# **SWMT - 2014**

# The 2014 Conference on Solid Waste Management and Technology January 8–9, 2014











# Jointly organized by

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

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#### **Theme**

The Society of Polymer Science (India), SPS-I, is a National Society dedicated to the cause of scientific research, dissemination and education; and conducts National / International Conferences / Symposiums in the country, an activity that was initiated in 1991 with the organization of Polymers-91. These conferences provide a platform for scientists from academia, research institutes, consultants and industry to meet, interact and discuss current themes in the area of conference. The Society also encourages organization of regional meetings at different parts of India.

In the Year of its 'Golden Jubilee Celebrations (1964 – 2014)', Bharati Vidyapeeth is organizing at its Poona College of Pharmacy Campus, **The 2014 Conference on Solid Waste Management and Technology (SWMT - 2014)**, a topic of immense interest to scientists from academia, research, government officials and industry. The conference will be the premier forum for the presentation of new advances and research results in the fields of Solid Waste Treatment / Management and Technologies. The conference will bring together leading researchers, engineers and scientists in the domain of interest from around the world. SWMT - 2014 will be held during January 8 - 9, 2014 at Bharati Vidyapeeth University - Poona College of Pharmacy, Advanced Research Centre in Pharmaceutical Sciences & Applied Chemistry, Erandawane, Pune and CSIR – National Chemical Laboratory, Pune.

Due to rapid industrial growth and changing life styles has resulted in generation of huge volume of hazardous wastes in the country. In addition to this, hazardous wastes sometimes get imported mainly from developed countries for re-processing or recycling. Thus, scientific disposal of hazardous wastes has become a key health and environmental issue in India, therefore, the Solid Waste Management needs proper attention to reduce possible health & environmental hazards. This event will provide a platform for exchanging innovative ideas across the Solid Waste Treatment/Management and Technologies and discuss the current state of the art and future requirements to handle the up growing problem in all the related areas. Separate sessions will target basic problems, frontier technologies, industrial applications and business developments. The comprehensive discussions may make some recommendations for effective treatment technologies for an effective solid waste management and action plan. The main areas of the conference will be:

- Energy recovery and weathering / thermal treatment
- Waste reduction: plastic waste, household waste, municipal waste, pharmaceutical & biomedical waste (hospital waste), agriculture waste, solid-liquid waste and industrial waste
- Landfilling, composting and biological treatment
- Recycling and utilization of waste material
- Environmental issues and public involvement concerning solid waste
- Case studies
- Social scientific interections : social development programmes
- Integrated waste management
- Nano and biomaterial for waste treatment
- Innovative technologies
- Economics and policy regulations
- All other related topics

#### **Publication**

Authors of accepted oral / poster papers will be expected to present the work during the conference and submit the completed manuscript (4 – 5 pages) as per guidelines before deadline. All accepted papers will be published in international journal 'Journal of Solid Waste Technology and Management (ISSN: 1088-1697)' and 'Advanced Materials Research (ISSN: 1022-6680)' and will be indexed in the major academic databases.

# **Important Dates**

Deadline for abstract : October 30, 2013

Notification for acceptance : November 15, 2013

Deadline for full paper : November 30, 2013

Last date for advance registration : December 15, 2013

Last date for late registration : December 21, 2013

(20% extra charges)

# **Sponsorship**

An event of the conference can be sponsored by donating Rs. 1.00 lakh (USD 2000). This entails mention of banners, brochures, souvenirs etc. and registration of four delegates and a full page advertisement.

# Co-sponsorship

Any event of the conference any event can also be co-sponsored by donating Rs. 50000/- (US\$1000). This entails mentioned on the banners, brochures, souvenirs etc and registeration for two delegates.

### Souvenir

Back page Advertisement : Rs. 11000/Inside Cover Page : Rs. 9000/Full Page (Color) : Rs. 7000/Full Page (B/W) : Rs. 5000/-

### **Exhibition**

An exhibition will be organized in conjugation with the conference.

Limited stalls (3m X 3m) are available.

#### **Conference Venue**

The conference will be held at Bharati Vidyapeeth University, Poona College of Pharmacy, Erandwane, Pune - 411038, India.

