



**ISWMAW**

**8<sup>th</sup> IconSWM 2018**

**8<sup>th</sup> International Conference on  
Sustainable Waste Management**

Theme: Waste Management as Economic Industry towards Circular Economy

# Programme Book

International Society of Waste Management, Air and Water  
[www.iswmaw.com](http://www.iswmaw.com)



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## Some important Points :

- 1) The delegates may hire taxis through APPS from Airport, Railway Station, Bus Terminus. Hired Taxis are available in plenty in the city. The distance from Airport to ANU, Guntur is nearly 20 KM.
- 2) The presentation of the Technical Sessions is of 10 mins. Duration and in the Plenary 15 mins. Duration. The Presentation should be restricted within the stipulated time. All QA will be taken up at the end of the session by the Session Chair and the Co-chair.
- 3) The Presenters are requested to kindly send the PPT Presentation materials to: [cric9000@gmail.com](mailto:cric9000@gmail.com) by 20/11/2018. They are also requested to contact the respective members in the Hall Management for Technical Session in the particular Hall or the Technical Desk atleast 30 mins before the sessions start to check if the PPT has been uploaded in the Laptop.
- 4) The rapporteurs are requested to prepare one page note on the proceedings of the session and email it to: [iconswm.services@gmail.com](mailto:iconswm.services@gmail.com) once the session is completed or handover the softcopy / hard copy to the Technical Desk (Mr. Suresh Mondal-9836911950, Mr. Biswajit Debnath- 9874384611. Kindly Note that the inputs of the rapporteurs are very important to prepare the chair summary that will be presented in the Valedictory Session. The Chair / Co-chair / Moderators / Rapporteurs are requested to kindly contact the Hall Management members / Technical Desk and requested to kindly report to respective Halls 15 mins. before the schedule.
- 5) The Concurrent Sessions will start as per schedule even if the time in the Plenary Sessions over shoots. The Hall Management, Technical Desk, the Presenters and Chair / Co-chair / Moderators / Rapporteurs are requested to adhere to the schedule.
- 6) The Poster Presentation will be carried out on all the 3 days during Tea Break, Lunch Break and on stipulated schedule. The presenters are requested to attend.
- 7) e-certificate of the presenters & delegates will be available in the website: [www.iswmaw.com](http://www.iswmaw.com) from 01/12/18 onwards.No hard copy will be given.
- 8) Papers will be selected for the "IconSWM – Springer Excellence Awards 2018" for best papers.

## **Publication from the selected Papers of 8<sup>th</sup> IconSWM 2018**

### **1. List of Books to be published by M/s Springer Nature by June 2019:**

- 1) Waste Management as Economic Industry towards Circular Economy
- 2) Solid Waste Policies and Strategies: Issues, Challenges and Case Studies
- 3) Bio-resource Utilization and Bioprocess
- 4) Emerging Technologies for Waste Valorization and Environmental Protection
- 5) Circular Economy and Fly Ash
- 6) Urban Mining and Sustainable Waste Management
- 7) Energy Recovery Processes from Wastes
- 8) Recent Trends in Waste Water Treatment and Water Resource Management

### **2. Special Issue of Journal, "Waste Management & Research".**

### **3. Special Issue of Journal, "International Journal of Energy Sector Management".**

**The Authors of selected papers are hereby requested to respond immediately for the submission, corrections or any other communication from the IconSWM or the Publisher to help in publishing the Books and the Journals on schedule.**

**8<sup>th</sup> IconSWM Diamond Sponsor:**



**Vent Condenser**



**Scrubbing System**



**Production Plant**



**Reverse Osmosis Plant**



**Recycled water in use**

**Boiler**



**Coal Ash**

**Bricks by using Ash**



**8<sup>th</sup> IconSWM Diamond Sponsor:**



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**Production Blocks & Tank Farm**



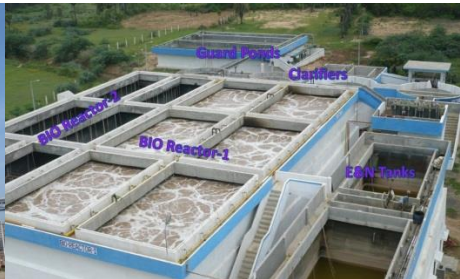
**Production Blocks DCS Room**



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## Glimpses of 7<sup>th</sup> IconSWM at Hyderabad in 2017



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Programme Schedule: 8th IconSWM 2018



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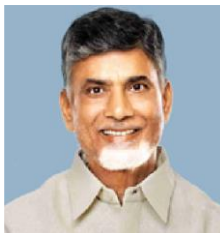


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## Programme Schedule - Summary

Time	Session Details/ Programme	Venue
<b>21/11/2018 (Wednesday)</b>		
10.00 am – 08.00 pm	<b>Pre-Registration</b> , Acharya Nagarjuna University	ANU
12.00 pm onwards	Exhibitors will decorate the exhibition stalls to be completed by 7.00 pm	Exhibition ground
5.00 pm – 7.30 pm	<b>Meeting:</b> Organizing Committee, Core Committee & International Scientific Committee of IconSWM.	Hall 2 at Auditorium
<b>22/11/2018 (Thursday)</b>		
08.30 am onwards	<b>Registration at ANU</b>	
10.15am – 11.45 am	<b>Inaugural Programme</b> The Hon'ble Speaker, Legislative Assembly of Andhra Pradesh has kindly agreed to inaugurate the 8 <sup>th</sup> IconSWM.	IconSWM Hall
11.45 am – 12.15 pm	<b>Group Photo:</b> Delegates are requested to stand at the location guided by volunteers for group photo.	Outside the Auditorium
12.15 pm – 12.45 pm	<b>Inauguration of Exhibition :</b> Dr. P. Narayana, Hon'ble Minister of MA&UD, Andhra Pradesh has kindly agreed to inaugurate the Exhibition.	Exhibition Ground
12.00 pm – 01.30 pm	Poster Presentation (The poster presenters are requested to arrange the poster display on 21 <sup>st</sup> and 22 <sup>nd</sup> November morning before 9.00 am).	Auditorium Complex
12.00 pm – 01.30 pm	<b>Lunch Break</b>	<b>Herbal Garden</b>
1.30 pm – 3.30 pm	<b>Plenary Session – 1: Opening Plenary Global Circular Economy &amp; 3R Moderators :</b> Mr. C. R. C. Mohanty, UNCRD/UN DESA, Japan Dr. C. L. Venkata Rao, Swachh Andhra Mission, Govt. of Andhra Pradesh, India Prof. P. Agamuthu, University of Malaya, Malaysia <b>Rapporteur :</b> Dr. H.N. Chanakya, CST, IISC Dr. Suneel Pandey, Director, TERI, Delhi <b>Speakers :</b> Waste Management in Andhra Pradesh. Mr. R. Karikal Valavan, IAS, Principal Secretary (MA&UD); Govt of AP, India  Waste Management and CE in Italy. Prof. Francesco DiMaria, University of Perugia, Italy	IconSWM Hall



Time	Session Details/ Programme	Venue
	<p>Waste Management and CE in India Prof. Sadhan K. Ghosh, Jadavpur University, ISWMAW, India</p> <p>P for food and P in Waste Streams Dr. Econ.Matsubae Kazuyo, Tohoku University, Japan</p> <p>Solid Waste Management in Small Island Developing States, specifically in Mauritius. Mr. Prakash Kowlessar, Director, SWM Division, Ministry of Env.,Mauritius</p> <p>Waste Management and Resource Circulation in Russian Fed. Mr. Vladimir Maryev, Govt of RF.</p> <p>Developing legislative provisions for the beneficiation of waste for implementation of the CE in South Africa Mr. Anben Pillay, Director: Waste Policy and Information Mngt, South Africa</p> <p>Waste Management and Marine Littering in Sri Lanka - Mr. S. M. Madawalagama, Director, National SWM, Sri Lanka.</p> <p>3Rs Policy and Strategy for Municipal Waste Management in Thailand Mr Chaiya Boonchit, PCD, Govt. of Thailand</p>	
<p>3.40 pm – 4.40 pm</p>	<p><b>Open House Panel:</b> Indian Stakeholders meet the Foreign Experts <b>Moderators :</b> Prof. Sadhan K. Ghosh, ISWMAW <b>Representatives of Govt. of AP, India:</b> Dr. C. L. Venkata Rao, Mr. B S S Prasad, IFS (Retd.)Chairmn, APPCB Mr. K. Kanna Babu, IAS <b>Rapporteur :</b> Dr. D. Sripriya, Dravidian University, AP Dr. P. Brakmaji Rao, ANU</p> <p><b>Experts from different countries, namely :</b> China, Germany, Hungary, Italy, Japan, Lebanon, Malaysia, Mauritius, Nigeria, Russian Federation, Serbia, South Africa, Sri Lanka, Thailand, Taiwan, Tuvalu, UK, UNIDO, UNEP, UNCRD, European Union</p>	<p>IconSWM Hall</p>

Time	Session Details/ Programme	Venue
	Delegation to India, Vietnam, etc.	
04. 40 pm - 04.55 pm	<b>Tea/ Coffee Break</b>	Auditorium complex
<b>Concurrent Technical Session</b>		
5.00 pm - 6.10 pm	<p><b>Technical Session -1, IconSWM Hall</b> Waste management as Economic Industry towards Circular Economy-1</p> <p><b>Technical Session -2, Hall - 2</b> Circular Economy and Fly Ash Management</p> <p><b>Technical Session -3, Hall - 3</b> Recent Trends in Waste Water Treatment and Water Resource Management</p> <p><b>Technical Session -4, Hall - 4</b> Waste Management as Economic Industry towards Circular Economy -2 Waste Minimisation &amp; Utilization</p> <p><b>Technical Session -5, Hall - 5</b> Emerging Technologies for Waste Valorization and Environmental Protection</p> <p><b>Technical Session -6, Hall - 6</b> Solid Waste Policies and Strategies: Issues, Challenges and Case Studies Policy</p>	IconSWM Hall,  Hall - 2,3,4,5,6
6.00 pm - 6.30 pm	Delegates to board the bus to reach reception dinner venue (Fortune Murali Hotel Banquet). Assembly Point: Auditorium complex gate.	Auditorium complex gate
6.30 pm – 9.00 pm	Welcome Reception hosted by the AP State Pollution Control Board and Port Management	Fortune Murali Hotel Banquet
8.45 pm – 9.30 pm	Return Transport to Hotels / ANU Guest House	
	<b>Exit</b>	

Time	Session Details/ Programme	Venue
<b>23/11/2018</b>		
08.00 am - onwards	Registration	
09.00 am – 10.00 am	<p><b>Meeting – 1 : AP Pollution Control Board with Foreign Delegates</b>  <b>Chair :</b>                      Mr. B. S. S. Prasad, Chairman, APSPCB  <b>Co-chair :</b>                      Mr. Rene Van Berkel, UNIDO representative                      Dr. Farkas Hilda, Counselor for science and technology, Embassy of Hungary</p> <p><b>Rapporteur :</b>                      Mr. Siba Prasad, JCEE, APSPCB</p> <p><b>Participants :</b>                      Officers of AP State Pollution Control Board, Delegates from Germany, Hungary, Italy, Japan, Malaysia, Mauritius, Nigeria, Russian Federation, Serbia, South Africa, Sri Lanka, Thailand, Taiwan, Tuvalu, UK and UNIDO.</p>	Conference hall, at the Dept of Environment, beside the Auditorum Complex
<b>Concurrent Technical Sessions</b>		
09.00 am – 10.10 am	<p><b>Technical Session -7, IconSWM Hall</b>                      Waste Management as Economic Industry towards Circular Economy-1                      Marine Waste &amp; Littering</p> <p><b>Technical Session -8, Hall 2</b>                      Circular Economy and Fly Ash</p> <p><b>Technical Session -9, Hall 3</b>                      Solid Waste Policies and Strategies: Issues, Challenges and Case Studies: Policy</p> <p><b>Technical Session-10, Hall 4</b>                      Waste Management as Economic Industry towards Circular Economy -1                      Waste Minimisation &amp; Utilization</p> <p><b>Technical Session -11, Hall 5</b>                      Emerging Technologies for Waste Valorization and Environmental Protection</p> <p><b>Technical Session -12, Hall 6</b>                      Recent Trends in Waste Water Treatment and Water Resource Management</p>	IconSWM Hall, Hall – 2,3,4,5,6

