

11th IconSWM-CE 2021 & IPLA Global Forum 2021

The Biggest International Conference Platform on the subject in India with 47 Participating Countries

11th International Conference on Sustainable Waste Management & Circular Economy & IPLA Global Forum 2021 Programme Booklet

Principal Organisers :



Co-Organiser :



Sponsors :



11th IconSWM-CE & IPLA Global Forum 2021

December 01 – 04, 2021; on Virtual Platform from Jadavpur University, Kolkata
International Society of Waste Management, Air and Water (ISWMAW)
Consortium of Researchers in International Collaboration (CRIC)



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Please Register & Join; How to join: Please click on [[Click to Join](#)] beside Hall number, reach the Hall.

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Program Schedule: 11th IconSWM-CE & IPLA Global Forum 2021 [Time: IST (UTC+5.30) (+5.30 GMT)]

[Keynote Session -One; Plenary sessions - Five; Special Sessions- Fourteen; Technical Sessions- Twenty-Three; Total Presentations: 325]
(Official Pre-Event of the 11th Regional 3R and Circular Economy Forum in Asia and the Pacific 2022, to be held in Russia)

Request to you: Kindly attend & circulate the schedule to your network for more participation of related stakeholders, (Masters and PhD students, researchers, Industries, government agencies, municipalities, SWM operators, NGOs and others.

Registration link: <https://forms.gle/sdgzNzDzqzH8aDAe6>

Joining Link:

You may join the meeting by clicking the [Click to Join} written beside the Hall number. Hall 1, 2 and 3 will allow you to join in the **Webex Cisco Platform** while Hall 4 will allow you in Googlemeet Platform.

Presenters are requested to use laptop and download the **Webex Cisco** app and for hall 4 the googlemeet app. .

Presentation Durations in sessions: Keynote: 20 minutes; Plenary:15 Mins; Special Sessions: 12 Mins; Technical Sessions:10Mins

SEND YOUR ppt: File name as Session Number_ paper code (e.g., TS_4_AB_5_ ; OR, PS_4_ FP_24 etc) to: iconswm.ce@gmail.com before Nov 30, 2021. The speaker will share the ppt. In case of any problem, our secretariat will share.

Contacts

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Please Read Carefully: Guidelines for Chairs, Speakers and Participants to join sessions.

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Speakers and Chairs: Kindly be present in the hall 15 minutes earlier before the beginning of session. If any speaker is not available the chairs or organisers will proceed to next speaker. If any speaker is unable to share the screen for presentation, our organisers will share the screen on behalf of the speaker to avoid delay.

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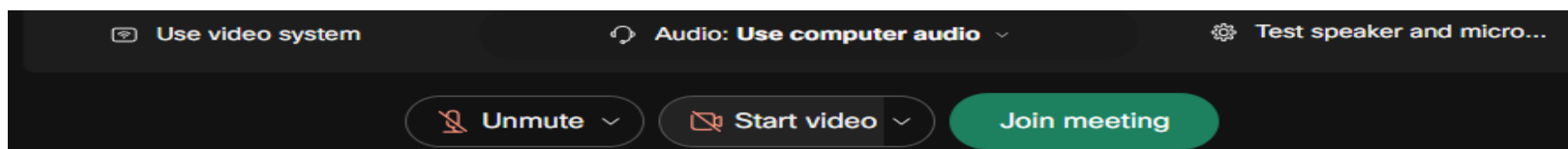
HALL 1 [Click to join]

HALL 2 [Click to join]

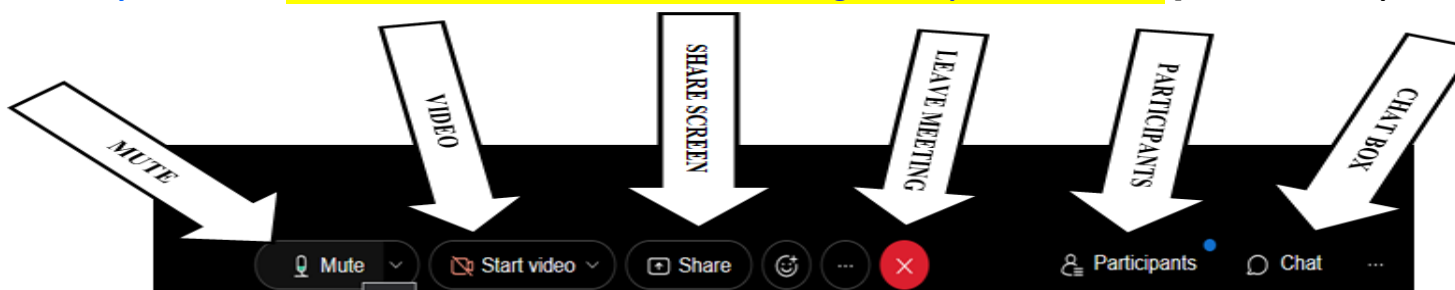
HALL 3 [Click to join]

HALL 4 [Click to join]

1. First click on [Click to join] to join the meeting platform. It will allow you entering the hall & following screen will appear. Click, Join Meeting.



2. All the participants and presenters are requested to turn off your microphone and camera while joining: only turn on when requested.
3. At the bottom you will find MIC, Camera, Screen Share, leave meeting, Participants, Chat Box. [Please see the provided picture below].



4. Presenters (use laptop) are requested to click on the share button to share his screen. All the presenters are requested to switch on the presentation mode/ Full screen mode while presenting the ppt and click to unmute & start presenting. After presentation close ppt file
5. You can leave the meeting by clicking on Leave button. You can join again by [Click to join] on the schedule in any hall.
6. If you have any problem in the meeting, you may leave and join again in similar way. If you want to join another session, you have to leave from one session and then join another. Platform won't allow you to join two sessions at a time using one device.

Pre-Events of 11th IconSWM-CE & IPLA Global Forum 2021 held in 2021

SI	Topic of Webinar, Organisers, Participation details
1.	<p>World Environment Day 2021 Meeting- “Environmental Restoration and Circular Economy”, On 5th June, 2021 International Society of Waste MANAGEMENT, Air and Water (ISWMAW), SINTEF, Norway, the Consortium of Researchers in International Collaboration (CRIC), Centre for Sustainable Development & Resource Efficiency Management, Jadavpur University, United Nations Centre for Regional Development (UNCRD) Japan, International Solid Waste Association (ISWA), Netherlands, Centre for South East Asian (CSEAS), Indonesia and IPLA. 550 participants from 28 countries,</p>
2	<p>2nd World Environment Day 2021 Meeting “Environmental Restoration and Circular Economy”; 12th June, 2021; 210 participants, 13 countries, International Society of Waste MANAGEMENT, Air and Water (ISWMAW), SINTEF, Norway, Consortium of Researchers in International Collaboration (CRIC),</p>
3	<p>Pre event in Bangladesh: Environmental Restoration towards Circular Economy, 14th June, 2021; 120 participants, 5 countries, Organised by Chittagong University of Engg & Technology, Bangladesh.</p>
4	<p>Workshop: Guidelines for addressing Resource Efficiency, Secondary Raw Materials & Circular Economy in Industries International Society of Waste MANAGEMENT, Air and Water (ISWMAW), SINTEF, Norway, the Consortium of Researchers in International Collaboration (CRIC), Centre for Sustainable Development & Resource Efficiency Management, Jadavpur University, 24th June 2021; 315 participants from 20 countries,</p>
5	<p>2nd Workshop on Guidelines for addressing Resource Efficiency (RE), Secondary Raw Materials (SRM) and Circular economy s(CE) in Industries ISWMAW, CRIC, Centre for Sustainable Development & Resource Efficiency Management, Jadavpur University, 20th July, 2021; 223 participants from 16 countries</p>
6	<p>Workshop (3) : Guidelines for addressing Resource Efficiency, Secondary Raw Materials & Circular Economy in Industries 3rd August 2021; 310 participants from 17 countries</p>
7	<p>Workshop: Legacy Dumpsite Management- Biomining, Bio-Remediation and other Best Practices; 20.08.2021; 275 participants; 12 countries ISWMAW, Centre for Sustainable Development & Resource Efficiency Management, Jadavpur University & CRIC</p>
8	<p>Pre-event at Tunisia: Plastic Waste Management Initiatives Promoting Circular Economy in Africa, Europe and Asia; Organised by Research and Technology Centre of Energy (CRTEN- Tunisia), Environmental Engineering Consulting (EEC – Lebanon), National Agricultural Research and Innovation Centre (NARIK – Hungary), Indo-German Centre For Sustainability (IGCS). 24 September 2021; 240 participants from 15 countries</p>
9	<p>Pre event in Indonesia: International Webinar: “Sustainable Waste Management and Circular Economy in Indonesia: Challenges and Opportunities” Organised by CSEAS and other organizations in Indonesia; 10 November 2021; 140 participants from 8 countries</p>