# Language

English is the official language of the conference. No translation facility is available.

### **Presentation**

Computer aided LCD Projections systems will be available. All speakers are requested to bring soft copies of their presentation.

# Registration

Overseas delegates : US\$ 250 Accompanying person :US\$ 150

Indian delegates

a) Industry : Rs. 7000/b) Academia/R & D Institution : Rs. 4000/c) SPS Members : Rs. 3000/d) Students/Research Scholars : Rs. 1500/-

Registration fee by demand draft will be made in favor of Principal, Poona College of Pharmacy, (SWMT-2014), Bharati Vidyapeeth Deemed University, Erandwane, Pune - 411038, India Additional programmes, including tours / Sight-seeing at additional cost may be arranged subject to advance information.

Latest information about the conference will be available on the conference website: www/swtt.com

## **Hotel Accommodation**

Accommodation will be arranged on request in hotels/guest houses. List of hotels & tariffs will be put on the website.

## **About Pune**

The history of Pune (a city in Maharashtra, India) begins in the 6<sup>th</sup> century and is closely linked to the history of Shivaji, the founder of the Maratha empire and to the Peshwa. By 1730, the palace of Shaniwarwada had been constructed on the banks of the Mutha river, ushering in the era of Peshwa control of the city. The patronage of the Peshwas resulted in the construction of many temples and bridges in the city, including the Parvati temple and the Ganesh, Sadashiv, Narayan, Rasta and Nana Peths.

After Indian Independence, Pune saw a lot of developments, such as the establishment of the National Defense Academy at Khadakwasla, National Chemical Laboratory at Pashan. Industrial developments started around 1950-1960s in Hadapsar, Bhosari, Pimpri and Parvati. Telco (now Tata Motors) started operations in 1961, which gave a huge boost to the automobile sector. After 1970, Pune emerged as the leading engineering city of the country with Telco, Bajaj, Kinetic, Bharat Forge, Alfa-Laval, Atlas Copco, Sandvik and Thermax expanding their infrastructure. General Motors, Volkswagen and Fiat have set up facilities near Pune. Pune also has several pharmaceutical industries such as Lupin, Emcure, Sai Adventinus, Serum India, Centur and Hikel. By this time the city had gained the reputation of being the 'Oxford of the East' due to a large number of educational institutes. Recently, Pune saw huge development in the Information Technology sector and IT Parks formed in Aundh, Hinjewadi and Nagar road and has more than five Lakh (500,000) IT professionals.

Pune Municipal Corporation, Pune is the leading and most efficient body in the country for waste treatment and management. A visit of the delegates will be organized to the sites of Waste Treatment plants in Pune.

### Bharati Vidyapeeth Deemed University, Pune

Bharati Vidyapeeth was founded in 1964 by Dr. Patangrao Kadam, a visionary educationist. The motto of Bharati Vidyapeeth is "Social Transformation through Dynamic Education". In a span of 40 years, Bharati Vidyapeeth has grown into a leading educational consortium in India with 154 different institutions. Bharati Vidyapeeth is celetrating its 'Golden Jubilee Year (1964 – 2014)' and therefore, organizing SWMT – 2014 for public – private interations at its Poona College of Pharmacy Campus, Erandwane, Pune.

In recognition of the academic excellence, achieved by Bharati Vidyapeeth University, Human Resource Development Ministry, Govt. of India, on the recommendation of University Grant Commission, accorded a status of Deemed to be University to 12 of its institutions in 1996 and today it has 29 educational and 3 research institutes under its ambit. Bharati Vidyapeeth Deemed University, Pune is re-accredited by NAAC with coveted 'A' grade and MHRD also accorded 'A' grade status to the University.

# Poona College of Pharmacy, Pune

Poona College of Pharmacy has been established in 1981. It is the pioneer college of Pharmacy in University of Pune. In a span of 32 years, it has grown into an instate which provides B.Pharm., M.Pharm. in 6 specialization, Pharm. D. (Post Baccalaureate) and has 9<sup>th</sup> rank in the country. It is recognized by Pharmacy Council of India, All India Council for Technical Education and University Grant Commission. In addition, the college is an ISO-9001-2008 certified institute. The research projects from DST, DBT, UGC, AICTE, DRDO, ICMR and industries have successfully implemented / completed from the college. More than 500 research papers have been published in National / International journals and 50 patents have been filed till date.