Time	Session Details/ Programme	Venue
10.20 am – 11.20 am	<p><b>Plenary Session – 2 : “Resource Circulation Programme in Global Perspective”</b></p> <p><b>Chairs :</b>            Prof. S. K. Ghosh, Chairman, IconSWM &amp;JU            Mr. B. S. S. Prasad, Chairman, APSPCB  <b>Co-Chairs :</b> Capt. Jacob, GM, Kakinada Sea Ports</p> <p><b>Rapoiteur :</b>            Dr. Madhusudana Rao, JCEE, APSPCB</p> <p><b>Panelists :</b>  <b>UNIDO :</b> “Role of Industries in Resource Efficiency and Circular Economy”            Mr. Rene Van Berkel, Z. Fadeeva, United Nations Industrial Development Organization.  <b>UNCRD :</b> “Circular Economy in the Asia and the Pacific” –            Mr C. R. C. Mohanty , Environmental Coordinator, UNCRD, Nagoya, Japan  <b>UNEP :</b> “UN Environmental Program”            Dr. Jitendra K. Sharma, Chemical and Waste, UN Environment  <b>Delegation of the European Union to India :</b> “Scope of Research support on Waste Management from EU in India”            Dr. Vivek Dham, Policy Advisor - Research &amp; Innovation</p>	IconSWM Hall
11.20 am – 11.40 am	<b>Tea/ Coffee Break</b>	
11.40 am – 01.10 pm	<p><b>Plenary Session - 3, Mail Hall,</b></p> <p><b>Chairs :</b>            Prof. M. Koteswar Rao, ANU            Prof. Gert Morscheck, Rostok University, Germany</p> <p><b>Rapoiteur :</b>            Dr. Asit Aich, Secretariat member, ISWMAW            Dr. Priyabrata Banerjee, CSIR-CMERI, WB</p> <p><b>Speakers :</b>            Waste Management in Hungary,            Dr. Farkas Hilda, Counsellor for science and technology, Embassy of Hungary</p> <p>Sustainable Management of Segregated non-, recyclable plastics &amp; other combustible wastes through co-processing in cement plants,            Mr. Ulhash Parikar, Ex. Dy. Head, Geo Cycle Ltd.</p> <p>AD of MSW–Current trends &amp; future Challenges,            Dr. H. N. Chanakya, IISc, India,</p>	IconSWM Hall

Time	Session Details/ Programme	Venue
	<p>Different Technologies for Waste Treatment and Resource Recovery, Dr. Naomasa Kageyama, Japan,</p> <p>Green Temples- Circular Economy in Waste Management Ms. Mukul Rastogi, VP-Social Investments,ITCLtd</p> <p>Energy Recovery using Sludge Dr. Suneel Pandey, Director, TERI, Delhi</p>	
<p>11.40 am – 01.10 pm</p>	<p><b>Meeting : Research Project meeting on “Global status of implementation of Circular Economy and 9<sup>th</sup> 3R Forum in Aisa and the Pacific”</b> <b>Participants</b> :Experts in the CE research project, and Mr Chiya Boonchit.</p>	<p>Green Room, Gr. Fl.</p>
<b>Concurrent Special and Technical Sessions</b>		
<p>11.40 am – 01.10 pm</p>	<p><b>Special Session -1</b>, :Hall – 2 Circular Economyand Fly Ash <b>Technical Session – 13</b>, Hall – 3 Waste Management as Economic Industry towards Circular Economy-1 - SDG <b>Technical Session – 14</b>, Hall – 4 SDG <b>Technical Session – 15</b>, Hall – 5 Bio-resource Utilization and Bio-processes <b>Technical Session – 16</b>, Hall – 6 Recent Trends in Waste Water Treatment and Water Resource Management</p>	<p>Hall – 2,3,4,5,6</p>
<p><b>01.15 pm – 02.30 pm</b></p>	<p><b>Lunch Break</b></p>	<p><b>Herbal Garden</b></p>
<p>02.30 pm – 04.00 pm</p>	<p><b>Plenary Session (PS – 5)</b> <b>Chairs :</b> Prof. A Rajendra Prasad, Vice Chancellor, ANU Prof. S. Ramkrishna Rao, VC, Krishna University, AP <b>Rapporteur:</b> Prof. SVS Satyanarayana, JNTUA Prof. T. Subbaiah, Guntur <b>Speakers:</b> Sustainable waste management of segregated plastics. Mr. Ulhas Parlikar, Ex Dy. Head, Geo-Cycle Ltd.  Waste Management Legal Framework : SWM, and Hazardous Waste and their linkages Dr J. S. Kamyotra, Ex- Member Secretary, CPCB,</p>	<p>IconSWM Hall</p>

Time	Session Details/ Programme	Venue
	<p>Prof. Michael K. Koech, Kenya, "Waste Management status and Future Goals in Kenya"</p> <p>Prof. G. Morscheck, Germany, "Status and Development of the Circular Economy in Germany" (M. Nelles, A. Nassour)</p> <p>Waste Management in Taiwan, Prof. Wein Wu, Fu Jen Catholic University, Taiwan</p> <p>Resource Recovery from Organic fraction of MSW using AD and Hydrothermal carbonisation, Dr. Brjesh Dubey, IIT, Kharagpur, India.</p>	
02.30 pm – 04.00 pm	<b>Concurrent Special and Technical Sessions:</b>	
	<p><b>Special Session -2 ( SS – 2 ), Hall 2</b> Urban Mining and Sustainable Waste Management (Biomedical Waste)</p> <p><b>Technical Session – 17, Hall 3</b> Urban Mining and Sustainable Waste Management (E-Waste)</p> <p><b>Technical Session – 18, Hall 4</b> Industry towards Circular Economy -1 Waste Management</p> <p><b>Technical Session – 19, Hall 5</b> Urban Mining and Sustainable Waste Management –II (Landfill &amp; Leachate)</p> <p><b>Technical Session – 20, Hall 6</b> Waste Management as Economic Industry towards Circular Economy -1 Waste Management</p>	
04.00 pm – 04.20 pm	<b>Tea/ Coffee Break</b>	
04.20 pm - 06.20 pm	<p><b>Industry Plenary Session (PS – 4) :Waste Management and Resource Circulation on Industry: Opportunities, issues and challenges</b></p> <p><b>Moderators :</b> Mr. Vivek Yadav, Member Secretary, APSPCB Mr. Rene Van Berkel, UNIDO Mr. Bala Kishore, Director of Boilers, AP</p> <p><b>Rapporteur :</b> Mr. T. Rajendra Reddy, JCEE, APPCB</p> <p><b>Panel Discussion:</b> Mr. D V S Narayana Raju, ED, Deccan Fine Chemicals (India) Pvt. Ltd. Mr. Madhusudan Rao Divi, Director, DivisLab.</p>	IconSWM Hall

Time	Session Details/ Programme	Venue
	Dr. Sunil Nigam, Director I/C, SWM, CPCB Chairman, Jharkhand State PCB Open House Discussion	
05.00 pm - 07.00 pm	<b>Poster Presentation</b>	<b>Auditorium Complex</b>
04.20 pm - 06.20 pm	<p><b>Municipal Best Practices : Open House Discussion</b>  <b>Moderators :</b>                      Dr. C.L. Venkata Rao, Evc., Swachh Andhra Mission                      Mr. Shiba Prasad, JCEE, APSPCB  <b>Rapporteur :</b>                      Dr. Sandhya Jaykumar, Medical Officer, BBMP,                      Ms. Sheetal Singh, Coordinator, CMAK, Karnataka  <b>Opening Speech :</b>                      Mr. K. Kanna Babu, IAS, DMA, AP                      Mr. Vivek Yadav, IAS, MS, APSPCB  <b>Open House Discussion :</b></p> <ul style="list-style-type: none"> <li>➤ Presentation/Video of Best Practices by the commissioners of Five ULBs in AP</li> <li>➤ Practitioners from different states share best practices;</li> <li>➤ Issues and Challenges in implementing of SWM Rules 2016</li> </ul>	Hall – 2,
	<b>Concurrent Special and Technical Sessions:</b>	
04.20 pm - 06.20 pm	<p><b>Special Session – 21</b>                      Urban Mining and Sustainable Waste Management (Biomedical Waste)  <b>Technical Session – 22</b>                      Urban Mining and Sustainable Waste Management (E Waste)  <b>Technical Session – 23</b>                      Emerging Technologies for Waste Valorization and Environmental Protection  <b>Technical Session – 24</b>                      Urban Mining and Sustainable Waste Management –III (Industrial Waste)  <b>Technical Session – 25</b>                      Recent Trends in Waste Water Treatment and Water Resource Management</p>	Hall 3,4,5,6,7
05.00 pm - 07.30 pm	<p>(The Participants in this meeting are requested to reach the venue of the meeting, by 4.30 pm)</p> <p><b>Meeting : Collaboration between Foreign Universities and Universities in AP, India and initiation of MOU</b>  <b>Moderator :</b>                      Prof. S. K. Ghosh, President, ISWMAW, Professor, JU                      Prof. S. Varadarajan, Secretary, APSCHE</p>	Banquet Hall in Fortune Murali Hotel

Time	Session Details/ Programme	Venue
	<p><b>Lead Speaker:</b> Prof. S. Vijaya Raju, Chairman, AP State Council of Higher Education, Govt of AP.</p> <p><b>Rapporteur :</b> Prof. V V Basaba Rao, Osmania University Mr. Rajesh, APSCHE</p> <p><b>Participants :</b> Professors of Foreign Universities participating 8<sup>th</sup> IconSWM, University Vice Chancellors, professors and administration in Andhra Pradesh, Representatives from UNIDO, UNEP, UNCRD &amp; Delegation of the EU to India Representative from Consulate of Hungary</p>	
	<b>Exit</b>	
<b>24/11/2018</b>		
08.00 am – to 12.00 pm	Registration	Auditorium
	<b>Concurrent Special and Technical Sessions:</b>	
09.00 am – 10.10 am	<p><b>Technical Session – 26, IconSWM Hall</b> Waste Management as Economic Industry towards Circular Economy-1 – Circular Economy</p> <p><b>Technical Session – 27, Hall 2</b> Waste Management as Economic Industry towards Circular Economy-1 Circular Economy</p> <p><b>Technical Session – 28, Hall 3</b> Urban Mining and Sustainable Waste Management (Plastic Waste)</p> <p><b>Technical Session – 29, Hall 4</b> Emerging Technologies for Waste Valorization and Environmental Protection</p> <p><b>Technical Session – 30, Hall 5</b> Solid Waste Policies and Strategies: Issues, Challenges and Case Studies (Swachh Bharat Mission)</p> <p><b>Technical Session – 31, Hall 6</b> Urban Mining and Sustainable Waste Management (Landfill)</p>	IconSWM Hall, Hall – 2,3,4,5,6
10.20 am – 11.20 am	<p><b>Plenary Session – 6</b> <b>Chair :</b> Prof. SVS Satyanarayana, JNTUA <b>Co-Chair:</b> Prof. S. Swamy, ANU <b>Rapporteur:</b> Prof. A.G. Rao, IICT-CSIR, Hyderabad Mr. Vinayakam, ED, SAC, AP</p> <p>Realtime Monitoring in Waste Management for</p>	