Chairman's Message :

I, Prof. Dr. Sadhan Kumar Ghosh, as the Founder & Chairman of 11th IconSWM-CE & IPLA Global Forum 2021 and the President of ISWMAW, & IPLA Global Secretariat express my heartfelt gratitude to all the Speakers, Chairs/Co-chairs, sponsors, principal organizers, Organizing Partners, members in the committees, members in Country Specific Working Groups, Delegates, and their sponsoring organizations, hall management and the organizers for their support & participation in 11th IconSWM-CE & IPLA Global Forum 2021 under this stressed pandemic COVID-19 situation.



Building on the new evidence from the IPCC, the 26th United Nations Climate Change Conference of the Parties (COP26) is charged with the growing urgency of accelerating global ambition and action on both mitigation and adaptation. This year, the spotlight is on the new and updated nationally determined contributions (NDCs) that countries were requested to submit in advance of COP26. The September 2021 version of the NDC Synthesis Report published by the UNFCCC illustrates, the new and updated NDCs are insufficient to achieve the temperature goal of the Paris Agreement.

There is a 50-50 chance that global warming will exceed 1.5°C in the next two decades, and unless there are immediate, rapid and largescale reductions in GHG emissions, limiting warming to 1.5°C or even 2°C by the end of the century will be beyond reach. The achievement of the net-zero pledges that an increasing number of countries are committing to would improve the situation, limiting warming to about 2.2°C by the end of the century. However, the 2030 commitments do not yet set G20 members (accounting for close to 80 per cent of GHG emissions) on a clear path towards net zero. Effective Waste Management and Circular economy are related actions too to combat with the situations.

I hope that the event will make a fruitful discussion with your support and help. I am sure that the discussion in this platform will help bringing forward the recent trends in research & development, policy instruments, implementation strategies & status and future plans in generating awareness and promoting the protection of environment, sustainable waste management, concept of circular economy & resource efficiency, implementation of SDG 2030, enhancing the efficiency in reduction of extraction of natural resources and to look into the waste management as business proposition in tandem with social commitment.

I look forward to see you in 12th IconSWM-CE & IPLA Global Forum 2022 in physical mode in person. We need your support for the sustainability of this global platform and for its improvement.

Participating Countries in 11thIconSWM-CE 2021 & IPLA Global Forum 2021 welcome all the participants from different countries, namely: Australia, Austria, Bangladesh, Belgium, Brazil, Canada, Cambodia, China, Ethiopia, Egypt, Fiji Island, France, Georgia, Germany, Hong Kong, Hungary, India, Indonesia, Italy, Japan, Kazakhstan, Kenya, Lebanon, Malaysia, Maldives, Mauritius, Morocco, Mexico, Micronesia, Nepal, Nigeria, Norway, Oman, Philippines, Papua New Guinea, Republic of Korea, Russia, Serbia, Spain, Slovenia, Sri Lanka, Solomon Island, Thailand, Togo, Tunisia, Tuvalu, UK, USA, Vietnam, Zambia.

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<p>Prof. Gabriela Munoz-Melendez, El Colegio de la Frontera Norte Prof. Gian Carlo Delgado-Ramos, Nat. Autonomous Univ. Of Mexico</p>	<p>Dr. Kare H. Karstensen, SINTEF Mr. Palash Saha, SINTEF</p>
Nepal	Philippines
<p>Prof. Nawaraj Khatiwada Ms. Prasanuna Maskey Dr. Jyoti Giri, Dr. Anish Ghimire, Mr. Bijay KC, Mr. Pankaj Panjiyaar, Mr. Dhan Prasad Acharya, Mr. Bibhu Raj Aryal, Prof. Dr. Rejina Byanju</p>	<p>Prof. Alberto Naperi Dr. Arturo Figueroa Prof. Arlen Ancheta Dr. Lynlei Pintor; Dr. Aries Ativo Mr. Wencelito Hintural Mattheus Imcon Abris Ms. Russel Olan; Mr. Allan Alzona, Mr. Fe Ociones, Mr. N. C, Santiago, Mrs. Grace Saupay; Mr. Josel Godezano Ms. Evelyn B. Cajucom</p>
Russia	Saudi Africa
<p>Dr. Vladimir Maryev Prof. Maria Liubarskaia, Dr. Tatiana Smirnova Ms. Daria Ipatova,</p>	

Mr. Dmitry Yaroslavtsev	
Slovenia	Sri Lanka
Dr. Kos Igor, Institute for CE, Maribor, Dr. G. Košir Ladeja, Institute for CE, Ljubljana, Dr. Bavcon Kralj Mojca, Univ. of Ljubljana Dr. Trebše Polonca, Univ. of Ljubljana	Mr. Ajith Weerasundara, DDG, Env. Edn & Awareness, CEA; Dr. A. Karunarathna, Univ. of Peradeniya, Mr. Prabuddha, CEA;
Syria	Thailand
Prof. . Anwar G jiries, Mu'Tah University, Engr. Riad Kabikli, Syriae; Engr. Sami Dibs, Entrepreneur of WM	Prof. C. Viswanathan, AIT Prof. S. Babel
Turkey	Tunisia
Prof. Dr. Mehmet Sinan Biligili, Yildiz Technical University, Prof. Güray Salihoğlu, Bursa Uludag University, Dr. Şule Turhan , Bursa Uludag University Gaffar İhsan İpeker,, MD, Ipeker Textile Industry and Trade Co., Bursa Dr. Nezh Kamil Salihoğlu, Bursa Uludag University	Dr. Aida Ben Hassen, ERTC, Dr. Kaouther Zaafouri, Univ of Carthage Prof. Cheima Fersi, Institute National de Recherche et d'Analyse Physico- chimique, Prof. Borhane Mahjour, ISCAM University of Sousse,
USA	Vietnam
Dr. Ronald Merskey, Widener University, Chester, Prof. Serpil Guran, Director, Rutgers EcoComplex, "Clean Energy Innovation Center", NJ Mr. Sannidhya Kumar Ghosh, University of Colorado Boulder, Dr. Shamim Ahsan, Metropolitan State University of Denver, Prof. T. Das, St Martin Univ.	Dr. Nguyen Trung Thang, DDG, ISPONRE; Asso. Prof. Van Dinh Son Tho, HUST; Dr. Nguyen Duc Quang, HUST; Prof. Dr. Nguyen Thi Kim Thai, Vice- Director, INEV, NUCE; Asso. Prof. Nguyen Thi Ha, Dean, FEE, VNU Assoc. Prof. Tran Thi Viet Nga, NECE; Dr. Nguyen Hoang Nam, Researcher, ISPONRE; Nguyen The Thong, Researcher, ISPORE Duong Thi Phuong Anh, Dy. Head, ISPONRE; Nguyen Thi Ngoc Anh, Researcher, ISPONRE; Nguyen The Thong, Researcher, ISPONRE
UK	Zambia
Prof. P. K. Dey, Aston University Prof. Davis Phillip, Univ of Birmingham, Dr. Amit Chattopadhyay, Aston Univ. Dr. Jonathan Nixon, Coventry Univ. Dr. Debashree De, Essex Business School, Dr. Richard Blanchard, Loughborough Univ. Prof. Rebrov Evgeny, Warwick Univ. Prof. Pawan Budwar, Aston Univ. Dr. Costas Velis, Univ. of Leeds Mr. Andrew Farmer, IUEP, Dr. S. Roy	Dr. Bupe Getrude Mwanza Dr. Flora K. Chitalu, Dr. Joseph Mwanza, Mr. Kachikoti Banda, Asst. Dir, PHE, Lusaka Mr. Mohmedriyaz Iliyas Valibhai Patel