## **Pune Municipal Corporation, Pune**

Pune, the second-largest city in Maharashtra, offers a shining example of what a city can do to manage the growing menace of garbage as it urbanizes at a rapid pace. The rapid growth of industry in Pune, particularly the concentration of IT companies and of automotives and autocomponents, has added a modern flavour to its development.

The Pune Municipal Corporation (PMC) has been trying a range of solutions from the most traditional and informal to the most modern and scientific, converting waste to energy with state-of-the-art environment-friendly technology and developing scientific landfills for depositing the much reduced garbage that cannot be re-used. Waste-pickers' cooperatives are participating in the clean-up as much as the corporate sector with the latest technology.

Pune generate approximately 1500-1600 metric tons of solid waste per day. PMC deploys 125 trucks for door-to-door collection of waste in slums and commercial areas, 25 truck for hotel waste. SWaCH (Solid Waste Collection and Handling) cooperative, a 6000 members dedicated team, is involved in door-to-door collection and short trash in community waste bins around the city. PMC and Pune-based Janwani, the social initiative of the Maratta Chamber of Commerce, Industries and Agriculture (MCCIA) introduced the pilot initiatives in 2012 to add value to the waste. Incentives in the form of tax rebet is offered to the establishments practicing friendly measures such as organic processing, solar system and rain water harvesting.

Best Practices of PMC to generate wealth out of waste

### **Integrating the Informal Sector in Municipal Waste Management**

Pune city's efforts to partner with waste pickers and unions to provide better service - 2300 wastepickers cover about 4 Lakhs HHs: Saved more than Rs. 15 to 17 crores per annum in waste handling costs Waste pickers & itinerant buyers collect recyclable materials that amount to 15% of municipal solid waste.

**Hanjer Biotech Project at Urali and Fursungi:** This project has a landfil to dispose scientifically, the inert waste which is approximately 15-20% of the total waste processing and the plant is operating at its full capacity of 1000 TPD.

Ajinkya Biofert & Disha Waste Management at Hadapsar: Three organic waste composting processing plants of 100 TPD capacity each, are functional with full capacity of total 300 TPD.

**Biomethanation-** *cum-Power Generation Plants*: Total 98-100 MT of organic waste is being treated in nineteen biogas plants of five tons capacity each and one three tons capacity in different wards/locations of the city.

Waste to Energy Plasma Gasification Plant at Ram Tekdi, Hadapsar: Waste to renewable energy plants of 700 TPD capacities by Rochem Separation System are operating to the capacity of 300 TPD and will operate to their fullest capacity in next six months. A 10 MW energy from 700 tons of waste is generated by plasma pyrolysis technology.

**Zero Garbage Ward at Katraj and its replication in 20 more prabhags:** It is an unique joint initiative of PMC, Janwani, Cummins India with a support from SWaCH, NGOs, Corporators and citizens. ISO Certification for this Decentralized Solid Waste Management System makes it easy to transfer and replication.

Reducing Carbon Emissions with Eco friendly technologies:

The total CO<sub>2</sub> equivalent emissions could have been 5.58 times the current emissions in case PMC had not installed the scientific technologies to process MSW in Pune city.

PMC aims to create awareness amongst the citizens on the benefits of segregation of wet and dry waste, recycling and to develop technologies to process biodegradable waste and promote

scientific disposal. An additional policy that affects the zero garbage wards is the progressive move by PMC and also aims zero garbage ward and SWaCH models. Pune can become a model of sustainable waste disposal for other cities in India and across the globe.

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Name:	
Designation:	
Department:	
Affliation (University/Institute)	):
Title of Paper:	
Speaker: Invited:	Oral presentation
Poster Presentation	Participation only
Details of Bank draft / Registra	tion fee Transfer:
Tel. No.(Office)	Residence:
Mobile:	E-mail:
Accomodation required: Yes -	No

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