Time	Session Details/ Programme	Venue
	<p>effective governance, Mr. K. Kanna Babu, DMA, AP.</p> <p>Collaborative activities between India and Ms. Maqsooda Sarfi Shiotani, President, Ishikawa Indian Association; Japan,</p> <p>Marine Debris Crisis: Where do we go ? Prof. P. Agamuthu, University of Malaya, Malaysia</p>	
11.20 am – 11.40 am	<b>Tea/ Coffee Break</b>	
	<b>Concurrent Special and Technical Sessions:</b>	
11.40 am – 1.15 am	<p><b>Technical Session – 32</b> Energy Recovery Processes from Wastes -1 (Waste to Energy)</p> <p><b>Technical Session – 33</b> Solid Waste Policies and Strategies: Issues, Challenges and Case Studies (Community Participation)</p> <p><b>Technical Session – 34</b> Bio-resource Utilization and Bio-processes</p> <p><b>Technical Session – 35</b> Energy Recovery Processes from Wastes – 2</p> <p><b>Technical Session – 36</b> Waste Management as Economic Industry towards Circular Economy -1 (Waste Management)</p> <p><b>Technical Session – 37</b> Recent Trends in Waste Water Treatment and Water Resource Management</p>	IconSWM Hall, Hall – 2,3,4,5,6
01.15 pm – 02.30 pm	Lunch Break	Herbal Garden
03.00 pm – 05.30 pm	Valedictory Programme Distribution of Awards Invitation to 9 <sup>th</sup> IconSWM 2019	IconSWM Hall
05.30 pm – 06.15 pm	Hi Tea and networking	
	<b>Exit</b>	
<b>25.11.2018</b>		
09.00 am - 10.30 am	<b>Registration for Training Workshop (Free of Cost)</b>	Hall 2
10.30 am – 1.15 pm	<p><b>Training Workshop “Resource Efficient Processes for MSW, Hazardous Waste, Plastics &amp; e-waste”</b>, Hall 2 in Auditorium (Register soon at free of cost). <b>Possible Faculties :</b> Prof. Gert Morscheck, Germany; Dr. Econ.Matsubae Kazuyo, Japan; Prof. Francesco DiMaria, Italy; Prof. P. Agamuthu, Malaysia.</p>	
<b>Field Visit</b>	<b>Reporting at the ANU main gate and specified hotels (Fortune</b>	

Time	Session Details/ Programme	Venue
<b>1<sup>st</sup> group :</b> 9.00 am – 3.00 pm <b>2<sup>nd</sup> group :</b> 2.00 pm – 7.00 pm	<b>Murali) for Field Visit : (Please register soon at free of cost)</b> 1. Bio medical waste treatment plant at Mangalgiri 2. Bio-remediation site and C&D Waste Recycling Plant 3. Compost Plant at Vijayawada, and 4. Kanaka Durga Temple.	
	<b>Exit</b>	

### Some important Points :

- 9) The delegates may hire taxies through APPS from Airport, Railway Station, Bus Terminus. Hired Taxies are available in plenty in the city. The distance from Airport to ANU, Guntur is nearly 20 KM.
- 10) The presentation of the Technical Sessions is of 10 mins. Duration and in the Plenary 15 mins. Duration. The Presentation should be restricted within the stipulated time. All QA will be taken up at the end of the session by the Session Chair and the Co-chair.
- 11) The Presenters are requested to kindly send the PPT Presentation materials to: [cric9000@gmail.com](mailto:cric9000@gmail.com) by 20/11/2018. They are also requested to contact the respective members in the Hall Management for Technical Session in the particular Hall or the Technical Desk atleast 30 mins before the sessions start to check if the PPT has been uploaded in the Laptop.
- 12) The rapporteurs are requested to prepare one page note on the proceedings of the session and email it to: [iconswm.services@gmail.com](mailto:iconswm.services@gmail.com) once the session is completed or handover the softcopy / hard copy to the Technical Desk (Mr. Suresh Mondal-9836911950, Mr. Biswajit Debnath-9874384611). Kindly Note that the inputs of the rapporteurs are very important to prepare the chair summary that will be presented in the Valedictory Session. The Chair / Co-chair / Moderators / Rapporteurs are requested to kindly contact the Hall Management members / Technical Desk and requested to kindly report to respective Halls 15 mins. before the schedule.
- 13) The Concurrent Sessions will start as per schedule even if the time in the Plenary Sessions over shoots. The Hall Management, Technical Desk, the Presenters and Chair / Co-chair / Moderators / Rapporteurs are requested to adhere to the schedule.
- 14) The Poster Presentation will be carried out on all the 3 days during Tea Break, Lunch Break and on stipulated schedule. The presenters are requested to attend.
- 15) e-certificate of the presenters & delegates will be available in the website: [www.iswmaw.com](http://www.iswmaw.com) from 01/12/18 onwards.No hard copy will be given.
- 16) Papers will be selected for the "IconSWM – Springer Excellence Awards 2018" for best papers.

## Programme Schedule – Special Sessions and Technical Sessions

<b>22<sup>nd</sup> November, 2018</b> <b>5:15 PM to 6:20PM</b> <b>Concurrent Session</b>
<b>Technical Session -1</b>
<b>Waste Management as Economic Industry towards Circular Economy- 1</b>
<b>Circular Economy</b> Chair: Prof. S.V.S. Satyanarayan, JNTU Co-chair: Dr. K. Amman, ANU;
Swachh Bharat mission with focus on Swachh Energy: An Experience in a Silvarpatti Village of Dindigul District., Tamilnadu, India; Loganathan K, Sowndharya J, Vignesh S, Kirubakaran V; Tamil Nadu; India
Circular Economy Approach to Women Empowerment through Reusing Treated Rural Wastewater using Constructed Wetlands; Lekshmi B., Shyam R. Asolekar, Rahul S. Sutar, Shruti Sharma, Yogen J Parikh and Dilip R Ranade; Mumbai, India
Waste management in balikpapan city based on circular economy; Suryanto, Indonesia
Status and Development of the Circular Economy in Germany; Prof. Dr. mont. M. Nelles, Dr. G. Morscheck, A. Nassour; Germany
Developing legislative provisions for the beneficiation of waste as part of the implementation of the circular economy in South Africa; Anbendren Pillay; South Africa

Impacts of Municipal Solid Waste Heavy Metals on Soil Quality – A Case of Visakhapatnam; G. Siva Praveena and P. V. V. Prasada Rao; Andhra Pradesh, India
<b>Technical Session -2</b>
<b>Circular Economy and Fly Ash Management</b>
Chair: Mr. Vijaya Kumar, JCEE APPCB Co-chair: Dr. Amratavalli, ANU,
Exponential potential of fly ash in sustainable eco-system. Vimal Kumar, India
Holistic performance of fly ash for sustainable development. N. Kalidas, India
Treatment of pulp and paper mill effluent for color removal by use of fly ash. Divya Bisht, India
Fly ash as a source of silicon for mitigating biotic stress and improving yield and changes in biochemical constituents and silicon in rice under abiotic stress. Balasubramaniam P, India
Effect of fly ash on strength of concrete. A. Venkateswara Rao and K. Srinivasarao, India
Synthesis, quality assay and assessment of flyash based chemical insecticides for efficacy against pests of crops. Ayyasamy, R., P. Narayanasamy, India

<b>Technical Session -3</b>
<b>Recent Trends in Waste Water Treatment and Water Resource Management</b>
Chair: Prof. Francesco Di Maria, Italy Co-chair: Dr. B. Madhusudan, JCEE, APPCB,
Microbial community analysis of soil samples from Ganga River Bank receiving industrial effluents using sole carbon source MaliniBasu, Sayanti Chakraborty, KausikMondal, Pradip Barman and Pardita Dutta I, India, Kolkata
Application of synthesized Nano-cellulose material for removal of malachite green from waste water. Lopamudra Das, NiladriSaha, <u>Papita Das</u> , AvijitBhowal and Chiranjib Bhattacharya India, Kolkata
Preliminary investigation of the co-digestion of sewage sludge and animal by product in a digester of an existing wastewater treatment plant. Francesco Di Maria, Ahmad Salehiyou, Mohammad Sharifi, Hamid Ziloueic and MortazaAghbashlo; Iran
Status of sewage treatment in Bihar and needs for improvement; Prabhansu, Krishna Kant Dwivedi, Malay Kr Karmakar, Pradip Kr Chatterjee, Bihar, India
Ignored Fungal Communities in Industrial Wastewater: Diversity and Biotechnological Analysis. RamganesSelvarajan and AnofiOmotayo Tom Ashafa; South Africa

<b>Technical Session -4</b>
<b>Waste Management as Economic Industry towards Circular Economy - 2</b>
<b>Waste Minimisation &amp; Utilization</b> Chair: Dr. H. N. Chanakya,IISc,; Co-Chair: Dr. P. Brahmaji Rao,ANU
A Comprehensive study of Food Waste to Biogas Plant: Paths to improve the performance – A Case Study Dhinesh N, Metilda Annamary J, Iswarya K, Vadivel Murugan K. and Dr.V. Kirubakaran, India
Utilization of Rice Husk Ash for De-fluoridation of water; C.M.Vivek Vardhan and Dr. M.Srimurali; Andhar Pradesh;India
A Review on Biodegradable Packaging Materials in Extending the Shelf Life and Quality of Fresh Fruits and Vegetables Ramesh Malothua,Narendra.Ga, Sasikanth.Sb; Andhra Pradesh; India
Phytochemicals Quantification Of Annona Muricata Leaves Extract And It's Herbal Tea Formulations; Aruna V, Sowjanya G, Priyanka G, Dr. Ramesh Malothu; Andhra Pradesh; India
Characterization studies of alkaline phosphatase fromPlant seeds and the enzyme activity; Sri vidhya V, Dr. Ramesh Malothu; Andhra Pradesh; India
Wealth from Poultry Waste; K.P.Jhansi Rani and V.V.Lakshmi; Tamil Nadu; India

<b>Technical Session -5</b>
<p><b>Emerging Technologies for Waste Valorization and Environmental Protection</b>                      Chair: Prof. P. Agamuthu, Malaysia;                      Co-chair Mr T. Rajendra Reddy;                      JCEE, APPCB</p>
<p>Invited Talk:Life Cycle of Objects And Recycling In Archaeology                      Agnė Čivilytė, Lithuania</p>
<p>Co-composting of Cattle Dung and Pigeon Pea Stalk in Large Scale Pit System using Passive Aeration                      Sujit Modi, Sanjay Mahajani, Vijay Honkalaskar and Anurag Garg                      India</p>
<p>Conceptual approach of a Solar Thermal Steam Generator and its Design &amp; Optimization                      Rajarshi Chakraborty, Arnab Dey and Ratan Mandal; Kolkata, India</p>
<p>Assessment of phytoremediation potential of selected native plant species                       V. Subhashini, AVVS Swamy and K. Venkateswararao, AP, India</p>
<p>Time series analysis and seasonal variations of surface ozone and its precursors during a particular year at an urban location of Hyderabad                      Allu Sarat Kumar, P. Anand, S. Sharanya, P. Gayathri, K. Sujan Sekhar, A. Gangagni Rao, AP, India</p>
<p>Economic Aspects of Market Waste Valorization                      Sutripta Sarkar and Debaprasad Sarkar, WB, India</p>

<b>Technical Session – 6</b>
<p><b>Solid Waste Policies and Strategies: Issues, Challenges and Case Studies</b>  <b>Policy</b>                      Chair: Prof M. Srimurali; SVU                      Co-Chair: Prof A. Gangani Rao,IICT</p>
<p>Role of pollution control board in waste management                      A study on andhra pradesh state                      K. Rajeshkumar, D. Vishnupriya;                      Andhra Pradesh; India</p>
<p>Collapse of natural carcass disposal system – Kolkata rotten meat incidence : The insight study;                      Sucharita Bhattacharyya, AnweshBhowmick, Souvick De, ShilajitDey; Kolkata; India</p>
<p>Gender transformative planning for urban sanitation;                      ParamitaDattaDey, Delhi, India</p>
<p>Investigating sustainable organic waste treatment strategies in a developing country;                      HaniyehJalalipour, SafwatHemidat, SatyanarayanaNarra, GertMorscheck; Germany</p>
<p>Facilitating sustainable waste management strategies within the hospital-An Explorative study;                      Rama Desu, SatishSagi, Gowtham Ram;Andhra Pradesh; India</p>
<p>Closing Access Loop: Situating Post-Infrastructural Assurance Circumstances;                      Kopal Khare, Sunny Jose; Rajasthan; India</p>