Republic of South Korea	Kazakhstan
Prof. S. W. Rhee, Kyonggy University, South Korea	Prof Ankit Garg, LNGE National University Prof Zhanbolat Shakhmov, LNGE National Univ. Prof. L.N. Gumilyov, Eurasian National Univ. & St. Petersburg State Arch. & Civil Engg, Russia
The committee of the Waste Management Project at Synod College, Shillong, Meghalaya, sponsored by	
International Society of Waste Management-Air and Water (ISWMAW -IconSWM-CE) in collaboration with the Science Departments under the DBT star college scheme Synod College Shillong Meghalaya India.	
The project will be inaugurated on 11st December 2021 at Synod College, Shillong, Meghalaya	
Proect Mentor: Prof. Dr. Sadhan kumar Ghosh, President, International Society of Waste Management-Air and Water, and Chief Coordiantor, Centre for Sustainable Development and Resource Efficiency Management, Jadavpur University, India.	
Committee members at Synod College, Shillong, Meghalaya:	
Dr. R. M. Lyngdoh – Principal, Dr. M. Rani - Vice Principal, Dr. G. Lyngdoh - Coordinator IQAC, Associate Professor. Dr. W. Kharmawphlang, Associate Professor, H.o. D , Department of Chemistry, Coordinator DBT- Star College scheme, Synod College, Shillong. Smt. G. Kharsyntiew, Associate Professor, Head, Department of Physics, Convener Discipline and Cleanliness Committee, Shri N. Kharbani, Associate Professor,	Dr. A. J. langrai, Assistant professor, Dr. H. Swer , Assistant professor, Shri M. D. Wanswett, Assistant professor. Shri. D. G. L. Khongwir, Lab. Technician, Dr. P. Nongkhling, Assistant professor. Dr. A. Lapasam, Assistant professor. Ms. I. Dkhar, Assistant professor.
Invitees:	
Officer, Shillong Mucipal Corporation; Officer, Meghalaya State Pollution Control Board	
Other Waste Management project mentored by Prof. Sadhan K Ghosh from ISWMAW :	
<ol style="list-style-type: none"> 1. Waste Management Project at Tenali Municipality, Andhra Pradesh in 2018-2019. 2. M/s Safenviron, the bio medical waste treatment facility at at Chinakakani Village, Mangalgiri, in Guntur District, Andhra Pradesh from 2018. 	

**11th IconSWM-CE 2021 & IPLA Global Forum 2021 Organisers: International Society of Waste Management, Air and Water (ISWMAW),
Centre for Sustainable Development and Resource Efficiency Management, Jadavpur University, India, IPLA and
UNCRD**

Sponsored by : SINTEF, Norway; DIVIS laboratory, India; GIZ India and Indian Oil Corporation, Pipelines Division, India

Introduction by Dr. Sutripta Sarkar and Dr. Kaniska Sarkar,

Good morning, good afternoon and good evening. We welcome all the participants, delegates, experts, mentors, sponsors, organizers, members of the ISWMAW to the 11th Iconswm-CE 2021 & IPLA Global Forum 2021, which is being organized by, International Society of Waste Management, Air and Water (ISWMAW), Centre for Sustainable Development and Resource Efficiency Management, Jadavpur University, India, elvelv

Prof. Dr. Sadhan Kumar Ghosh, Founder and Chairman, 11th IconSWM-CE & President of ISWMAW, expresses his gratitude to all the speakers, chairs/co-chairs, sponsors, principal organizers, organizing partners, members in the committees and Country Specific Working Groups, participants and their sponsoring organizations, hall management and the co-organizers for their support & participation in 11th IconSWM-CE 2021 & IPLA Global Forum 2021 from 47 countries, UNCRD, UNIDO and UNEP under the stressed pandemic COVID 19 situation. We hope to present a meaningful event.

The objectives of the event are to develop awareness among all the stakeholders for the protection of environment, sustainable waste management, promotion of the concept of circular economy & resource efficiency, implementation of SDG 2030, enhance the efficiency in reduction of natural resources and to look into the waste management as business proposition in tandem with social commitment. We are all reeling under the impact of Covid-19 and hence maintaining the normal pandemic protocol, already we have organized the International Conference for 10th IconSWM-CE in 2020 via virtual mode and similarly the 11th IconSWM-CE 2021 & IPLA Global Forum 2021 is being held. International Society of Waste Management Air and Water and the IconSWM-CE were established by Prof. Sadhan Ghosh in the year 2009 with a group of experts in various countries with the objectives of bringing together all researchers, policy makers, industries, NGOs and international societies working on waste management for building a cleaner and better society. Every year the International Conference on Sustainable waste Management and Circular Economy is organized by ISWMAW with the support of other collaborators.

This event will allow around 320 papers and 330 presentations from 47 countries. 11th IconSWM-CE 2021 & IPLA Global Forum 2021 is being participated by more than 1000 delegates, experts and speakers from Australia, Austria, Bangladesh, Belgium, Brazil, Canada, China, Ethiopia, Egypt, Fiji Island, France, Georgia, Germany, Hungary, India, Indonesia, Italy, Japan, Kazakhstan, Kenya, Lebanon, Malaysia, Maldives, Mauritius, Morocco, Mexico, Micronesia, Nepal, Nigeria, Norway, Oman, Philippines, Papua New Guinea, Republic of Korea, Russian Federation, Serbia, Spain, Slovenia, Sri Lanka, Solomon Island, Thailand, Togo, Tunisia, Tuvalu, UK, USA, Vietnam, Zambia., and UN organizations, namely UNCRD, UNEP and UNIDO. This International Conference will deliberate on various issues related to innovation and implementation in sustainable waste management and circular economy including policy, design strategies & targets, solid & liquid waste segregation, collection, transportation, treatment technologies, life cycle analysis, climate change, circular economy, resource efficiency, wastewater treatment, fecal sludge management, research, business opportunities and many others.

IconSWM-CE has a significant growth through the ISWMAW and took the shape of an international movement with the active participation of more than 60 countries through last one decade with the leadership of Prof Sadhan K Ghosh and his national and international network in more than 50 countries. We salute Prof Ghosh for his leadership and contribution in the international scenario for promoting waste management as business model and social commitments, 3Rs, Circular Economy and SDGs.

We welcome you all in the 11th IconSWM-CE 2021 & IPLA Global Forum 2021 conference.

DAY 1, 01.12.2021, Wednesday; The joining platform will be opened at 9.30 am Indian Standard Time on all days.

