar Hall. Chair: Prof. (Dr.) Subhash Ghaisas.	
	11.15 - 11.45	IT: Dr. Amar Supate: <i>Combined Effluent Treatment Plants and Common facilities for Industrial Waste management.</i>	IT: Dr. Kalyan Raman: <i>Waste water to energy.</i>	IT: Dr. Dinesh Kharat: <i>Energy storage and harvesting.</i>	IT: Dr. Kiran Deshpande: <i>Selective coating for Concentrated Solar Thermal.</i>
11.45 - 12.15	IT: Shri. Somnath Malgar: <i>Best Practices in Industrial waste Management.</i>	IT: Ashok Srinivas: <i>India's Energy security: Some areas of concern.</i>	IT: Dr. Nagesh Kini: <i>Energy material – H to storage.</i>	IT: Dr. Ahsan Absar: <i>A realistic overview of potential and prospects of harnessing geothermal energy in India.</i>	
12.15 - 12.45	IT: Dr. Sadashiv Lonkar: <i>Waste Minimization and Clean Technology Applications.</i>	IT: Santosh Gondalekar: <i>Biomass based energy solution.</i>	IT: Dr. Pradeep Borse: <i>Hunt for efficient and stable hydrogen producing material.</i>	CP1: Ramchandra Kulkarni: <i>Mathematical Modeling and analysis of Flux Density Distribution on the surface of a Solar Thermal Receiver due to Heliostats.</i>	
12.45 - 13.15	CP1: K. Shirke: <i>Appraisal of Heavy Metals...Ankaleshwar.</i> CP2: Nisha Choudhary: <i>Potential assessment of ground vegetation and soil organic carbon sequestration.</i> CP3: Yogesh Landge: <i>Industrial waste water treatment.</i> CP4:R. Vasudevan: <i>Indoor Air quality control using CO2 based demand control ventilation.</i>	IT: Priyadarshini Karve: <i>Waste to energy at Micro-scale.</i>	CP1: Shital Kahane: <i>CdO- CdS Nano composites: hydrogen generation.</i> CP2: Sanjay Apte: <i>Unique, highly stable orthorhombic CdS quantum dots.</i> CP3: Ankur Soam: <i>Silicon nanowires for electrochemical capacitor.</i>	CP2: Ratnadip Joshi: <i>Modeling and optimization of fluidized bed coal gasifier.</i>	
13.15 – 13.30		CP1: CP2: CP3:		CP3: CP4:	
13.30 - 14.30	LUNCH				



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14.30 – 15.00	PT: Dr. Pradip Dutta: <i>Distributed Solar Thermal Systems for India: Suitability and Challenges.</i>	
IT: Invited talk CP: Contributory Papers	SESSION 9a: ENVIRONMENT (Climate Change) <i>Venue: EVS, Seminar Hall.</i>	SESSION 9b: ENERGY (Smart control in Energy Management) <i>Venue: EVS, Nanasaheb Parulekar Hall.</i>
	<i>Chair: Prof. (Dr.) Namdeo Pawar</i>	<i>Chair: Prof. (Dr.) Arvind Shaligram</i>
15.00 – 15.30	IT: Dr. Govind Pant: <i>Climate Change: A Global perspective.</i>	IT: Dr. Rahul Pendharkar: <i>Grid scale energy storage.</i>
15.30 – 15.50	IT: Dr. Mahendra Bhutiyani: <i>Implications of Climate Change in NW Himalayas: Adaptations and Mitigation Strategies.</i>	IT: Mr. Prafulla Wadaskar:
15.50 – 16.10	IT: Dr. Dilip Chate: <i>Air quality, its impact (on Health and Agriculture), Air pollution monitoring and forecasting control measures.</i>	IT: Mr. Sridharan (Fluke):
16.10 – 16.30	Prof. (Dr.) Hema Achyuthan:	CP1: A. Swarnakar: <i>Stand- alone Solar Power: A solution for Defence Mobile Power Supply.</i> CP2: Neha Deshpande: <i>Demand side management of monitoring the power transmission and distribution system using Internet of Things.</i> CP3: Rajendra Khairnar: <i>Development of grapheme and CNT energy materials for gas sensing.</i>
	CP1: D. Patel: <i>CO₂ and energy exchange.</i> CP2: U. Kiran: <i>Ecological status of Mangroves...</i> CP3: P. Singh: <i>CZ management in sea level rise.</i>	
16.30 – 17.00	TEA BREAK	
	Panel Discussion: <i>Importance of Public Finance in Environment Protection</i>	Chair:
17.00 – 18.00	Distinguished Panalists: <i>Manager: Samruddhi Fund of SIDBI;</i> <i>Shri. Chandrashekar Iyer, Executive Director, Meghraj Capital Serives, U,K., IL&FS</i>	
18.00 onwards	Concluding session: Presentation of summary of Technical session: Discussion, Recommendation and Resolutions, Closing Remarks.	