<p><b>23<sup>rd</sup> November, 2018</b>  <b>9:00 AM to 10:10 AM</b>  <b>Concurrent Session</b></p>
<p><b>Technical Session - 7</b></p>
<p><b>Waste Management as Economic Industry towards Circular Economy- 1</b></p>
<p><b>Marine Waste &amp; Littering</b>                  Chair: Mr. K. Vinayakam, SAC AP                  Co-chair: Dr. Kashim, ANU;</p>
<p>Bio-degradation of Plastic Waste Using Marine Micro-organisms;                  Rwidhi Sarkhel and Papita Das;                  Kolkata; India</p>
<p>Disposed marine waste – A potential source for lipase enzyme production                  T. Damodharam, A. Rajanikant and J. Radha Krishna; Andhra Pradesh, India</p>
<p>Bio resource utilization and Bioprocess</p>
<p>Food waste, a good option for biodiesel production;                  Nibedita Sarkar, Byong-Hun Jeon, Pradip Chatterjee and Amit Ganguly;                  Korea, India</p>
<p>Isolation And Characterization Of Oceanic Bacteria: Role And Importance Of Coastal Region Of Andhra Pradesh;                  Ramesh Malothu;                  Andhra Pradesh; India</p>
<p>Effect of substrate to inoculum ratio on the degradation of various biomass substrates: Influence of binding. ;                  Ravi Kumar D, Chanakya H N, Swati Bhatia, Dasappa S;                  Karnataka; India</p>

<p><b>Technical Session - 8</b></p>
<p><b>Circular Economy and Fly Ash</b>                  Chair: Prof. K. Siddaiah, ANU;                  Co-chair: Mr. Rene Van Berkel, UNIDO</p>
<p>Flyash and Bagasse as Adsorbents for Removal of Zinc Ions from Wastewater.                  Dr. P. Akhila Swathanthra, Dr. V.V. Basava Rao, Pranay Kumar.Y, India</p>
<p>Potential of Silica Sources Including Fly Ash As Green Technology Inputs To Induce Resistance To Biotic And Abiotic Stresses In Crop Plants: Overview                  S. Sithanatham, M. Prabakar And P. Narayanasamy, India</p>
<p>Potential and futuristic of fly ash Nano-particle technology in pest control in agriculture and synthesis of chemical and herbal insecticides formulations                  Prof. P. Narayanasamy, India</p>
<p>Behaviour of Fly Ash Concrete At High Temperatures.                  A. Venkateswara Rao, K. Srinivasarao, India</p>
<p>Effective utilization of industrial waste (fly ash) for vermicompost production by employing Eisenia fetida.                  Selvakumar Muniraj, Logeswari Ravi, Harisankar Ganesh, Murugavel Sethuraman and Vasanthi Muthunayanan, India</p>
<p><b>Technical Session - 9</b></p>
<p><b>Solid Waste Policies and Strategies: Issues, Challenges and Case Studies Policy</b>                  Chair: Dr. AVVS Swamy, ANU;                  Co-chair: Mr. K. S. Karuna Moorthy, IPHA</p>
<p>Integrated Solid Waste Management in India - Implications from the Case study of Hunsur Municipality, Karnataka;</p>

Khusbu K. Birawat, K.P. Ravikumar, Biswajit Debnath, Sadhan Kumar Ghosh; Karnataka; India
Framework for Auditing of Municipal Solid Waste Management System in India; AsitAich and Sadhan Kr Ghosh;Kolkata; India
Ecoparks As A Model Of Sustainable Solid Waste Management; P.Lakshmi Narayana Prasad, J. Karthikeyan; Tamil Nadu; India
Design of capacity building strategy for municipal solid waste management (mswm) for andhrapradesh – a case study; Krishna Swaroop Konidena, Tanay Timblo, Andhra Pradesh; India
ITC's Community Based Solid Waste Management Strategy: A Case Study of Shivalik Nagar, Haridwar District, Uttarakhand Akhilesh Kumar Yadav * ,Subhendu Dash, Madhya Pradesh, India
<b>Technical Session -10</b>
<b>Waste Management as Economic Industry towards Circular Economy - 1</b>
<b>Waste Minimisation &amp; Utilization</b> Chair: Mr. D C S Varma, JCIF, AP; Co-chair: Mr. Srinivasa, Laurus Lab
Conversion of Waste Polythene Bags/wrappers Into Useful Products; Priskila Macwan; Kolkata; India
Recycling Of Scrap From Technical Institutes A Case Study Govt. Iti Berhampur Dr. R.K.Panigrahy;ODISHA, India
Recycling waste absorbent hygiene products and proper incineration for sustainable development; Soutrik Bose, Raju Singh, Shubham Ranjan, Satakshi Ghoshal and Saptarshi Baishya; West Bengal; India

The utilization of sericulture waste for the improvement of socio-economic welfare in India; D. Bharathi;Andhara Pradesh; India
Sewage Sludge Disposal in Germany - Status and Need for Changes; Gert Morscheck, Vicky Shettigondahalli Ekanthalu, Satyanarayana Narra and Michael Nelles;Germany
Entrepreneurship development in waste management; Mr.T. K. Ghtak, ISWMAW, India
<b>Technical Session -11</b>
<b>Emerging Technologies for Waste Valorization and Environmental Protection</b> Chair:Mr. Rao Divis, Divis Laboratories Pvt. Ltd Co-chair : Dr. T. Subbaiah, KL University;
Invited Talk: CO <sub>2</sub> Conversion Using Novel Dendritic Fibrous Nano Silica (DFNS) Based Heterogeneous Nano-catalysts Shantanu Lanke, Paris, France
IoT Based Waste Management System Through Cloud Computing and WSN M. Humera Khanam, V. Yamini, SucharithaSamia Anjum, Y.C. Thejaswini, AP, India
Polymeric-Ceramic Nanomaterials – A new horizon for Environmental Engineering Shubhanwita Saha, Biswajit Debnath, WB, India
Application of Data based Models in Waste Treatment Process Modelling Naga Chaitanya Kavuri, AP, India
Assessment of the application of Nano-Technology in Wastewater Remediation

Debargha Chakravorty, SusmitaKar, Sadhan K. Ghosh and ShwetaMitra, WB, India
<b>Technical Session - 12</b>
<b>Recent Trends in Waste Water Treatment and Water Resource Management</b> Chair: Prof V.V. Basava Rao; OU, India; Co-chair:Mr. Anben Pillay, South Africa
Effluent Water Treatment: a potential way out towards conservation of fresh water in India SouravBej, AmitaMondal and Priyabrata Banerjee, India
Development of an Effective and Efficient Integrated Charcoal Filter Constructed Wetland System for wastewater treatment AnuruddaKarunaratna, NadeeshaVidanage and YushaniAlahakoon, Sri Lanka
A consolidated stratagem towards defenestration of coke oven wastewater using various advanced techniques - An analogous study. Uttarini Pathak, Dalia DasguptaMandal, Suresh K. Jewrajka, Papita Das, Tarkeshwar Kumar and TamalMandal, India
Efficiency of waste water management of a Hospital – An experience Santhosh S J, Gowtham Ram and RamamohanDesu India
Studies on Lead removal from Simulated Waste Water in Packed Bed Bioreactor Using Attached Growth Technique Moumita Bose, Siddhartha Datta and Pinaki Bhattacharya, India

<b>23<sup>rd</sup> November, 2018</b> <b>11:40 am - 01:10 pm</b>
<b>Special Session - 1</b>
<b>Special Session: Circular Economy and Fly Ash</b> <b>Chairs:</b> Mr.BSS Prasad, Chairman, APSPCB Dr. Vimal Kumar,C-Farm, Delhi <b>Co-Chair:</b> Mr. Uma Maheswar Rao, Director of Boilers, Govt of AP <b>Rapiteur:</b> Mr. Krishnamoorthy, APSPCB
<b>Lead Speech:</b> Initiatives and experiences of APGENCO for gainful utilization of fly ash. Dr. Vimal Kumar, India
Bulk Fly Ash Utilization - R&D Initiatives at NTPC LTD Pranay, Piyush Srivastava,Rajiv Satyakam, N.K. Soni, India
Scope of Fly Ash Application As A Replacement For Chemical Pesticides For Pest Control In Certain Crop Pockets Of Neyveli And Virudhachalam Regions In Tamil Nadu Kathirvelu, C., Hariprasada, Y., P. Narayanasamy, India
High Volume Fly Ash Concretes, and Their Durability, and Applications in Different Types of Constructions B Kameswara Rao,Vimal Kumar, India
Pesticidal Activity And Future Scenario Of Flyash Dust And Flyash Based Herbal Pesticides In Agriculture, Household, Poultry And Grains In Storage Hariprasada, Y., Kathirvelu, C., P. Narayanasamy, India
Handling and Utilization of Fly ash from thermal power plants SeemaNihalani, Yogendra Mishra, India



<b>Technical Session -13</b>
<b>Waste Management as Economic Industry towards Circular Economy- 1</b> <b>SDG</b> Chair: Prof Ramakrishna Sen, IIT Kgp; Co-chair:Dr. D. Sripriya, Dravidian University
A Note on Introduction to Cleaner Production (CP)- Concepts &Practice; N.Venkata Raju, T.C. Venkateswarulu & R. Bharath Kumar; India
Ultimate use of waste; Hariprasad D R; Bangalore, India
Innovative Approach towards Capacity Building of Urban Local Bodies; Shyamala Mani, Paramita Datta Dey, Poulomy Banerjee and Umra Anees; Delhi, India
A Business Model for Enterprise Resource Planning (ERP) by establishing a Sustainable Supply Chain Management; Ipsita Saha, Sadhan Ghosh and Amit Kundu; Kolkata, India
Theme: Waste Management as Economic Industry towards circular Economy. Technical paper on Clean Development Mechanism and Green Economy; M.Touseef Ahamad, 2M. Deepthi; Andhra Pradesh; India
Development of Smart Cities and Sustainable Cities framework based on ISO indicators and SWOT analysis: an Indian Scenario Ankita Das, Abhyuday Mallick, Nipu Modak; Kolkata; India.

Valorisation of water hyacinth through anaerobic digestion: Proportional analysis of end products to ascertain the techno-economic viability Sarat Kumar Allu, Vijayalakshmi Arelli, Sameena Begum, Sudharshan Juntupally, T.A.S.Jayanth, A. Gangagni Rao India
<b>Technical Session -14</b>
<b>Bio-resource Utilization and Bio-processes</b> Chair: Prof. Michael K. Koech, Kenya, Co-chair:Prof. D. M. Mamatha, SPMU
Sustainable Production and Utilization of Bio Gas in a community Biogas Plant – a Case study of Bruhat Bengaluru Mahanagarapalike, Bengaluru Sumangala Patil, Anushalnamdar, Dr. Jyothilakshmi R and Dr. Sandhya Jayakumar India
Anerobic Digestion Of Ocimum Sanctum (Holy Basil): Effect Of Inoculum And Substrate Concentration Dr Sumanth Kumar Matha1, Dr K. Swapnavahini and Dr U. Kavya Jyothsna, India
Recent advancements on the biogas purification technologies to obtain high grade methane Aparna Reddy, Sameena Begum, Sudharshan Juntupally, Vijayalakshmi Arelli, A. Gangagni Rao, India
Opportunities For Resource Recovery After Hydrothermal Pretreatment Of Biodegradable Municipal Solid Waste: A Mini-Review Divya Gupta, Sanjay Mahajani and Anurag Garg Mumbai, India

<p>Bio sorption of Cr (VI) from Aqueous Solutions by Pericarp of Pongamiapinnata V. V. Prasada Rao R. V. Ramana Murthy and Ch. Durga Prasad, India</p>
<p>A comparative study of the fuel characteristics between algal biodiesel and petro-diesel R. Karmakar, A. Rajorl, K. Kundu, N. Kumar, India</p>
<p>Studies on Production of Biodiesel from Waste Cooking Oil using Solid Waste as Catalyst Rajam Bukya and V.V. Basava Rao, India</p>
<p><b>Technical Session - 15</b></p>
<p><b>Recent Trends in Waste Water Treatment and Water Resource Management</b> Chair: Mr. Ulhas Parlikar, India Co-chair: Dr. T. Chandrasekhar, YVU,</p>
<p>Reuse of Washing Machine Effluent Using Constructed Wetland: Circular Economy of Sanitation Shruti Sharma, Lekshmi B, Rahul S.Sutar, Yogen J Parikh, Dilip R Ranade and Shyam R. Asolekar, India</p>
<p>Novel techniques of synthesis of nano-cellulose from sugarcane bagasse and its applications in dye removal ShubhalakshmiSengupta, Megha Srivastava, Uttariya Roy, Papita Das, Siddhartha Datta and AniruddhaMukhopadhyay India</p>
<p>An Analysis of Grey Water Recycling Alternatives using AHP for Indian Scenario Biswajit Debnath, Aryama Raychaudhuri, Sadhan Kumar Ghosh; Kolkata, India</p>