Date & Time	Hall 1 [Click to Join]	
Dec 01; 10.00 – 12.00 IST	10.00 – 12.00 IST Inaugural Ceremony in Hall 1	
	10.00 am Introduction by Dr Kaniska Sarkar and Dr. Sutripta Sarkar	
	10.09am	Proposing Prof. Sadhan Kumar Ghosh, Chairman, IconSWM-CE to preside over the Inaugural Program
	10.10 am	Welcome address: C R C Mohanty, Coordinator of Environment Programme, UNCRD/DSDG-UN DESA, Japan & Co-chair, IconSWM-CE
	10.15 am	Speech by Prof. P. Agamuthu, Professor, Jeffrey Sachs Center on Sustainable Dev., Sunway University., Malaysia; & Co-Chair, IconSWM-CE,
	10.20am	Speech by Dr. Kare H. Karstensen, Chief Scientist, SINTIF, Norway & Co-Chair, IconSWM-CE,
	10.25 am	Speech by Ms Vaishali Nandan, Project Head, CCP-ME GIZ India, New Delhi, India
	10.30 am	Guest of Honour: Speech by Prof. K. Hemchandra Reddy, Chairman, AP State Council for Higher Education, Vijayawada
	10.35 am	Book: Release of the First comprehensive book in the world on co-processing of wastes.: <i>“Sustainable Management of Waste through Co-processing”</i> by Prof. Sadhan K. Ghosh, Mr. Ulhas V Parlikar and Dr. Kare H. Karstensen published by Springer, in November 2021
		Release by the dignitaries: Proceedings of Abstracts of 11th IconSWM-CE 2021 & IPLA Global Forum 2021
	10.40	Guest of Honour: Speech by Prof. K. Raja Reddy, Vice Chancellor, Sri Venkateswara University, Tirupati, AP and extending Invitation to the 12 th IconSWM-CE & IPLA Global Forum 2022 during November 30 – Dec 02, 2022 (Tentatively)
	10.50 am	Speech By Prof. Chiranjib Bhattacharya, Pro-Vice Chancellor, Jadavpur University, Kolkata, India
	10.55 am	Chief Guest: Inaugural Speech by Mr. Rohit Kumar, Jt. Secretary to Govt of India, MG NREGA, Ministry of Rural Dev., Govt of India.
	11.05 am	IconSWM-CE Awards: Announcement by the secretariat
	11.05 am	➤ Life Time Achievement Awards will be handed over by the Chairman, IconSWM-CE – To be announced & introduced by Prof. M. Nelles, Professor & Chair, Waste Management, Rostock University, Germany; & Co-Chair, IconSWM-CE,
	11.15 am	➤ Awards for Waste Co-processing will be handed over by the Chairman, IconSWM-CE – To be announced by Mr. U. V. Parlikar, Ex-Dy. Head Geocycle India and Global Consultant, & Co-Chair, IconSWM-CE,
	11.30 am	➤ Inaugural of Waste Management Project at Synod College, Shillong, Meghalaya supported by ISWMAW-IconSWM-CE.
	11.40 am	➤ Speech by Dr. Vladimir Maryev, EIPI, Ministry of I &T, Russian Federation (tbc)
	11.45 am	Prof. Michael Koech, Kenyatta Univ, Kenya
	11.50 am	Presidential Address by Prof. Sadhan Kumar Ghosh, JU
	12.00 pm	Vote of Thanks by Prof. Sunil Herat, Griffith Univ., Australia

Dec 01, 12.30- 14.30 IST	Dec 01, 12.30-14.30 IST Hall 1 [Click to Join]				
	Keynote Session 1				
Each speech for 20 minutes	<i>Chair: Agamuthu P, Malaysia, Co-Chair: Arne M. Ragossnig, Brazil</i>				
	Prof. Sunil Herat, Australia, GLOBAL PERSPECTIVE OF WASTE MANAGEMENT: AUSTRALIAN EXPERIENCE				
	Prof. Chiranjib Bhattacharya, Kolkata, India, Valorization for sustainable waste management				
	Prof. Sadhan Kumar Ghosh, India, Initiatives & Challenges in the countries in the Asia and the Pacific to achieve Resource Efficiency				
	Prof. ISHIGAKI Tomonori, Principal Senior Researcher; National Institute for Environmental Studies, Japan; - Japan, Disposal site to Isolation site: to achieve safe circular economy without hazardous substances				
	Dr. Kare H Karstensen, Norway, Ocean plastic turned into an opportunity in circular economy - OPTOCE				
Chair Summary & closure of session					
Dec 01, 15.15 – 17.15 IST	Hall 1 [Click to Join]	Hall 2 [Click to Join]	15.15 – 17.15 IST	Hall 3 [Click to Join]	Hall 4 [Click to Join]
	Plenary Session 1- Asia & the Pacific	Special Session 1: Tunisia 1		Technical Session 1- WM Policy	Technical Session 2 – Health Care Waste Management (HCWM)
	Chair: Michael Nelles, Germany Co-Chair: C R C Mohanty, Japan	Chair: Dr. Aida Ben Hassen Trabelsi, CRTEn, Tunisia, Co-Chair: Kaouther ZAAFOURI, Tunisia		Chair: Dr. Premakumara, Japan Co-Chair: Mr. Arisman, Indonesia	Chair: Dr. C L Venkata Rao, Vijayawada, India Co-Chair: Prof. M Srimurali, SVU, Tirupati, India
1	Seung-Whee RHEE, Kyonggi University, Rep. of Korea; Recycling Cluster Plan for Sustainable Plastic Waste Management towards a Circular Economy in Korea (Republic of)	Gmar BENSIDHOM, Tunisia AB_230: Date palm waste as source of green biofuels and biochars		Liana Kartvelishvili, L. kurdashvili, Georgia AB_141 : Environmental Protection and Ecotourism Management in Georgia	Goday Swapna, India: AB_43: COVID-19: Bio-Medical Waste Management
2	Rao Divi, Visakhapatnam, India Industrial Waste Management – Pre / Post generation	Khoulood Haddad, Tunisia AB_231: Biochar from agro-food industrial waste: agro-environmental characterization and application		PN Ojha, P. Kaura , B N Mohapatra, India FP_105 : C&D waste management and Circularity - Policy framework and R&D integration in India.	Nitika Thakur, V Tyagi, India: AB_48: Reframing policy and strategic Development goals for the post Covid 19 scenario
3	Zhe Liu, China AB_245: Circular economic development in China and its connection with the world	Marwa Ben Saad, Tunisia AB_232: Wastewater Treatment Using Ecofriendly Bio-Based Products for Sustainable Environment		Oluwadare Joshua OYEBODE, Nigeria AB_65 : integration of policies, sdgs and collaborative research for circular economy and resource efficiency in African continent	Rohit Das, S Banerjee, R Das, A K Rout, India: AB_49: COVID-19 Waste Management
4	Nguyen Trung Thang, Duong Thi Phuong Anh, Nguyen Thi Thu Ha, Nguyen Thi Ngoc Anh, Vietnam; AB_288: Sharing Economy Business models in waste management in Vietnam	Asma Ben Abdallah, A. B. H. Trabelsi, D. Mihoubi. Tunisia; AB_233: Biomass pyrolysis process: The impact of technological developments and operating parameters on different output products —Review		Ms. Sayaka Ono, Thailand AB_129: 3R, Circular Economy, Resource Recovery & Efficiency, Plastic Waste, Analytical Framework, Japan	Piku Sen, S Prabhat, A Debsarkar, S N Chakraborty, India: AB_55: The Inherent Challenges of Treatment and Disposal of Biomedical Waste: Aftermath of COVID 19, an Indian Perspective
5	Maira Kussainova, Almaty, Kazakh National Agrarian Research University, Kazakhstan AB_287: Agriculture and reduction of greenhouse gas emissions on the example of the Almaty region of Kazakhstan	Essia Smida, K. Zaafour, A. B. H. Trabelsi. Tunisia AB_234: Pre-treatment methods of lignocellulosic biomass for bioethanol 2G production		Moumita Sarkar, S. Mitra, S. Mallick, Krishna. M. Agrawal, India AB_51: Leveraging intellectual property rights to encourage sustainable waste management and circular economy practices	Oluwadare Joshua OYEBODE, Nigeria: AB_68: Medical Waste Management Practices In South Western Nigeria: Impacts, Challenges And Mitigation Strategies

