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**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***

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| **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 TiO2 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 & Development Organization, New Delhi*** | **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, Dehradun*** | |
| 16.15-16.30 | Tea Break | | |
| 16.30–19.00 | **Poster Session: PP- 1 to PP- 35** | | |
| 19.00–20.30 | **Dinner** | | |
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**Day-2: *Thursday, 9th January, 2014***

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

***Session-3***

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| **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; A*dvanced Chemical Research Laboratory, D.R. College, Assam*** | **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 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 Sciences, North Maharashtra University, Jalgaon*** | **OL-6** Reduction in Biochemical Oxygen Demand and Chemical Oxygen Demand of Agro-industrial Waste Using Batch 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***

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| **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 H2S Gas by using Poly(indole-metal nanocomposites) chemical sensor; **Vasant V. Chabukswar; *Nowrosjee Wadia College, Pune*** | **IL-12** Nanoparticles Induced Controlled Biodegradation of Polymers; **Pralay Maiti; *Indian 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**

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