<p>Sustainable growth of Litopenaeusvannamei through waste water recycling Kola Kavitha and P.V.Krishna, India</p>
<p>Removal of Methylene Blue Dye By Using Lemon Leaf Powder As A Adsorbent B Sarath Babu and G Yamini, Tirupati, India</p>
<p>Hydrothermal carbonization - A sustainable approach to deal with the challenges in sewage sludge management Vicky Shettigondahalli Ekanthalu, Gert Morscheck, Satyanarayana Narra and Michael Nelles, Germany</p>
<p>Development of a Low-Cost Column Type Filter Based on Agricultural Waste for Removal of Fluoride from Water Vivek Vardhan C M, Srimurali M, Tirupati, India</p>
<p><b>Technical Session 16</b></p>
<p><b>Waste Management</b> Chair: Dr. H. N. Chanakya, IISc Co-chair: Prof. P. Chandramathi Shankar, YVU,</p>
<p>Anaerobic Digestion: A key to Solid Waste Management Bhagat, M. S. * , Jamgade P. B., Rathod R. B., Tarale, P. G.; Maharashtra; India</p>
<p>Green Temples- Circular Economy in Waste Management Mukul Rastogi, Kolkata, India</p>
<p>Faecal Sludge Treatment and Circular Economy: A Case Study Analysis R S Arun Kumar * , Sumita Singhal; Karnataka, India</p>
<p>Recycling Industrial Waste for Production of Bioethanol; S. Das * , S. Sengupta, P. Das, S. Datta, Kolkata; India</p>

<p>Passive High Rate Wastewater Treatment Using Upwelling Anaerobic Lagoons as an Alternative to Conventional Systems Seema Sukhani * , Hoysall Chanakya; Karnataka; India</p>
<p><b>02:30 pm - 4:00 pm</b></p>
<p><b>Technical Session – 17</b></p>
<p><b>Urban Mining and Sustainable Waste Management</b></p>
<p><b>(E-Waste)</b> <b>Chair:</b> Prof. KVSG Muralikrishna, JNTUK <b>Co-Chair :</b> Prof. G. Bala Subramaniam, ASCI, Hyd</p>
<p>Willingness of students and academicians to participate in E-waste Management Programmes - A case study of Bangalore Khushbu K. Birawat, Biswajit Debnath, Shushmitha L Gowda, Sadhan Kumar Ghosh, India</p>
<p>Evaluating E-waste Management in Developing Countries Abhishek Kumar Awasthi, Jinhui Li, India</p>
<p>Extraction of selected metals from high-grade waste printed circuit board using diethylenetriaminepenta-acetic acid AuchityaVerma, Amber Trivedi and SubrataHait, India</p>
<p>Optimisation Study for The Extraction of Metals From WPCB Using Pyrometallurgy Balaji R and Senophiyah Mary J, India</p>
<p>Recycling of WEEE Polymers: Issues, Challenges and Opportunities Biswajit Debnath, Ranjana Chowdhury and Sadhan Kumar Ghosh, India</p>
<p>Youth Engagement For E-Waste Management By Urban Local</p>

<p>Bodies In India Shetty Sai Dinesh, India</p>
<p><b>Special Session – 2</b> <b>02:30 pm - 4:20 pm</b></p>
<p><b>Urban Mining and Sustainable Waste Management (Biomedical Waste)</b> <b>Chair:</b> Dr. S. C. M. Bose, IMA, AP <b>Co-Chair :</b> Mr. Vladimir Maryev, Russian Federation</p>
<p>Sustainable Bio Medical Waste Management— Case Study; Vandana, V Venkateswara Rao, Sadhan Kumar Ghosh; Vijayawada ; Kolkata India.</p>
<p>Awareness on the Bio-medical waste and its segregation methods K. S. Shanthy Sree, A. Suvarna Latha, P. Lakshmi Padmavathi, D. Bharathi, India</p>
<p>Development of Biomedical Waste Treatment Scheme Bandi Prasadu, MedaKalyan Kumar and S Y Bodkhe, India</p>
<p>Bio Medical Waste Management in AP and in USA P. S. Prasad, India</p>
<p>Status of Biomedical Waste Management at Small and Medium size health care facilities in Thane - A case Study. L. Ghanshamnami, L. Khelshikar, V. Angadri, Maharashtra, India</p>
<p>A study on biomedical waste management in Chittoor district Hanumaiah. N, Lakshminarayana Prasad. P, Karthikeyan. J., India</p>
<p>Knowledge and Practice of Biomedical waste management and awareness of 3 'R 'concept among staff nurses in the hospital - A cross sectional Study Dr. Soujanya Kumar Bonam, Dr. Sameer Md, Dr Vishnu Murthy S B and Dr. Gscnv Prasad, India</p>

Issues and challenges in Implementing Biomedical waste management rules 2016 in India Sree karuna Murthy Kolli, IPHA, Andhra Pradesh, India
Experience in Effective management of non-biomedical waste in a government autonomous health care university of Andhra Pradesh, India: challenges and success Dr D S Sujith Kumar, Dr K Nagaraj, Dr Anju D Ade, Dr D Ravi Sankar, India
<b>Technical Session - 18</b>
<b>Waste Management as Economic Industry towards Circular Economy - 1</b> <b>Waste Management</b> <b>Chair:</b> Prof. P. V. V. Prasada <b>Co-Chair:</b> Dr. Farkas Hilda, Hungary
Study of Vehicle Tracking System in Primary Municipal Solid Waste Management – Ahmedabad; Rahul Patel, Gayatri Doctor and Paresh Vyas;Gujrat, India
Food Waste And Human Waste As Fuel Modelling For Distributed Generation And Manure To Indian Remote Villages By Thermo Electric Effect And lot Control; D Babu Rajendra Prasad;Karnataka, India
Agricultural Waste Bio Composite For Stealth Applications; Sakti Prasad Mishra, Ganeswar Nath and Punyatoya Mishra;India
A Review : Municipal Solid Waste Management in India; Komal Duhan, Rachna Gulati and Mukhan Wati;Haryana; India
Drivers and Barriers to Waste Segregation; Dr. Mercy Samuel and Alokita

Sharma; Gujrat, India
Management & Disposal of Sanitary Solid Waste: An Obscured Menace; Sri Sasi Jyothsna Tadinada, Alekhya Rss, Saikat Dutta, Dr Neela Priya D.V.N.L and Dr. Chakradhar Bandari; Telangana; India
Waste recycling in a developing context: Economic implications of an EU-separate collection scheme; Amani Maalouf, Omid Norouzi, Francesco Di Maria and Mutasem El-Fadel; Lebanon
<b>Technical Session - 19</b>
<b>Urban Mining and Sustainable Waste Management -II</b> <b>(Landfill &amp; Leachate)</b> <b>Chair:</b> Prof. Suvarnalatha Devi <b>Co-Chair:</b> Dr. Vimal Kumar, India
Remediation of bis(2-ethylhexyl) phthalate and Phenol, 4,4'-(1-methylethylidene)bis- in landfill leachate using green coagulant. ; AgamuthuPariatamby, Aziz Ahmed, Auwal Hassan and FauziahShahul Hamid; Malaysia
Effective Treatment for COD Removal of Landfill Leachate by Electro Coagulation Vikrant Vairagade, Dr Prasant Dhorabe, Bharti, Gautam and Vikash Agrawal, Maharashtra, India
Estimation of Greenhouse Gas Emissions from Matuail landfill Site (Dhaka Bangladesh) Md. Maruful Hoque and Tauhid-Ur Rahman, Bangladesh
Assessment of Greenhouse Gases And Perception of Communities on Emissions From The Largest Dumpsite In Africa Michael A. Above, Olasunkanmi, M.

Ojowuro; Chinenye, L. Okafor, South Africa
Investigations on fine fraction of agedmunicipal solid waste recovered throughlandfill mining: Case study of threedumpsites from India Mohit Somani, Manoj Datta, GV Ramana and TR Sreekrishnan, UP, India
Capping Vs Bio-Remediation Of Unlined Open Dumps In India Almitra H Patel, India
Stabilization of contaminated soil in a landfill site with ground granulated blast furnace slag Ramiz Raja, Supriya Pal, WB,India
<b>Technical Session - 20</b>
<b>Waste Management as Economic Industry towards Circular Economy - 1</b>
<b>Waste Management</b> <b>Chair:</b> Mr T. K. Ghatak, ISWMAW <b>Co-Chair:</b> Dr. S Roy, UK
Review: Potential of earthworm for solid waste management; Komal Duhan, Rachna Gulati and Mukhan Wati;Haryana, India
System Change in handling Organic Solid Waste Management for Urban Areas; Shiva Kumar H.M.;Karnataka; India
A Novel Diy Machine Design To Obtain Secondary Raw Materials From Absorbent Hygiene Waste; Kunal Gajanan Nandanwar, Divya Rathore and Rajiv Gupta; Rajasthan, India
Sustainable Waste Transportation in Kolkata Using DBMS and Image Sensing; Rahul Baidya, Ipsita Saha, Tapabrata Bhattacharya and Sadhan Kumar Ghosh;Kolkata, India
A study on solid waste and its

management in lakshmanaraopuram, dimmala centre, machilipatnam, Krishna district, andhra Pradesh Dr. J. Naveena Lavanya Latha and Students;Telengana, India
Yield Improvement Of Biodiesel From Chlorella Vulgaris By Media Optimisation And Transesterification G, Priyanka, G, Sowjanya, Aruna V, Dr. Ramesh Malothu. India
Effective Recycling of Flower Waste as Organic Manure Swapna P and V.V.Lakshmi, India
<b>4:20-6:20</b>
<b>Technical Session - 21</b>
<b>Urban Mining and Sustainable Waste Management (Biomedical Waste)</b> <b>Chair:</b> Prof. Amit Ghosh, JU <b>Co-Chair:</b> Mr. Osuke Taguchi, Japan
Design and Mathematical Modelling of an Anaerobic Biogas digester for treating wastewater from Edible Oil and Food Industries; Shweta Mitra, Rajarshee Ray, Sadhan K. Ghosh 1, Tirthankar Mukherjee; Kolkata; India
Comparative study of on-site sorting in China and Europe Zhikun Chen 1, Jianli Hao 1,*, Francesco DiMaria China
Performance Analysis of Distillery Spent-wash Using EGSB Reactor with Addition of Iron and Manganese G.M.Hiremath, Veena.S.Soraganvi * Karnataka; India
Chemical Characterization and Environmental Implications of Recycled Sewage Sludge in the Proximity Soil of Treatment Plant P Balaganesh 1,*, M Vasudevan 1, SM Suneethkumar 1, N Natarajan 2

Participation for whom? A study of Anudan Scheme for Solid Waste Management in Surat; Anurima Mukherjee Basu and Kanishka Khanna; Gujrat; India
<b>Bio-resource Utilization and Bio-processes</b>
<b>Chair:</b> Dr. Econ.Matsubae Kazuyo, TU, Japan <b>Co-Chair:</b> Dr Sutripta Sarkar, India
Biogas production from fat, oil, grease and effect of pre-treatment Sreasha Malayil, Hoysall N Chanakya India
Predicting biomethanation pattern from feedstock composition for biomass residues Ravikumar D, Chanakya HN* and Dasappa S, India
Design Of A Decentralised Biogas Reactor Riazul Hoque, Sagnik Maity and Rohan Lal Kshetry, India
<b>Technical Session - 22</b>
<b>Urban Mining and Sustainable Waste Management</b>
<b>(E-Waste)</b> <b>Chair:</b> Dr. Econ.Matsubae Kazuyo, TU, Japan <b>Co-Chair:</b> Dr Sutripta Sarkar, India
A Circular Economy Based Framework for Urban Mining of E-Waste Biswajit Debnath, Ranjana Chowdhury, Sadhan Kumar Ghosh, India
Security Threats in the Supply Chain of Waste Mobile Phone Recycling Biswajit Debnath, Jaafar M. Alghazo, Ghazanfar Latif, Ankita Das, Sadhan Kumar Ghosh, India
Recent trends in Valorisation of non-metallic ingredients of Waste Printed Circuit Board: A Review Debnil Bose, Sourav Barman and Rajat Chakraborty, India