Dec 01; 15.15- 17.15	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	Hall 4 [Click to Join]
6		Hassène Zemni, R. khiari, M. Lamine, S. Chenenaoul, A. B. Salem, Tunisia. AB_235: Wine grape marc valorization: From waste to valuable polyphenols source	Ashok G. Matani, India AB_84: Managing green smart cities by optimizing plastics wastage as resource inventory in Indian construction industries	Sukhvinder Kaur, India : AB_160: Strain On The Indian Biomedical Waste System: Time To Pay Attention
7	Yong-Chul Jang , Chungnam National university, Daejeon, Republic of Korea; Waste Management and Resource Efficiency towards a Circular Economy in Korea (Republic of)".	Aida Selmi, Ahmed Snoussi, Nabih Bouzouita, Tunisia AB_275: Development of a biodegradable Film from Tunisian Red alga Gymnogongrus griffithsiae	Liju Mathew, S. Manuja, V. Nandan, India AB_108: Push and Pull along circular economy to reduce marine litter- A case study	ADHISREE SHARMA, India AB_57: In Silico Analysis of the marine litter Three Whole Genome Sequences of Sars Cov 2 Available to the General Public
8	Sunil Herat Australia FP_4 : Circular Economy Approach to Manage E-waste in Asia Pacific Region	Chagtni Raouia, Ben Hssan Travbelsi, et al, Tunisia AB_276: Development of a biodegradable Impact of Pretreatment method on Tannery fleshing waste pyrolysis	Alok Ranjan, S. Manuja, V. Nandan, India. AB_109: Review of Uttar Pradesh State Solid Waste Management Policy	Touseef Ahamad, A. Veerendra, K. A. H, Ali, India; AB_124: Modelling and analysis of beach cleaning machine
9	QA & Discussion Chair Summary & closure of session	Maouli Assia, Ben Hassen Trabelsi Aida, Chagtni Raouia, Tunisia AB_277: Biochar produced from agroforestry wastes: a new paradigm for sustainable agriculture	Deepalakshmi B, Gowsalya K, Poornima J, M. Elumalai, India. AB_142: Solid Waste Management (SWM) in India and their resolving Strategies	K. Swapnavahini, S K Matha,, AP, India; AB_302: Pros And Cons Of Covid-19 On Environment
10		Mabrouka Ben HASSINE, Ben Hassen Trabelsi Aida, Amina Marbrouk EL Asmi, Tunisia; AB_278: Waste management in Tunisia: a review for forthcoming plastics waste energetic fallouts and environmental solutions	QA & Discussion Chair Summary & closure of session	Durgesh Kurmi, , Indore, India; AB_312: Impact of Urban Sprawl on Public Health: An Analysis of Bhopal City
		Fatma Bhiri, Samira Abidi, Amir Bouallegue, Gmar Bensidhom, Fatma Kallel, Semia Ellouz-Chaabouni, Aida Ben Hassen Trabelsi, Tunisia; AB_281: Valorization of banana, orange and pomegranate residues: Recovery and evaluation of cellulose microfibers		Shristhi Rawat ¹ , Saswata Goswam, Mohali, India; AB_72: Covid-19 pandemic waste management: challenges and strategies
		Mohamed Hechmi Aissaoui, Aida Ben Hassen Trabelsi, Tunisia AB_240: Olive oil industry waste Valorisation for biofuels and biochar production		QA & Discussion Chair Summary & closure of session
		QA & Discussion Chair Summary & closure of session		

Dec 01, 18.15 - 20.15 IST	18.15 - 20.15 IST			
	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	Hall 4 [Click to Join]
	Plenary Session 2- European & East Europe	Plenary Session 3- US, Latin America & African Countries	Technical Session 3- Wastewater - 1	Technical session – 4 SWM-I
	Chair: Sadhan Kumar Ghosh, India Co-Chair: Francesco Di Maria, Italy	Chair: Prof. S. V. Satyanarayana, JNTUA, AP, India Co-Chair: Prof. Aniruddha Mukhopadhyay, CU, India	Chair: Gopinath Halder, Durgapur, NITD, Kolkata Co-Chair: Sanjib Moullick, KIIT, Bhubaneswar, Odisha	Chair: Prof. G. Morscheck, Rostock, Germany Co-Chair: Dr Nilay Borah, Assam Agricultural University, Jorhat, India
1	Michael Nelles, G. Morscheck, S. Narra, Germany AB_249; Organic Waste and Residues in Germany – The Role in the Energy System, Bioeconomy and Climate Protection	Gabriela Munoz-Melendez, Mexico AB_190: Status of the adoption and practice of Circular Economy in Mexico	S. Kanmani, India AB_208: Application of Advanced Oxidation Process in the treatment of Textile Wastewater	Bhawana Raj, U. K. Singh, India AB_12: Current trends of Solid Waste Management in India: A Review
2	Francesco Di Maria, Italy FP_161: Impact of waste incineration on the environment and on human health. A focus on the oxidative potential of particulate matter	Ronald L. Mersky, USA AB_182: Addressing the Nuisance Aspects of Municipal Solid Waste Management	Subhashish Dey, India AB_10: Recycling of Mango leaves biosorbents for removal of iron and phosphorous from contaminated water	Ruma Bhatt, S. Panda, India AB_30: The impact of Socioeconomic and Land use factors on assessment of solid waste generation
3	N.Buachidze, N.Dzebisashvili, G.Berechikidze, Georgia, FP_13: Evaluation of the Results of Chemical and Microbiological Analysis of Soil and Water of Territory of Some Official and Illegal Landfills in Georgia	Tapas K. Das, USA AB_166: Life Cycle Assessment as Applied to Water Reclamation and Reuse: Cradle-to-Cradle	Sreeparna Das, S. Pal, A. Mukherjee, S. Chakraborty, S. K. Mukhopadhyay, India AB_11: Efficacy of operational units of Common Effluent Treatment Plant for amelioration and safe disposal of tannery wastewater at East Kolkata Wetlands	Nilesh Agarchand Patil India: AB_39: Sustainability Issues in PPP based Municipal Solid Waste Management Projects: Lessons from the Indian Experience
4	Dr. Farkas Hilda, Embassy of Hungary in India Hungarian research potential in waste management"	Michael K. Koech, . K. J. Munene, Kenya. AB_195: Agricultural and Agri-Industry Wastes and Vegetable Wastes Management in Nairobi, Kenya	Divakar Pamanji, P. S. Sagar, D Datta, India AB_24: Optimization of Coagulation in the Removal of Phosphates by Using Response Surface Methodology (RSM)	Mr.Vignesh S, Sathyamangalam, Keerthana C, Soundarya P, India. AB_209: Vegetable Waste Management In Greenhouses By Forecasting The Market Demand And Mapping The Production Capacity Of Greenhouses Using GIS
5	Piotr Barczak, Belgium; Circular Economy legislation in the EU	Aida Ben Hassen Trabelsi, Tunisia; AB_243: Energy and Material Recovery from Waste in Tunisia: Opportunities for the implementation of Circular Economy Concepts	P. Suvarnalatha Devi, M.R. Devi, M. N. Devamma, India AB_42: Biodegradation of Azodye effluents by Microbial consortia and its reuse for sustainable development	S K Ghosh, Upong PACHIANG, Wanchi Mawplang, J Swer, DC & Basin Office, Shilling, Meghalaya Waste Management & Cleanliness in Moolamyliang Village, Shilling
6	Liana Kartvelishvili, Lashari Kurdashvili, Georgia, AB_256: Consideration climate change in the protection of the environment in Georgia	Gamta Sagni1, Girmaye Kenasa1 and Mulissa Jida, Ethiopia; AB_298: Evaluation of biogas production potential of coffee husk supplemented with poultry manure or cow dung	Ranjana Das, C. Bhattacharjee, India AB_75: Waste Water Treatment & Water Resources Circulation	Mini Mathew, G M Abraham, India: AB_137: Utilization of Chicken Waste for Sludge Composting

Dec 01, 18.15- 20.15	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	Hall 4 [Click to Join]
7	Maka Jishkariani, Georgia: FP_120: Assessment of Global Warming Potential of Perspective HPPs in Georgia	D.O. Olukanni, D.O. Iyola, F.A. Adedgemi, E. O. Fagbenle, Nigeria; AB_201: Biogas Recovery from Anaerobic Digestion of Palm oil Processing Sludge in Nigeria	Sudhanya Karmakar, A. Bhowal, P. Das, India AB_77: Process Intensification in Reduction of Hexavalent Chromium from Wastewater in Rotating Packed Bed	Ambrish Dwivedi, N Solanki , D Dohare, India: AB_167: Biological Decomposition of Organic Material into Biologically Stable Compound by In-Vessel Composting: A Review.
8	DR. Smarajit Roy, CWBS, UK Secrets of Making Oxygen from Air	QA & Discussion Chair Summary & closure of session	Abhra Sarkar, India AB_73: Ionic Liquids and Deep Eutectic Solvents in Waste Water Treatment & Water Resources Circulation	Sapna Yadav, P Kumar, India: AB_111: Impact of Stock Density of Earthworm (Eisenia fetida) and Neem (Azadirachta indica) leaves on Vermicomposting of Rice Straw
9	QA & Discussion Chair Summary & closure of session		Priyanka kale, J S Sudarsan, India AB_116: Engineered Wetland Technique in tertiary treatment of waste-water in implementing circular economy to achieve sustainability	Chaitali Bose, Imana Pal, India: AB_70: Production of Bio-plastic from Food Wastage can be a Stepping Stone to Achieve Global Sustainable Development: A Review
10			Debashree Konar Chowdhury & Shilpa Ahmed, Murshidabad, India AB_62: Methodology Of Environmental Audit In An Educational Institution	Nilofer Nisha S, Niyasdeen K, dharnidharan M, Amaran V., Kirubakaran V., Tunisia; AB_274: Auto Gasification of Jatropha Cuscas seed for the performance enhancement of Downdraft gasifier1
11				A. S. Y. P. Ranasingha, A. K. Karunarathna, Warshi. Danderiya, M. S. Nijamudeen, Sri Lanka. AB_212: Assessment of Agricultural Waste Compost for Quality Compliance
11			QA & Discussion Chair Summary & closure of session	QA & Discussion Chair Summary & closure of session

