



Programme of SWMT – 2014

**The 2014 International Conference on
Solid Waste Management and Technology
8-9th January, 2014**

Jointly organized by

**Research and Development Centre in Pharmaceutical Sciences & Applied
Chemistry, Poona College of Pharmacy, Bharati Vidyapeeth University, Pune
Pune Municipal Corporation, Pune
CSIR-National Chemical Laboratory, Pune
The Society for Polymer Science, India**



PROGRAMME

Day-1: Wednesday, 8th January, 2014

Venue: Bharati Vidyapeeth University, Poona College of Pharmacy, Erandawane, Pune

Session-1

Time	Programme
8.30-10.00 hr	Registration
10.00-11.30 hr	Inauguration Function Chief Guest: Ms. Chanchala Kodre, Mayor, PMC, Pune Chairman: Prof. Dr. Shivajirao S. Kadam , VC, BVDU, Pune Guest of Honour: Dr. Sourav Pal, Director, CSIR-NCL, Pune Guest of Honour: Mr. Mahesh Pathak, Commissioner, PMC, Pune Guest of Honour: Mr. Vishal Tambe, Chairman, PMC, Pune President SPSI: Dr. S. Sivaram, Bhatnagar Fellow, CSIR-NCL, Pune Prof. K.R. Mahadik, Chairman, SWMT – 2014 Dr. R. P. Singh, Secretary, SWMT – 2014 Prof. A. P. Pawar, Convener, SWMT - 2014
11.30-12.00 hr	Tea Break
12.00-13.00 hr	Keynote Lecture: Dr. Sourav Pal, Director, CSIR-NCL, Pune Chairman: Prof. Ram Prakash Singh, IISER, Pune
13.00-14.00 hr	Lunch and Poster Display

Session-2



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Time	Hall-A Chairman: Dr. Sourav Pal, CSIR-NCL, Pune	
14.00-14.45	Plenary Lecture -1: Scenario of Solid Waste Management in Pune City; Ketaki Ghadge, PMC, Pune	
	Hall-A Chairman: Prof. M.-C Choi; Pusan National University, Republic of Korea and Dr. S.H.Bhosale, PCP, BVDU, Pune	Hall-B Chairman: Dr. R. Rangaprasad; SIES School of Packaging & Packaging Technology Center, Mumbai and Dr. N. N. Chavan, CSIR-NCL, Pune
14.45-15.15	IL-1 Utilization of Industrial waste product (Glycerol) generated during biodiesel production to improve the low temperature properties of vegetable oils; Shailesh N. Shah; M. S. University of Baroda, Gujarat	IL-2 Waste to Wealth - Technologies for Biofuels and Biochemicals; Srini Rajagopalan; Praj Matrix – The Innovation Centre (Division of Praj Industries Ltd.), Pune
15.15-15.45	IL-3 Composite membranes from polysulphone and carbon nanotubes for water-treatment technologies; C. N. Murthy; M. S. University of Baroda, Vadodara	IT – 4 Biological Synthesis of TiO ₂ Nanoparticles Using Murraya Koenigii Leaf Extract and their Optical Characterization; Navinchandra G. Shimpi; North Maharashtra University, Jalgaon
15.45-16.15	IL-5 Biodegradable Polycaprolactones derived from Polycondensation of ε-Caprolactone and different diols; G. S. Mukherjee; Defence Research &	IL- 6 Rice Straw- A Ligno-Cellulosic Solid Waste as a Source of Bio-Ethanol and Value Added Chemicals; R. K. Jain; Central Pulp & Paper Research Institute and CSIR-Indian Institute of Petroleum,



	Development Organization, Dehradun New Delhi
16.15-16.30	Tea Break
16.30-19.00	Poster Session: PP- 1 to PP- 35
19.00-20.30	Dinner

Day-2: Thursday, 9th January, 2014

Venue: Bharati Vidyapeeth University, Poona College of Pharmacy, Erandawane, Pune

Session-3

Time	Hall-A Chairman: Prof. S. L. Bodhankar; PCP-BVDU, Pune	
9.30-10.15	Plenary Lecture -2: Biopolymers : Green Solution for Solid waste Management; R. Rangaprasad; SIES School of Packaging & Packaging Technology Center, Sri Chandrasekarendra Saraswathy Vidypuram, Nerul E, Navi Mumbai	
	Hall-A Chairman: Prof. S. L. Bodhankar, PCP-BVU, Pune and Vasant V. Chabukswar; Nowrosjee Wadia College, Pune	Hall-B Chairman: Dr. Soumen Sensarma, Tata Chemicals Innovation Centre, Pune and Mr. S.R.Chunekar, Serum Institute of India Ltd. Pune
10.15-10.45	IL-7 Development of Green Nanocomposites From Unexplored Biomass – An Approach Towards Minimizing Solid Waste Problem At Source; Suvangshu Dutta; Advanced	IL-8 Plasticization of poly(lactic acid) (PLA) through chemical grafting of poly(ethylene glycol) (PEG) via in situ reactive blending; M.-C Choi; Department of Polymer