Dynamic and thermal analysis of electrical insulator waste reinforced thermoset polymer composite Sabarinathan Palaniyapan, Annamalai V.E. and Rajkumar K, India
Youth Engagement for E-Waste Management by Urban Local Bodies in India Shetty Sai Dinesh; Kerala, India
<b>(Plastic Waste)</b>
A Study on Pyrolysis of Plastic wastes for Product Recovery and Analysis Ankita Mukherjee, Dr. Biswajit Ruj, Dr. Parthapratim Gupta and Dr. Anup Kumar Sadhukhan, India
Improvement In Engineering Behaviour Of Expansive Soil Reinforced With Randomly Distributed Waste Plastic Strips Rachita Panda and Sudhira Rath, India
A study on Biodegradation of Plastic by Microorganisms Osama Asanousi Lamma and Amna Ali Alhadad, India
Modelling of Post-Consumer Plastic Flow in Municipal Solid Waste Stream: A Case Study three major cities in Sri Lanka Anurudda Karunarathna, Yushani Alahakoon and Nuwan Kumara, India
Plastic Waste Management Rule 2016 Implementation in India: Current status, Issues, and challenges. Anaya Ghosh, Biswajit Debnath, Neelanjan Dutta, Anirban Gupta, Sadhan Kumar Ghosh; Kolkata; India

<b>Technical Session - 23</b>
<b>Emerging Technologies for Waste Valorization and Environmental Protection</b> <b>Chair:</b> Mr Chaiya Boonchit, Thailand <b>Co-Chair:</b> Dr. M. Chandrasekhar, NITW
Production and Application of chitosanases in Valorization of Crustacean Waste to Wealth Jeevana Lakshmi P , Hepsiba Y and Ch.MkumariChitturi, AP, India
Capture of CO <sub>2</sub> from Automobile exhaust by using physical adsorption Technique Mohankumar S, Dhinesh B, Muhammad Usman Kaisan and Mohamed Shameer P, Nigeria
Green Synthesis of Silver Nanoparticles for Wastewater Purification ShwetaMitra and Tirthankar Mukherjee, WB, India
Air Pollution from Cement Manufacturing Plant: Its Prevention and Control Sanjib Jana, Jyoti Prakash Sarkar and Rabindra Nath Jana, WB, India
A study on selection of the biofilm for the Hybrid Up-flow Anaerobic Sludge Blanket (HUASB) Reactor using the Computational Fluid Dynamics(CFD) analysis R. Loganath, Senophiyah Mary, Teema Thomas, Karnataka, India
Green and Economical Synthesis of Graphene-Silver Nanocomposite Exhibiting Excellent Photocatalytic Efficiency Basavaiah Chandu and HariBabu Bollikolla, AP, India
<b>Urban Mining and Sustainable Waste Management - II</b> <b>(C&amp;D Waste)</b> <b>Chair:</b> Mr Chaiya Boonchit, Thailand <b>Co-Chair:</b> Dr. Sushant Wath;

Maharashtra; India
Utilization of Construction & Demolition (C&D) Waste and Industrial Inorganic Wastes in Cement Manufacturing Parmanand Ojha, Pinky Pandey, Kåre Helge Karstensen, Palash Kumar Saha, Norway
A review of studies on environmental performance analysis of construction and demolition waste management using life cycle assessment Kishore C Kumar, VG Ram, Satyanarayana N Kalidindi, AP, India
Utilization of Bentonite in Concrete: A Review M. Achyutha Kumar Reddy & V. Ranga Rao, AP, India
<b>Technical Session - 24</b>
<b>Urban Mining and Sustainable Waste Management -III</b> <b>(Industrial Waste)</b> <b>Chair:</b> Dr. Mr. Wojowuro, Nigeria; <b>Co-Chair:</b> Prof. D.Bharathi; SPMV
Slate mine waste water, a best substitute for cementation S. Altaf Hussain, S.M.Subhani, S.V. Satyanarayana, AP, India
Application of industrial waste for improvement in alkaline soils E. Sanjeeva Rayudu, M. Srimurali, K. Venkaih, AP, India
"WEALTH FROM WASTE" – Industrial Tannase Enzyme Production from Agro-Industrial waste Cashew Testa Tannins as a Substrate for Environmental depollution. N.Lokeswari and P.Sujatha, AP, India
Paper Mill Lime Sludge Valorisation as Partial Substitution of Cement In Mortar Prabhat Vashistha and Vivek Kumar, Roorkee, India
Investigating toxic metal levels in

<p>edible fishes from the Durban basin impacted by industrial and domestic discharges: Implications for public health and food security Sanjeev Debipersadh, Timothy Sibanda, Ramganes Selvarajan and Richard Naidoo, South Africa</p>
<p>On the use of grains recovered from spent vitrified wheels in coated abrasive discs P. Sabarinathan, V.E. Annamalai, Chennai, India</p>
<p>Biodegradation of azo-dyes by employing bacterial strains isolated from textile effluents P Udaya Sri, Jikasmitha Dalei, AP, India</p>
<p>Temporal changes of solid waste at Limestone quarries in and around Yerraguntla, Y.S.R District, A.P using Google earth images YenuguSudharshan Reddy, Badri Survana, Mannala Prasad, Vangala Sunitha and Machireddy Ramakrishna Reddy, AP, India</p>
<p>Waste coal Utilization in India: a review Krishna Kant Dwivedi, Prabhansu, P.K. Chatterjee, A.K. Pramanick and M.K. Karmakar, West Bengal, India</p>
<p><b>Technical Session – 25</b></p>
<p><b>Recent Trends in Waste Water Treatment and Water Resource Management</b></p>
<p><b>Chair:</b> Mr. S. M. MadawalagamaSrilanka</p>
<p><b>Co-Chair :</b> Prof. V. Kalarani, SPMU</p>
<p>Advanced Technologies for Wastewater Purification: A Review DebarghaChakravorty, SusmitaKar, Sadhan K. Ghosh and Tirthankar Mukherjee, India</p>
<p>Low cost biodegradable adsorbent material for the removal of from aqueous solution P. Mercy Jasper S.</p>

<p>JameerAhammad and S. Sumithra, India</p>
<p>Bioremediation of Textile Azo dyes by Marine Streptomyces Bhoodevi chakravarthi, Vani Mathakala, Uma Maheswari Devi Palempalli, India</p>
<p>Use of Sewage to Restore Manmade Waterbodies – Nutrient and Energy Flow Regulation Approaches to Enabling Sustainability Seema Sukhani and Chanakya Bengaluru, India</p>
<p>Two stage passive high throughput sustainable sewage treatment process: lab study and future scope SeemaSukhani and HoysallChanakya, India</p>
<p>Design and Characterization of cold plasma ozonator for waste water treatment Harsha Rao, Lakshminarayana Rao, Haritha Haridas, Manju DK, S. Swetha, HN Chanakya, India</p>
<p>Bio-Decolourization of Azo Reactive Red Rb Dye From Textile Effluent By Bacillus Species T.Madhuri , Dr.P.Suvarnalatha Devi ,T. Swetatejaswi, India</p>
<p>Adsorption of Iodide in the Water by Natural Products and Waste Biomass for the Application of Radioactive Iodide Remediation Jakkapon Phanthuwongpakdee, Sandhya Babel and Tatsuo Kaneko, Thailand</p>
<p>Utilization of Vegetable Waste as Activated Carbon for the Adsorptive Removal of 4-NP; Y.D.Chintanwar, P. T. Dhorabe, A. R.Tenpe, V.S.Vairagade; Maharashtra; India</p>
<p>Applicability of Fruit Peel</p>



Synthesized Adsorbent for Dye Removal from Aqueous Solution  
Akshaya Kumar Verma, KasaVara Prasad, Vicky Kumar, Ipsita Nayak, Richa Paul and LopamudraNayak, Odisha, India

**24<sup>th</sup> November, 2018**

**9:00 PM to 10:10PM**

**Concurrent Session**

**Technical Session - 26**

**Waste Management as Economic Industry towards Circular Economy 1**

**Circular Economy**

**Chair:** Dr. Naomasa Kageyama

**Co-Chair:** Prof. SVS Satyanarayana, JNTUA

Physical composition and chemical characterization of Solid Waste: A case study of Municipal dump yard of Silchar town, Cachar, Assam; Mausam Kumar Paul and MithraDey; Assam, India

Three 'R': An effective sustainable waste management approach; SaiKalyani Yogi, B. Deepa Reddy and Dr. Ch.M. KumariChitturi; Tamil Naidu; India

Procurement of Low Carbon Municipal Solid Waste Infrastructure In India Through Public-P Rivate Partnerships; TharunDolla and Boeing Laishram; Assam, India

Opportunities for Resource Recovery after Hydrothermal Pretreatment of Biodegradable Municipal Solid Waste: A Mini-Review; Divya Gupta, Sanjay Mahajani and AnuragGarg; Mumbai; India

Three 'R': An effective sustainable waste management approach; SaiKalyani Yogi, B. Deepa Reddy

and Dr. Ch.M. KumariChitturi; Tamil Naidu; India

Performance of Municipal solid waste management projects in india – exploratory study; TharunDolla and Boeing Laishram; Assam; India

**Technical Session - 27**

**Urban Mining and Sustainable Waste Management**

**Plastic Waste**

**Chair:** Dr. Jitendra K. Sharma, UN

**Co-Chair:** Dr Asit Aich, India

Current Scenario of Plastic Waste Management in India: Way Forward in Turning Vision to Reality  
NeelaPriyaDevulapalli, Mayank Gupta, SasiJyothsnaTadinada and ChakradharBandari, India

Recycling of four different domestic plastic wastes into single high-end product using Poly (Ethylene-co-Methacrylic Acid) Copolymer as compatibilizer  
DivyaRajasekaran and Pradip. K Maji, India

Recycling of Plastic Waste-A Review  
Roy Chowdhury S, Ghosh S K., India

To Day's Plastic Use Becomes Tomorrows Threat To Human Life  
B. Gangadhar, V. Ravi and G. Ramakrishna Naidu, India

Nox mitigation from diesel engine with the combined effect of fuel antioxidant and exhaust scr using waste plastic oil as alternate fuel  
B. Sachuthananthan, G.Balaji, R.L.Krupakaran, India

<b>Technical Session - 28</b>
<b>Emerging Technologies for Waste Valorization and Environmental Protection</b>
<b>Chair:</b> Dr CRC Mohanty, UNCRD, <b>Co-Chair:</b> Prof M. Koteswar Rao, ANU
Flower waste – A potential resource; Ch. Sandeep, D.M. Manikanta; Gujarat; India
Pollution database of Indian river water and possible recruitment of anabas testudineusbloch Debabrata Das India
Effect of CR on the performance, emission, and heat release rate of a DI diesel engine run by B20 blend of waste cooking biodiesel in diesel fuel; Santosh Kumar Dash; India
An insight into characterization, mechanism and kinetics of Congo Red sorption using biowaste FRLP Mohan Rao.T, BasavaRao.V.V.;; India
Purification Technologies of Bioreactor landfill Gas and its sustainable usage: Current Status and Perspectives; Anaya Ghosh, Jyoti Prakas Sarkar, Bimal Das;West Bengal; India
<b>Technical Session - 29</b>
<b>Solid Waste Policies and Strategies: Issues, Challenges and Case Studies</b>
<b>Swachh Bharat Mission</b> <b>Chair:</b> Prof P.Agamuthu, Malaysia <b>Co-Chair:</b> Prof Vinayakam, SSAC
Determinants of Sustainable New Product Development and Their Impacts in Manufacturing Companies;