Day 2; 02.12.2021, Thursday

Date & Time	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	Hall 4 [Click to Join]
Dec 02, 10.00 – 12.00 IST	10.00 – 12.00 IST			
	Special Session 2 – Waste Management in Asian Countries	Technical Session 5- SWM -2	Technical Session 6 - Plastics Waste Management	Special session 3 – Waste Management in Small Island country
	<i>Chair: Prof. A. V. S. Swamy, ANU, India Co-Chair: Dr. P. Brahmaji, ANU, India</i>	<i>Chair: Ms Vaishali Nandan, Project head, GIZ, India Co-Chair: Mr. Sourabh Manuja, Technical Expert, GIZ</i>	<i>Chair: Kaniska Sarkar, Kolkata, India Co-Chair: Rahul Baidya, Kolkata, India</i>	<i>Chair: Prof. Sunil Herat, Australia Co-Chair: Prof. Sadhan K Ghosh, India</i>
1	Md. Moshir Rahman, Tahmida Jakia, Dhaka, Bangladesh; AB_229: Environmental Friendly Fish Production and Wastewater Management in Urban and Peri-urban Areas of Bangladesh: Prospect and Challenges	Nitale M'Balikine Krou, G Baba, Togo: AB_115: Design of a mathematical tool for estimating the quantities of urban solid waste: case of Sokodé City (Togo)	Atharv Kapoor, C Varshney, India: AB_134: Microbial Degradation of PET Plastic Sustainably Yielding Commercially Viable Products	Ms. Mayu Nomura, JICA/JPRISM II Expert (SWM training/Monitoring), JICA, Pacific Island Countries Container Deposit Scheme in Pacific Island Countries
2	Nur-E-Jannat Pollen* ¹ , S. M. Moniruzzaman, Khulna, Bangladesh, AB_262: Comparative Assessment of Faecal Sludge Treatment Plants in Bangladesh Using SWOT Analysis	Olubunmi A. Mokuolu, Odunaike A. Kehinde, A S. Aremu, Nigeria: AB_140: The effects of solid wastes on urban flooding: Isale Koko as a case study	S. Menaka Devi, India: AB_162: Polyethylene terephthalate degrading bacteria: Novel approach towards sustainable plastic waste management	Ms Patricia Pedrus, Dy. Asst. Secretary, Federated States of Micronesia; AB_314: Overview of waste management in the Federated States of Micronesia
3	M. V Chary, Hyderabad, India WtE plants in India, success, failure and challenges	Hiba Basheer, Adithya K. R., India. AB_29: Strategies and Effectiveness of Municipal Solid Waste Management in Kannur Corporation, an Analysis	Pradeep Kumar Khandelwal, A Jain, India: AB_89: A New Paradigm to Sustainable Plastic Waste Management in a City	Mr Walter Aukleya, Waste Management Division, NCDC, Papua New Guinea; Solid Waste Management in Papua New Guinea
4	Pradeep Kumar Khandelwal, S. Awasthi, India, AB_88 :Reducing carbon footprint via processing of legacy waste, a case study of Ghazipur Dumpsite, East Delhi	Thenepalli Thriveni, India AB_50: Preliminary Investigation On Carbon Dioxide Sequestration of Municipal Solid Waste Incineration Ash Samples	Thi-Kim Chi Do,, S Herat, L S Hardman, P Kaparaju, Australia: AB_15: Impact Of Banning And Standardising Of Single-Use Plastics In The Fast-Food Industry	Ms Wendy Polo Beti, Solomon Islands; AB_316: Solid Waste Management in Solomon Islands
5	Md. Niamul Bari, Md. Shafiul Islam, Sharmin Sultana, A N Bushra, Rajshahi, Bangladesh AB_264: Rural Solid Wastes Management Practice and Its Governance in Bangladesh	Sinchana N L, Apoorva K S, Mutturaj, P. T. Niranjana, India. FP_79: Municipal Solid Waste Collection System by Route Optimization in Mysuru City	Miho Hayashi, Japan: AB_169: Interpretation of plastic recycling rates and milestone setting in Japan	Mr Ibrahim Shareef Hassan, Manager Project Implementation, Maldives Institute of Technology, Maldives Waste Management Projects in Maldives (TBC)

Dec 02, 10.00 – 12.00 IST	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	Hall 4 [Click to Join]
6	Madhushani M. M. K., Ranasinghe A. S. Y. P., Karunarathna A. K. Sri Lanka, AB_216 : Quantitative Assessment of Microplastics in Municipal and Agricultural Waste Compost	Ashish Sharma, R Mallic, K. Dwivedi, India AB_144: Physical Accessibility Audit of Public Buildings & Spaces: Assessment of Smart City Gwalior in Madhya Pradesh	Anjana, S Goswami, India: AB_56: Effective management of: A positive approach towards natural environment	Walter Kaua (tbc), Department of Environment, Tuvalu Topic: (TBC)
7	Himanshu Kumar, A Yadav, V Tiwari, India: AB_196: Technologies for chemical recycling of household Plastic	Shetty Sai Dinesh, India: AB_106: MSW, E-Waste, HAZW, Bio-Medical Waste, CDW, Bio-Mass & Agri Waste, ELV	Dinh-Trinh Tran, Q Le, M Nguyen, T Nguyen, Vietnam; AB_150: Study on characteristics of plastic wastes and microplastics at dumpsites/landfills in the North of Vietnam	Ms Nafiza Ali, Acting Senior Assistant Health Inspector, Nadi Town Council, Fiji Topic: (TBC)
8	Alex Calma Laguisma Advtech, Philippines AB_8: TINDERMACH™ Solid and Hazardous Waste Pyrolytic Gasification Technology	Archana Purohit, Mohini Jadon, Indore, India ; AB_311: A Study of vehicle tracking and monitoring system in solid waste management in Indore city	Mohd. Amir, N Bano, M R Zaheer Roohi, India: AB_3: Statistical optimization & partial purification of extracellular PHB depolymerase from a novel bacterial strain Enterobacter cloacae MN080434 for the degradation of PHB based biodegradable plastics	QA & Discussion Chair Summary & closure of session
9	Sutripta Sarkar1, S. K Ghosh, India AB_159: Food waste, Food Security and Sustainability: A Global and Indian Perspective	Prof. Merval El Hoz, EIKoura, Lebanon AB_315: The circular economy of plastic packaging: current practices and environmental impact of the PP mechanical recycling plant in Lebanon.	QA & Discussion Chair Summary & closure of session	
10	Md. Arif Hossen, S. M. R Islam, Md. N. Akhlak, Mst. Farzana R Zuthi, Chattogram, Bangladesh; AB_318: Environmental Impact Assessment of Anondobazar Landfill Site of Chattogram City	Oluwadare Joshua OYEBODE, Nigeria: AB_66: assessment of current status of waste management in nigeria: best practices and implementation strategies		
	QA & Discussion Chair Summary & closure of session	QA & Discussion Chair Summary & closure of session		