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	Chemical Research Laboratory, D.R. College, Assam	Science and Engineering, Pusan National University, Republic of Korea
10.45-11.15	IL-9 Polyaniline Nanocomposite as Sensing Elements for Gases; Satyendra Mishra; North Maharashtra University, Jalgaon	IL-10 Development & Applications of Polymeric Materials from Algae oil; Omprakash S. Yemul; School of Chemical Sciences, Swami Ramanand Teerth Marathwada University Nanded
11.15-11.30	Tea Break	
11.30-11.50	OL-1 Biodegradation of commodity polymers using novel core-shell materials; Navinchandra G. Shimpi; Department of Nanoscience and Technology, North Maharashtra University, Jalgaon, Maharashtra, India	OL-2 Applications Carbon Nanotubes In Waste Management; D. P. Hansora; University Institute of Chemical Technology, North Maharashtra University, Jalgaon, Maharashtra
11.50-12.10	OL-3 Photo-durable Green Bionanocomposite Membranes; Omkar S. Kushwaha; CSIR-National Chemical Laboratory, Pune	OL-4 Identification Of Problems And Remedies For Solid Waste At (Indian) Village Level; M. S. Kadam; Department of Mechanical Engineering, BMIT, Solapur
12.10-12.30	OL-5 Utilization of Wood Flour for Preparation of Polypropylene Composites; Mahendra R. Nevare; School of Chemical	OL-6 Reduction in Biochemical Oxygen Demand and Chemical Oxygen Demand of Agro-industrial Waste Using Batch



	Sciences, North Maharashtra University, Jalgaon	Fermentation; Sruti Mathur; Amity University Rajasthan, Jaipur
12.30-12.50	OL-7 Evaluation of heavy metal tolerance in Antarctic isolate BRI 35; Sonal Maida; Dept. of Microbial Biotechnol., Rajiv Gandhi Institute of I.T. and Biotechnology, BVDU, Pune,	OL-8 Biomedical and Animal Waste Management; Arulmozhi. S; Department of Pharmacology, Bharati Vidyapeeth University, Poona College of Pharmacy, Erandwane, Pune
12.50–13.50	Lunch	

Session-4

Time	Hall-A Chairman: Dr. G. S. Mukherjee; Defence Research & Development Organization, New Delhi	
13.50-14.35	Plenary Lecture-3: High Performance Polymer Solar Cells; Prof. Ram Prakash Singh; Indian Institute of Science Education and Research, Pune.	
	Hall-A Chairman: Dr. Navinchandra G. Shimpi, NMU, Jalgaon and Prof. Varsha Pokharkhar, PCP-BVDU, Pune	Hall-B Chairman: Prof. Suneela S. Dhaneshwar, PCP-BVDU, Pune and Dr. S. Rajagopalan, Praj Industries Ltd., Pune
14.35-15.05	IL-11 Detection of Health hazardous H ₂ S Gas by using Poly(indole-metal	IL-12 Nanoparticles Induced Controlled Biodegradation of Polymers; Pralay Maiti; Indian



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	nanocomposites) chemical sensor; Vasant V. Chabukswar; Nowrosjee Wadia College, Pune	Institute of Technology (Banaras Hindu University), Varanasi
15.05-15.35	IL-13 Bulk to nanomaterials for extraction of inorganic ions from waste water; G.V.N. Rathna; National Chemical Laboratory, Pune	IL-14 Clay nanocomposites for Biodegradation of Poly(olefins); Namrata S. Tomer; Mayo Clinic, Rochester, MN, USA
15.35-16.05	IL-15 Polymer Silica nanomaterial for coating industries; Soumen Sensarma TATA Chemicals Innovation Center; Innovation Centre, Pirangut Industrial Area, Pune	IL-16 Development and pilot process scale up of Sildenafil and its assessment by Green Chemistry principles; S. H. Bhosale; Poona College of Pharmacy, B.V.D.U., Pune
16.05-16.25	Tea Break	
16.25-16.55	IL-17 Exploitation of Sugarcane Bagasse for Potential Applications; Yuvraj Singh Negi; Department of Polymer and Process Engineering, Indian Institute of Technology Roorkee, India	IL-18 Management & Reprocessing of Nuclear Waste; Gandhali A Deshpande; Bharati Vidyapeeth Deemed University, Erandwane, Maharashtra, India
17.05-17.35	IL-19 Solid Bio-Medical Waste Disposal Management S. R. Chunekar; Serum Institute of India Ltd., Hadapsar, Pune	IL-20 How safe is plastic material disposal in medical healthcare Industry?; BSR Reddy; C L R I, Chennai
17.35-18.00	Concluding Session	