Sudeshna Roy, Nipu Modak and Pranab K Dan; Kolkata; India
Low Cost and Affordable Innovation 'NEERFLUSH' and 'NEERSWACHH' for Swachh Bharat Mission; Sushant Wath; Maharashtra; India
On Ground Study of the Odf Status of Ghaziabad District, U.P; Padma Kant Jha, Vrinda Sharma; New Delhi; India
Towards formulating a cohesive solid waste management policy, on "recycle –reduce –reuse" model, in amaravati city; Krishna Yagnamurthy*, Dr. Ganesh Babu.K.V*, Moses Kumar.TI, Lakshmi Parthasarathy; Andhra Pradesh; India
Mediation Analysis of Environmental Awareness on Waste Preven; SumanMondal, Sudeshna Roy, NipuModak; Kolkata; West Bengal; India
<b>Technical Session - 30</b>
<b>Urban Mining and Sustainable Waste Management</b>
<b>Landfill</b> <b>Chair:</b> Mr. A V Suresh Babu,Dalmia Cement Limited <b>Co-Chair:</b> Dr Babel, Thailand
Closure & Containment of Dhapa Municipal Dumpsite in Kolkata, West Bengal Dr. Subrat Mukherjee &Debashis Sarkar, West Bengal, India
To Assess The Impact of MSW Dumpsite on The Quality of Ground Water on Outskirts of Paradesipalem Village, Near Kapuluppada At Visakhapatnam, A.P., India. K.Venkateswararao, A.V.V.S. Swamy, V. Subhashini, K. Syamala, ShahedaNiloufer, AP, India

A Sustainable Compressed Earth Block From Landfill Soil Cover Mohamed Suhail T, Renu Pawels, Kerala, India
A Pilot study on Bioremediation of MSW dumpsite in Vijayawada city of Andhra Pradesh by adopting the method of Bio-mining Shaheda Niloufer, A.V.V.S Swami, V. Bhagya Lakshmi, V. Subhashini, AP, India
Comparison of Leachate from Municipal Solid Waste Landfill Sites of India Mohit Somani, Delhi, India
<b>Technical Session - 31</b>
<b>Energy Recovery Processes from Wastes -1</b>
<b>Waste to Energy</b> <b>Chair:</b> Dr Morscheck, Germany <b>Co-Chair:</b> Mr Prakesh kowlessar, Mauritius
Temperature influence on quality and yield of pyrolytic products of seedcake of Kayeassamica; Samajit Gogoi, Rumi Narzari, Neonjyoti Bordoloi, Debashis Sut, Lina Gogoi, Nilutpal Bhuyan and Rupam Katakai; Assam; India
PCDD/PCDFs: a burden from hospital waste disposal plant; plasma arc gasification is the ultimate solution for its mitigation; Saikat Das, Abhijit Hazra & Priyabrata Banerjee; West Bengal; India
Catalytic and non-catalytic thermolysis of waste polystyrene for recovery of fuel grade products and their characterization; Rohit Kumar Singh, Biswajit Ruj, Anup Kumar Sadhukhan & Parthapratim Gupta; West Bengal; India
Energy recovery from tyre waste pyrolysis: Product yield analysis and characterization;

Rohit Kumar Singh, Biswajit Ruj, Anup Kumar Sadhukhan & Parthapratim Gupta; West Bengal; India
Solid State Gas Fermenter To Convert Syn-Gas To Methane; Aastha Paliwal, Hoysall N Chanakya; Karnataka; India
<b>11:40 PM to 1:10PM</b> <b>Concurrent Session</b>
<b>Technical Session - 32</b>
<b>Solid Waste Policies and Strategies: Issues, Challenges and Case Studies</b>
<b>Community Participation</b> <b>Chair:</b> Prof SW Rhee, South Korea <b>Co-Chair:</b> Mr Vladimir Maryev, Russia
Community organisation at the grassroots for traversing the fissures and fractures: waste pickers in Ahmedabad R. S. Sannabhadti; Gujarat; India
Challenges in 'community organisation' of scrap pickers for Swachh Bharat: Reflections from Ahmedabad; Ravi Sannabhadti; Gujarat, India
Community Empowered Academic Interface Role Models For Sustainable Cswm; Jagannatha Venkataramaiah and Prof Shashishankar A; Karnataka
Waste Management - A Case study in Nepal Aisha Khatoon, Lead Nepal, Nepal
Solid Waste Management in India – in a sustainable way; Manjula.O, M Srimurali; Andhra Pradesh; India
Pathways For Ganesh Idol Immersion Process: A Review Of Best Practices By Bbmp; Manjula.C.B., Dr.Sandhya Jayakumar, Dr.S.Gopalakrishnan; Karnataka; India

Environmental Management of Acharya Nagarjuna University Campus, Guntur, Andhra Pradesh, India – A Case Study; Sankara Pitchaiah P, Devakanth P, Nazia Sultana and Israel Ch, Andhar Pradesh; India
A Review on pros and cons of methods of recycling in sustainable waste management; Dr. Velaga Joshi; Andhra Pradesh; India
<b>Technical Session -33</b>
<b>Bio-resource Utilization and Bio-processes</b> <b>Chair:</b> Mr Om Ojo Wuro, Nigeria <b>Co-Chair:</b> Mr Tapas Ghatak
A study on municipal solid waste management Issues with special reference to minimizing challenges; D. Sripriya; Andhra Pradesh, India
The Role Of The Anaerobic Digestion For The Circular Use Of Resources In The Bio-Waste Sector: State Of The Art And New Opportunities Francesco Di Maria and Maria Cristina Lavagnolo, Italy
Optimization Of The Process Of Transesterification Of Lipids Extracted From Desilked Bombyxmori Pupae; Dhivya Priya N, S. Murugan; India
Production of bioethanol from green alga Chlorella vulgaris: An important approach to utilize algal feedstock or waste D. Varaprasad, N. Raga Sudha, K. Paramesh, P. Chandramati Shankar, S. Nazaneen Parveen and T. Chandrasekhar, India
Study of Performance and Emission Characteristics of Diesel Engine Fuelled With Biogas and Rice Bran Oil Biodiesel in Dual Fuel Mode

Mahla S.K, Chauhan B.S., Amit Dhir and Dhinesh India
Synthesis of cellulose from peanut shell waste and its use in bioethanol production Preetha Ganguly and Papita Das India
A critical review on the production of biodiesel from Jatropha, Karanja and Castor feedstocks Moiching Sajit Ahamed, Santosh Kumar Dash, Awinash Kumar and Pradip Lingfa, India
<b>Technical Session - 34</b>
<b>Energy Recovery Processes from Wastes – 2</b> <b>Chair:</b> Dr. C. L. Venkata Rao, SAM AP, <b>Co-Chair:</b> Dr. Priyabrata Banerjee, CMERI, Durgapur
Co-processing of Trade Rejects in Cement Plant - A Critical Analysis; Rahul Baidya, Sadhan Kumar Ghosh and Ulhas Parlikar; Kolkata; India
Generation of Energy from Waste Management; Dr. S. Shobha Rani; Andhra Pradesh; India
3 Stage Reactor Design To Convert Msw To Methanol Aastha Paliwal, Hoysall N Chanakya; Karnataka; India
Investigation on Engine Characteristics Powered with Waste Hdpe Oil Obtained From Catalytic Pyrolysis And Study On Nox Emission Variation Using Thermal Imager; Mohamed Nishath P, Sekar K, Mohamed Shameer P, Surendran R, Muhammad Usman Kaisan, Shitu Abubakar, Senophiyah Mary J and Teema Thomas; India & Nigeria
Application of Artificial Intelligence

to Predict the Engine performance and emission paradigm fuelled with diesel-biodiesel blends; Kiran Kumar Billa, Dr. G. R. K Sastry and Dr.Madhujit Deb;Agartala; India
Case study of Use of hazardous and other wastes as alternate fuel and raw materials – provisions for co-processing in new waste management rules, 2016; B.Madhusudhana Rao; Andhra Pradesh, India
Modelling and Simulation of Biodiesel from Various Feed Stocks into Compression Ignition Engine; Muhammad Usman Kaisan, ShituAbubakar, FataiOluKayodeAnafi, SamailaUmaru, Mohamed Shameer P, Umar Ali Umar, Sunny Narayan P, Mohamed Nishath P and J. Senophiyah Mary; India & Nigeria
Sesame Stalk as a Feedstock for Thermo-chemical Conversion: Products Distribution and Characterization; SamarjitGogoi, NilutpalBhuyan, DebashisSut, Rumi Narzari, Lina Gogoi and RupamKataki; Assam; India
Municipal Solid Wastes – A promising sustainable source of energy: A review on different waste to energy conversion technologies C.K. Parashar, P. Das, S. Samanta, A. Ganguly, P.K. Chatterjee; West Bengal; India
<b>Technical Session - 35</b>
<b>Waste Management as Economic Industry towards Circular Economy - 1</b>
<b>Waste Management</b>

<b>Chair:</b> Director, Rao Diviz Lab. <b>Co-Chair:</b> Director, The Andhra Sugar Limited
Availability Of Waste Management Services: Study Of Residential Areas In Delhi; BiniSamal and Shyamala Mani; Madhya Pradesh; India
Initiatives for Solid Waste Management at Mulki Town Panchayath; Indu M; Karnataka; India
Challenges in Solid Waste Management in Jalandhar City: A Review; Rajesh Chaudhary, Saurabh Singh, Santosh Vaddepally, Krishna Agarwal and AnkitKotia; Punjab; India
Wastewater Treatment Techniques for Sustainable Aquaculture; Darwin Chatla, PamulapatiPadmavathi and GatreddiSrinu; Andhra Pradesh; India
Comparative evaluation of on-site waste management in Europe and China; Zhikun Chen, JianliHao and Francesco Di Maria; United Kingdom
Physical, chemical analysis of solid waste and energy recovery from combustible waste of institution – a case study of srivenkateswara university college of arts K.PRAVALLIKA and N.MUNILAKSHMI; Tamil Nadu; India
Waste management: jain international residential school (jirs); Kripa Krishna; Karnataka; India
To Study Information, Education and Communication (IEC)

<p>Campaign as a Tool to Spread Awareness in Understanding the Support of 3R Concept for Waste Minimization in Indore City as the Cleanest City of India"; JagdishChouhan; Gujarat, India</p>
<p>Bioconversion of Mango Industrial Waste into Vermicompost: Evaluation of Nutritional Status of Vermicompost Mastan M., India</p>
<p>Valorisation of lignocellulosicsolid wastes through solid-state fermentation: Understandingreactor design aspects with fungal cultures. Satyanarayana Reddy Battuloand Ramkrishna Sen West Bengal, India</p>
<p><b>Technical Session - 36</b></p>
<p><b>Recent Trends in Waste Water Treatment and Water Resource Management</b> <b>Chair:</b> Mr. D.C.S. Varma, Joint CIF, AP <b>Co-Chair:</b></p>
<p>Function of isolated microbial consortium in PBR for treatment of agrochemical effluent: growth kinetics, process modeling and toxicity TiyashaKanjilal and Siddhartha Datta; India</p>
<p>Adsorption of Amaranth Dye From Aqueous Solution Using Eggshell Powder Joanna sharmili G, Dr. Ramesh Malothu, India</p>
<p>Cost effective natural plant based coagulant for the removal of chloride from potable water ThamaraiselviChandran, SofiavizhimalarAsaithambi, Ahila Krishnan, NandhiniSenthilkumar, Vasanthymuthunaryanan India</p>

<p>Novel Utility Of Bacteria Of Fish Gut Wastes Collected From Local Markets For Detoxification Of Textile Dyes And Recycling Of Water For Cultivation C. ReddiRoja, V.Sumathi, D.SaiVinathi, T.Hemalatha, D.C.Reddy and V.Kalarani India</p>
<p>Utilization of Rice Husk Ash for defluoridation of water C.M.VivekVardh, M.Srimurali, India</p>
<p>A Noble Experimental Analysis to Increase Performance and to Control Emission Characteristics on IDI Diesel Engine using Blends of Biodiesel and Diesel Additive Jibitesh Kumar Panda, G.R.K Sastry and C.S.P Rao India</p>
<p>Leaf litter biogas digester residue- A nutrient supplement for mushroom cultivation Sreeshamalayil, Hoysall N Chanakya India</p>
<p>Adsorptive Removal Of Basic Dye From An Aqueous Solution By Using Prefomed Floccs NijagalaMunilakshmi, MuduruSrimuralia and JanakiramKarthikeyana India</p>

## List of Posters Presentation:

The authors are requested to prepare the poster as per the template printed on art paper and bring to the conference venue. The posters are to be displayed on 21st afternoon between 2 pm to 7 pm and on 22nd between 8 am and 9 am. The full papers submitted for the posters have been published in the proceedings and also will be considered for publication in the Springer books and special issues of journals.