Dec 02, 12.30- 14.30 IST	12.30 - 14.30 IST			
	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	Hall 4 [Click to Join]
	Special Session – 4 Philippines	Special Session- 5 : Waste Management Towards a more Resource Efficiency & CE in Vietnam	Technical Session 7- Energy - 1	Technical Session 8- Wastewater
	Chair: Dr. Arturo Mariano I. Figueroa, Philippines Co-Chair: Dr. Aries O. Ativo, Philippines	Chair: Asso. Prof. Nguyen Dinh Tho Co-Chair: Prof Sadhan Kumar Ghosh Facilitator: Dr. Nguyen Trung Thang	Chair: : Prof. Kassahun Tesfaye, DG, EBI, Ministry of Innovation and Technology, Ethiopia Co-Chair: Prof. Mulisa Jida; Director of Env. Biotechnology Research Directorate, Ethiopia	Chair: : Prof. Somnath Mukherjee, CE Dept., JU Co-Chair: Dr. Atya Kapley, NEERI, Nagpur, India
1	Opening Remarks: Dr. Alberto N. Naperi	Opening speech by ISPONRE Director Ass Prof Nguyen Dinh Tho- 5 minutes Introductory Speech by ISWMAW President, Prof Sadhan Kumar Ghosh- 5 minutes	Thomas Schliermann, A Herrmann, I Hartmann, W Wiest, J Ho, F Köster, G Zimmermann, Germany:AB_175: Thermo-chemical conversion of ash-rich agricultural residues in a gasifier CHP	N. Muniakshmi, Tirupati, India, AB_307: Performance Evaluation of Wastewater Treatment Plant at Tirumala
2	Arturo Mariano I. Figueroa, City of San Fernando, Philippines; AB_87: An Elementary Method for Low Process Heat Recovery from Organic Waste Co-processing as a Complement to Circular Economy	Dinh Quang Hung, Huynh Trung Hai, Nguyen Duc Quang, Vietnam AB_147: Assessment of Impacts from Extended Producer Responsibility system to the Recyclable Waste Flow: case of plastic packaging in Vietnam	Jayalakshmi S J, J E Philip, P. Venugopal, A P Tom, India: AB_52: Wastewater for renewable energy production-prospective of biohydrogen production: a review	K.K. Sivakumar, S. Kumar, India; AB_126: Adsorption of Phenol and Chromium (VI) Pollutants in Wastewater using Graphite
3	Arthur B. Estrella, Aries O. Ativo, Philippines; AB_222: A review of climatic trends and slow onset events associated with climate change: impacts to agriculture In the BICOL Region, Philippines	Van Dinh Son Tho, Vietnam; AB:148: Converting municipal solid waste into solid fuel by hydrothermal process-10 mins	E. Parameswari, K. Blessy monica, V. Davamani, S.Paul Sebastian, P.Kalaiselvi, M.Maheswari, India: AB_78: Hydro Thermal Carbonization (Htc) Of Sewage Sludge And Its Energy Potential	Sumanth Kumar Matha, K. Swapnavahini, M S. Kumari, P. Lokesh Kumar, AP, India; AB_303: Socio-Economic Impact Of Tribes On Water Quality, Sanitation And Hygiene – A Case Study Of Srikakulam District, AP, India
4	Aileen Mae B. Bufete, Jennifer M. Eboña, Philippines; AB_223: Utilization of Single-use Plastic Wastes in the Fabrication of Concrete Hollow Blocks	Mai The Toan, L. V. Manh, Vietnam AB_146: Circular Economy policies and legislation Framework in Viet Nam	VALMIKI RANGACHAR SREENIVASA, India: AB_80: Waste To Wealth	Rahul S. Sutar, India AB_81: Modelling Approaches for Wetlands: A Review
5	Arlen A. Ancheta, M N Garcia, M R Virginia C. Garcia, R Castillo, Philippines; AB_220: Plastic Flow Along Manila Bay: Case Study of Barangay BASECO	Tran Hoai Le, Nguyen The Hung, Nguyen Thi Kim Thai, Vietnam; AB_149: Hazardous Waste Management in Vietnam: Current Situation and Orientation in the Future- 10 minutes	Maya Pitskhelauri, Maka Jishkariani, Tbilisi, Georgia; FP_244: Preconditions for Implementing Energy Management Systems in Georgia	Messay Eman * and Mekibib Dawit, Ethiopia; AB_295: Tannery wastewater treatment using two-stage anaerobic sequence batch reactor (ASBR) at mesophilic and thermophilic phase
6	Maria V G. Aguilar, E C. Cabrera, E F. Lineses, J L. Morta, J A R. Rocina, Philippines; AB_193: Social Implications of Plastic Pollution Mitigation Initiatives along Imus River	Tran Dinh Trinh, Quynh-Anh Le2, Minh-Quang Nguyen2, Thi-Ha Nguyen, Vietnam National University, Vietnam; AB_150: Study on characteristics of plastic wastes and microplastics at	Khalilur Rahaman Dewan, S S Boxi, India: AB_114: Production of Biodiesel from Sewage Sludge using Heterogeneous Nano-catalyst	Surya Mol , N V, Ushakumary E R, India AB_155: Pesticide removal using biochar

		dumpsites/landfills in the North of Vietnam-10 minutes		
Dec 02, 12.30-14.30	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	Hall 4 [Click to Join]
7	Racquel C. Layco*, M R Virginia Cobar-Garcia, M N Z. Garcia, Philippines ; AB_221: A Study on the Factors Influencing Disaster Resiliency: Barangay San Vicente, Laur, Nueva Ecija in Context,	Tran Van Son, Thanh Ha Nguyen, Thanh Binh Dong, Vietnam Nat. University, NUCE & ECIPMU, Vietnam ; AB_151: Removal of db71 dye from aqueous solution by chitosan adsorbent obtained from shrimp shell- 10 minutes	Sharang Dev Sharma, A. K. Sharma, V. K. Vijay, P. Kaushal, N. Bhojak. India FP_204: Use of Geospatial Sciences & Multi-Criteria Analysis Methods in Site Selection of Solar PV Stations and Application of Solar Energy in Solid Waste Management - A Review	Prasenjit Ghosh, S. Mukherji, India . AB_91: Biodegradation of fluorene, carbazole, dibenzothiophene and various indigenous PAHs and heterocyclics in petroleum refinery wastewater and development of methods for their identification and quantification along with their degradation intermediates.
8	Catherine DR. Pueyo, Philippines ; AB_227: Biochar from corn waste as a biofilter in a recirculating aquaculture systems (RAS)	Dinh Quang Hung, Huynh Trung Hai, Nguyen Duc Quang, Vietnam ; AB_147 : Assessment of Impact from Non-tariff measures on Recyclable Waste to Vietnam-10 minutes	M. Shiva, India AB_189: Optimization and Techno-Economic Analysis of Standalone Hybrid Systems	N.S.Srinidhi, P. M. Reddy, M. A. Reddy, India . AB_132: Spatial Analysis of the Water Quality in Ameenpur Lake, Hyderabad, Telangana, India: The Biodiversity Heritage Site of India
9	Celerino B. Llesol, Jr., Aries O. Ativo, V. Foronda, Philippines ; AB_252: The Effectiveness of Kawayang Tinik (Bambusa blumeana) for Climate Change Mitigation, Carbon Sequestration and Livelihood Potential in Ocampo, Camarines Sur	Nguyen Trung Thang, D T P Anh, N T N Anh, Vietnam ; AB_XX: Policy and Legislation on Microplastics Pollution in Vietnam	N. Munilakshmi, India ; AB_117: Physical, Chemical characteristics of Residential solid waste and Energy Recovery from combustible solid waste – a case study	Shilpa Bose, Ruchira Mukherjee, Tina Basu, Ranchi & Kolkata, India ; AB_259: Review on the impact of PPCPs (Pharmaceutical and Personal Care Products) on humans and water bodies: Occurrence, Pathways and Treatment processes
10	Lynlei L. Pintor, Arturo Mariano I. Figueroa, Laguna, Philippines ; AB_273: Current Status of E-Waste in the Philippines	QA & Discussion- 15 min	Hudson Samraj A., Mukila M., Nithishram R K., Ramani C D., Kirubakaran V, India AB_292: Conversion of waste cooking oil into producer gas: perspectives and limits	Seema Sukhani, Chanakya HN, CST, IISc, Bngalore, India ; AB_XX: Integrated wastewater management & ecology rehabilitation for tank restoration in urban areas
11	Rochelle C. Sena, Jennifer M. Ebona, Philippines ; AB_328: Design, Construction and Evaluation of Biogas System Utilizing Market Bio-Waste	Chair Summary & closure of session : Asso. Prof Nguyen Dinh Tho - 5 mins	QA & Discussion Chair Summary of session	QA & Discussion Chair Summary of session
12	Concluding Remarks by Prof. Sadhan K Ghosh, Chair, IconSWM-CE, India			
	QA & Discussion Chair Summary of session			