Key Note Lecture: 01

Plenary Lecture: 03

Invited Lecture: 20

Oral Lecture: 08

Poster Presentations: 35

Poster Presentations

PP-01	Municipal Solid Waste Management by Gamma-Irradiation; Omkar S. Kushwaha; CSIR-National Chemical Laboratory, Pune, India
PP-02	Solid Waste Management through Plastic Recycling; Sunil P. Lonkar; The Petroleum Institute, Abu Dhabi, UAE
PP-03	Increase in production of biosurfactant from <i>Oceanobacillus</i> sp BRI 10 using low cost substrates; Priyanka Parhi; Bharati Vidyapeeth Deemed University, Pune, India
PP-04	Organocatalysis: A green strategy for the synthesis of Small Molecule Natural Products (SMNPs); Indresh Kumar; Birla Institute of Technology and Science, Pilani, India
PP-05	Carbon Nanomaterials for Conversion of Carbon Dioxide into Fuel Precursors; Bijandra Kumar; University of Illinois, Chicago, USA
PP-06	Towards the Role of Chitosan Nanocomposites for Removal of Toxic Metal Ions; Dilip Depan; University of Louisiana, Lafayette, USA.
PP-07	Production Of Oil From Waste By Pyrolysis; Shubhangi Morkhade; North Maharashtra University, Jalgaon, India
PP-08	Plastic Waste Management; Shital Lanjewar; North Maharashtra University, Jalgaon, India
PP-09	Room Temperature Sensing of LPG by Polyaniline/Zinc oxide



	Nanocomposites; Tanushree Sen; North Maharashtra University, Jalgaon, India
PP-10	High Performance Epoxy Adhesive; R. S. Gour; CSIR-National Chemical Laboratory, Pune
PP-11	Biopolymer Mesoporous Silica for Biomedical Waste Management; Vijay Kumar Rana; ETH Hönggerberg, Zürich, Switzerland
PP-12	Adsorption studies of Cd (II) with tannin-formaldehyde/acetaldehyde resins derived from waste tea; Kishor Rajdeo, CSIR-National Chemical Laboratory, Pune
PP-13	Nanotechnology for Waste Management; M. Changez Khan; Gwangju Institute of Science and Technology, South Korea
PP-14	Plasticization of poly(lactic acid) (PLA) through chemical grafting of poly(ethylene glycol) (PEG) via in situ reactive blending; M.-C Choi; Pusan National University, Busan, Korea
PP-15	Manufacturing eco-friendly inorganic anti-microbial agent through recycling waste oyster shells and development of semi permanent bioplastics; I.-K. Paik; Korea Institute of Footwear & Leather Technology, Busan, Republic of Korea
PP-16	Study of various effects on heavy metal ion chelation using polymer supported DB18C6 by Spectrophotometric method; Sachin Mane; CSIR-National Chemical Laboratory, Pune
PP-17	Greener Approach with Mixed Solvent Chemistry through Synergistic Solvation; Shradhey Gupta & Puspall Mukherjee; Indian Institute of Technology Kanpur, Kanpur, India
PP-18	Cellulose/CNT Based Green Bio-Nanocomposite Films and Membranes for Advanced Technologies; N. Kushwaha; Indian Institute of



	<i>Technology, Powai, Mumbai, India</i>
PP-19	Bionanocomposites of Grafted Chitosan and Metal Oxide Nanoparticles for Biomedical Waste Management; <i>Pradeep K. Annamalai; The University of Queensland, Brisbane, Australia</i>
PP-20	Application of Biomaterials in industrial water waste management; <i>Sangeeta Kumari; CSIR-National Chemical Laboratory, Maharashtra, India</i>
PP-21	Recycling of Nylon From Rubber Tire Waste; <i>Bhaskar B. Idage; Polymer Science & Engineering Division, CSIR-National Chemical Laboratory, Pune</i>
PP-22	Green synthesis of thioester prodrug: A comparative study between conventional and microwave assisted synthesis; <i>Neha Bhilare; Bharati Vidyapeeth Deemed University, Poona College of Pharmacy, Erandwane, Pune-411038, Maharashtra, India</i>
PP-23	Strategies for the reduction of pharmaceutical waste into the environment; <i>Rahul Jain; Poona College of Pharmacy, BVDU, Pune</i>
PP-24	Innovative Technology for Waste management in Pharmaceutical Green Chemistry; <i>Sanal Dev , Bharati Vidyapeeth Deemed University, Poona College of Pharmacy, Erandwane, Pune</i>
PP-25	Agriculture Waste as an Energy Source; <i>Sumit R Deore, Bharati Vidyapeeth Deemed University, Poona College of Pharmacy, Erandwane, Pune</i>
PP-26	Pharmaceutical waste management; <i>Pooja Agrawal, Bharati Vidyapeeth Deemed University, Poona College of Pharmacy, Erandwane, Pune</i>