Poster Code	Paper code	Author/Co-authors	Title of paper
P1.	M 128	Sutripta Sarkar <sup>1</sup> & Subhasree Banerjee <sup>2</sup> 1PG Department of Food and Nutrition 2PG Department of Microbiology Barrackpore Rastraguru Surendranath College 85, Middle Road, Barrackpore- 700120 #Corresponding author email: sarkar.sutripta@gmail.com	Growth and Enzyme Activity of Lipolytic Bacteria Isolated from Degrading Oil Cakes
P2.	M 130	B.Srinivas* <sup>1</sup> , C.M.Narendra Reddy <sup>1</sup> and P.V.Chaitanya lakshmi <sup>1</sup> Department of Biotechnology, School of Herbal studies and Naturo sciences, Dravidian university, Kuppam- Andhrapradesh, India. Renuka D, Dr. Ramesh Malothu*	Ozone Tolerance: A Review On Cloning And Characterization Of Ozone Tollerent Genes For The Production Of Transgenic Plants.
P3.	M 98	Department of Biotechnology, Institute of Science and Technology, Jawaharlal Nehru Technological University Kakinada, Andhra Pradesh, S. Altaf Hussain <sup>1</sup> *, S.M.Subhani <sup>2</sup> , S.V. Satyanarayana <sup>3</sup>	Bovine Tuberculosis Developing Kit And Their Validation In Wild And Domestic Animals
P4.	M 111	Lords Institute of Engineering & Technology, Hyderabad, Telangana, Department of Chemical Engineering, JNTUA College of Engineering, Anantapur, A.P, India 3JNTUA University Ananthapuramu, Anantapur, A.P, India – Dr. R.Jaya Madhuri*, M. Saraswathi, K. Gowthami	The Use Of Granite Industry's High Density Waste As A Cement Substitute
P5.	M 143	Sri Padmavathi Mahila Visvavidhyalayam, Tirupati, Andhra Pradesh, Swabna Vivekanandam <sup>1</sup> , Selvakumar Muniraj <sup>2</sup> , Vasanthi Muthunayanan <sup>2</sup> *	Bioethanol Production From Natural Plant Substrates Of Terrestrial Source
P6.	M 150	1Department of Biotechnology, St.Joseph's college, Tiruchirappalli-620 001, Tamil Nadu, India 2Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India	Melanoidin Induced DNA Damage And Effects On Antioxidative Enzymes In Earthworm (Eudrilus Eugeniae)

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P7.	M 59	Nijagala ,MuduruSrimuralia JanakiramKarthikeyana aDepartment of Civil Engineering, S.V. University , A.P, India *Dr. A. Suvarna Latha, Dr.K.S.Shanthi Sree, Dr.P.Lakshmi Padmavathi, Prof.D.Bharathi	Munilakshmi*a and Adsorptive Removal Of Basic Dye From An Aqueous Solution By Using Prefomed Flocs
P8.	M 62	Prof.K.Nagalakshamma Dept. of Biosciences and Sericulture, Sri Padmavati Mahila Visvavidyalayam (Women's University), Tirupati T.Sudha Rani and Dr.P.Suvarnalatha Devi	and Role Of Medicinal Plants In Increasing Green Economy For A Better Sustainability
P9.	M 80	Department of Applied Microbiology Sri Padmavati MahilaVisvavidyalayam, Tirupati, A.P. Anil Thumati+, Kranti Kuruti+1, Sudharshan Juntupally+1, Vijayalakshmi Arelli+1, Sameena Begum+2, A. Gangagni Rao+1*	Degradation Of Fenitrothion (Organophosphate Insecticide) By Fungi From Agricultural Soils
P10.	M 85	+Bioengineering and Environmental Sciences (BEES) Group, Center for Environmental Engineering and Fossil Fuels (CEEFF), CSIR-Indian Institute of Chemical Technology (IICT), Tarnaka, Hyderabad, India 1Academy of Scientific and Innovative Research (AcSIR) 2School of Engineering, Royal Melbourne Institute of Technology (RMIT), Australia Hemavathi. B*, Shobha Rani .A and D. Bharathi	Rice Gruel Water (RGW): A Potential Substrate For Rapid Biogas Generation Through High Rate Biomethanation Technology
P11.	M 89	Department of Bioscience & Sericulture, Sri Padmavathi Mahila Visvavidyalayam,Tirupati	Impact Of Plastics On Human Health And Environment
P12.	M 96	Geethika G, Dr. Ramesh Malothu* Department of Biotechnology, Institute of Science and Technology, Jawaharlal Nehru Technological University Kakinada, Andhra Pradesh, Anaya Ghosh, BiswajitDebnath, Sadhan Kumar Ghosh	Formulation Of Low Cost Media From Extraction And Its Optima Utilization In Production Of Bi-Products From Bacteria
P13.	M 171	Department of Chemical Engineering, NIT Durgapur, WB, India Department of Chemical Engineering, Jadavpur University, WB, India Department of Mechanical Engineering, Jadavpur University, WB, India	Biomedical Waste Management in West Bengal: Current Practices, Issues and challenges
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P15.	M 174	Mr. M.J.Muthukumaraswamy, Mr. Siva Subbarayudu Kasturi PC - CB & IEBC, O/o.DMA, MA&UD Dept., GoAP, India Project & Human Resources Management Consultant, MA&UD, GoAP, India Presenter: Padma Gunde Swapnil Hadke, Swapnil Martode and Shradha Admane	Achieving Global Goals (SDGs) by Acting Locally
P16.	16	MIT Academy of Engineering, Dehu Phata, Alandi, Pune-412105, India Dr Prabhansu, Krishna Kant Dwivedi, Malay Kr Karmakar and Pradip Kr Chatterjee	Algae Photobioreactor (PBR): A Clean Source Of Energy
P17.	23	Muzaffarpur Institute of Technology, India National Institute of Technology Durgapur, India CSIR-Central Mechanical Engineering Research Institute, Durgapur, India Jibitesh Kumar Panda, G.R.K Sastry and C.S.P Rao	Status Of Sewage Treatment In Bihar And Needs For Improvement
P18.	30	National Institute Of Technology, Agartala, India National Institute Of Technology, Andhra Pradesh, India	A Noble Experimental Analysis To Increase Performance And To Control Emission Characteristics On IDI Diesel Engine Using Blends Of Biodiesel And Diesel Additive
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P20.	33	Malini Basu, Sayanti Chakraborty, Kausik Mondal, Pradip Barman and Pardia Dutta Barrackpore Rastraguru Surendranath College, Department of Microbiology, India Komal Duhan, Rachna Gulati and Mukhan Wati*	Microbial Community Analysis Of Soil Samples From Ganga River Bank Receiving Industrial Effluents Using Sole Carbon Source
P21.	47	Department of Zoology & Chemistry Chaudhary Charan Singh Haryana Agricultural University(Hisar) Dineshkumar Masilamani, Balaraman Madhan, Palanivel Saravanan	A Review : Municipal Solid Waste Management In India
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P30.	95	Ahmadu Bello University, Zaria, Nigeria Tharun Dolla and Boeing Laishram Indian Institute of Technology Guwahati, India	Procurement Of Low Carbon Municipal Solid Waste Infrastructure In India Through Public-P Rivate Partnerships
P31.	96	Teema Thomas, J Senophiyah Mary, R Loganath and Mohamed Shameer Government College of Technology,Coimbatore,India Indian Institute of Engineering Science and Technology, India NIT, Suratkal, India	Application Of Modified Yard Waste For Removal Of Hexavalent Chromium

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**9th Regional 3R Forum in Asia and the Pacific,  
4 to 6 March 2019 in Bangkok, Kingdom of Thailand**

The Ministry of Natural Resources and Environment of The Kingdom of Thailand (MoNRE), the Ministry of the Environment of the Government of Japan (MOEJ), and the United Nations Centre for Regional Development (UNCRD) of Division for Sustainable Development Goals (DSDG) / UN DESA will co-organize the 9th Regional 3R Forum in Asia and the Pacific from 4 to 6 March 2019 in Bangkok, Kingdom of Thailand. With the theme of “**3R as a way for moving towards sufficiency economy – Implications for SDGs**” aims to address how 3R and resource efficiency could play a critical role in achieving sufficiency economy, which advocates rationale use of natural resources that gives people better environment, quality of life and livelihood security as well as prudence and built-in self-immunity to cope with external shocks and global volatility through balanced development.

Among others, the 9th Regional 3R Forum in Asia and the Pacific is supported by the International Society of Waste Management, Air and Water (ISWMAW) through convening an official pre-event, the 8th International Conference on Sustainable Waste Management (8<sup>th</sup>IconSWM), 22-24 November 2018, Vijayawada, Andhra Pradesh, India. More details on the 9<sup>th</sup> Regional 3R Forum could be found at UNCRD official website –

<http://www.uncrd.or.jp/?page=view&nr=1174&type=13&menu=198>

**Places of Interest in Vijayawada:**

<p><b>Kanaka Durga Temple</b> :Kanaka Durga temple in Vijayawada, is the most visited pilgrim centre, with pilgrims visiting the place to attain meritorious worlds and ultimately salvation, the goal of human life. Kanaka Durga temple is situated on the mountain named Indrakeeladri on the banks of the river Krishna.</p>	
<p><b>Undavalli Caves</b> : The Undavalli Caves, a monolithic example of Indian rock-cut architecture and one of the finest testimonials to ancient viswakarma sthapathis, are located in Undavalli of Guntur district in the Indian state of Andhra Pradesh. The caves are located 6 km south west from Vijayawada, 22 km north east of Guntur City of Andhra Pradesh. It is one of the centrally protected monuments of national importance.</p>	
<p><b>Bhavani Island</b> : Bhavani Island situated in the midst of the Krishna River, at Vijayawada. It is located at the upstream of Prakasam Barrage and is considered as one of the largest river islands in India, with an area of 133 acres (54 ha)</p>	
<p><b>Prakasam Barrage</b> : The structure of the Prakasam Barrage stretches 1223.5 m across the Krishna River connecting Krishna and Guntur districts. The barrage serves also as a road bridge and spans over a lake. The three canals associated with the barrage run through the city of Vijayawada, crossing it and giving it a Venetian appearance.</p>	
<p><b>Gandhi Hill</b> : The Gandhi Hill (elevation 500ft (150m)) is a hill in Vijayawada, situated behind the Vijayawada railway station in the Tarapet area. A Gandhi Memorial, built on this hill, is the first in the country to have seven stupas. The hill is also popularly known by the name of Gandhi.</p>	

<p><b>Venkateswara Temple</b> : Venkateswara Temple is a landmark Vaishnavite temple situated in the hill town of Tirumala at Tirupati in Chittoor district of Andhra Pradesh. The Temple is dedicated to Lord Sri Venkateswara, an incarnation of Vishnu, who is believed to have appeared here to save mankind from trials and troubles of Kali Yuga. Hence the place has also got the name Kaliyuga Vaikuntham and the Lord here is referred to as Kaliyuga Prathyaksha Daivam. The temple is also known as Tirumala Temple, Tirupati Temple, Tirupati Balaji Temple. The hills are 853 metres (2,799ft) above sea level. The Hills comprise seven peaks, representing the seven heads of Adishesha. The temple lies on the seventh peak - Venkatadri, on the southern banks of Sri Swami Pushkarini, a holy water tank. Hence the temple is also referred to as "Temple of Seven Hills". Tirumala town covers about 10.33sqmi (26.75km<sup>2</sup>) in area.</p>	
<p><b>Visakhapatnam</b> : Visakhapatnam is the largest city and the financial capital of the Indian state of Andhra Pradesh. The city is the administrative headquarters of Visakhapatnam district and the Eastern Naval Command of the Indian Navy, State headquarters of Indian Coast Guard. Its geographical location is amidst the Eastern Ghats and the coast of the Bay of Bengal. Visakhapatnam is a major tourist destination and is particularly known for its beaches. [19] It is referred to by many nicknames such as "The City of Destiny" and "The Jewel of the East Coast".</p>	
<p><b>Araku Valley</b> : Araku Valley is a hill station and valley region in the southeastern Indian state of Andhra Pradesh. It's surrounded by the thick forests of the Eastern Ghats mountain range. The Tribal Museum is dedicated to the area's numerous indigenous tribes, known for their traditional Dhimsa dance, and showcases traditional handicrafts. A miniature train runs through Padmapuram Gardens, with its sculptures and tree-top huts.</p>	



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