Dec 02, 15.15 – 17.15 IST	Dec 02, Thursday 15.15 – 17.15 IST			
	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	Hall 4 [Click to Join]
	Special Session - 6: OPTOCE - Resource Recovery Options for Non-Recyclable Plastic Wastes (NRPW) in India to Prevent Marine Litter and Microplastics	Special Session- 7 IPLA -a SDG Partnership (IPLA: International Partnership for Expanding Waste Management Services of Local Authorities)	Technical Session 9 - Waste Utilization & Valorisation - 1	Technical session –10 Biomethanation
	<i>Chair:</i> Kare H Karstensen <i>Co-Chair:</i> To be announced by SINTEF	Chair & Facilitator: Mr. Choudhury Rudra Charan Mohanty, Environment Programme Coordinator, United Nations Centre for Regional Development (UNCRD)- DSDG/UN DESA, Japan	<i>Chair:</i> Dhanada Mishra, Hong Kong <i>Co-Chair:</i> Prof. Rajat Chakraborty, JU, India	<i>Chair:</i> Prof. S D Srinivasa Murthy, SVU, Tirupati, India <i>Co-Chair:</i> Dr. H. N. Chanakya, B'lore, India
1	Counsellor, Royal Norwegian Embassy, New Delhi; Opening remarks - Importance of preventing Marine Litter and Programmes funded by the Norwegian Government	Opening Remarks: Prof. Sadhan K Ghosh, Chairman, IconSWM-CE, President, ISWMAW (3 mins)	Anjali T.B, A. K. B, M.P. K A M, India: AB_33: Effect of Sawdust Biochar Supplement on Seed Germination and Growth Parameters of Uma Rice Variety	Amit Kumar Sharma, S D Sharma, V K Vijay, P Kaushal, R K Dwivedi, B Modhera, India :AB_157: A Review of Significant Progress in Solar-Assisted Anaerobic Digesters for Improved Biogas Production
2	Mr. Karan Mangotra, Programme Coordinator, UNEP; Status update on India- Norway Marine Pollution Initiative	Speakers each 12 minutes Dr. Atsushi Terazono , Sr. Principal Researcher, Material Cycles Divn, National Institute for Env. Studies (NIES), Japan Title: Circular economic utilization of WEEE and emerging battery issues.	Sruthi Lingampalli, D K Behara, India: AB_37: Corrosion inhibition studies of low carbon steel using some selected plants in acidic and neutral mediums	Bidisha Maitra Sen, India: AB_18: Fish waste management strategies: Bioremediation and Biconversion alternatives
3	Dr. Kåre Helge Karstensen, Chief Scientist-SINTEF and Programme Manager, OPTOCE; Ocean Plastic Turned into an Opportunity in Circular Economy (OPTOCE) Project	Mr. Tetsuo Tsuyuguchi , President & CEO, J&T Recycling Corporation, Japan Plastic Horizontal Recycling & Localized Circular Economy with Food Recycling	Nidhi Shukla, India: AB_40: Sustainable development of green composites: An overview	D.O. Olukanni, B.O. Iyengunmwena, R.O. Amoo, E.O. Fagbenle, Nigeria AB_200: Recovery of Biogas from Food Waste: A Case study of a University cafeteria
4	Current status on PW generation and management; targets, plans and programmes to prevent Marine Litter (tbc)	Dr. Christine Lian Ho , Deputy Secretary General, Global Forum on Human Settlements (GFHS), PR China Advancing towards zero waste cities	K. Görsch, K. Naumann, Germany : AB_54: Advanced methane from biogenic wastes and residues as well as green hydrogen – Pilot-SBG	Jyothilakshmi R, S Patil, H Kumar K, S Jayakumar, S K Ghosh, India; F_158: Design, Development and Experimentation of a solar heated biogas plant with increased gas yield and rate of biogas production
5	Zigma, Status of Zigma's landfill mining projects in India and future plans	Dr. Anupam Khajuria, Researcher, UNCRD- DSDG/UN DESA, Japan Role of Circular Economy and Industry 4.0 towards Achieving the SDGs	Vicky Shettigondahalli Ekanthalu, M. M. Narra, S. Narra, E. Antwi, M. Nelles, Germany. AB_53: A review on organic waste management strategy in Kerala	Nitin Maharjan, SI Bista, A Ghimire, Nepal AB_127: Modeling of Mesophilic Anaerobic Digestion of Food Waste using Anaerobic Digestion Model no. 1 in AQUASIM
6	Mr. Gautam Mehra/ Dr. Rachna Arora/ Ashish Chaturvedi, GIZ India- TBD; GIZ India's projects on Plastic waste management and preventing Marine Litter	Panel Discussion : (60 mins) [Please refer to page 38 for Panel Discussion questions] Dr. René Van Berkel , UNIDO Representative, Regional Office in India	Subir Ray, Amit Mazumder, India: AB_92: Recycling used tea leaves	Indraneel Sengupta, P. K. Dhal, India AB_125: Effect of Phosphogypsum on soil fertility and its aerobic biotransformation through indigenous microorganisms-based technology

Dec 02,	Dec 02, Thursday 15.15 – 17.15 IST			
15.15-17.15	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	Hall 4 [Click to Join]
7	Ms Moumita Chakraborty, Head- Geocycle Asia, Holcim; Holcim India's status on co-processing on NRPW and future plans/ projects to address Marine litter	Dr. Christine Lian Ho, Deputy Secretary General, Global Forum on Human Settlements (GFHS), PR China Dr. Trung Thang Nguyen, DDG, ISPONRE, Ministry of Natural Resources and Environment (MONRE), Vietnam	Simimol Ansera, A Sudhakaran, A Ravindranath, India: AB_103: Processing of natural lignocellulosic coir fibers for enhancing fire retardancy using Banana Pseudostem Sap	Aakash Khadka, A Parajuli, B Thapa, S Dangol, L Sapkota, A Ghimire, Nepal . AB_136: Performance of Two-Stage Semi-Continuous Mesophilic Anaerobic Digestion of Food Waste
8	Mr. K V Reddy, VP, & Corporate Head Env., Ultratech Cement; Ultratech's status on co-processing on NRPW and future plans/ projects to address Marine litter	Mr. Michikazu Kojima, Chief Senior Researcher, Institute of Developing Economies-JETRO, Japan and Research Fellow, Economic Research Institute for ASEAN and East Asia, Indonesia	Sadhan Kumar Ghosh, Abhishek Kumar, Kolkata, India; AB_255: Natural Fiber reinforced composite using woven fiber materials – A potential business model	Kiran Khandare, S. Goswami, India AB_59: Supercritical carbon dioxide extraction of bioactive compounds from Spirulina platensis: A 3R study
9	Mr. Ashwani Pahuja, Head- SD & ED, Dalmia (Bharat) Cement Ltd.; Dalmia Cement's status on Co-processing Nonrecyclable Plastic Waste (NRPW) & future plans to achieve 100% fossil fuels substitution by 2035	Mr. K.D. Bhardwaj, Regional Director and Head, International Services, National Productivity Council, India Prof. Dr. Agamuthu Pariatamby, FASc (Malaysia), Professor, Jeffrey Sachs Center on Sustainable Development, Sunway University	Juri Chetiaa, Nirmali Gogoia, Debendra Chandra Baruah, Assam, India AB_247: An approach to assess the physicochemical properties of biochars produced conventionally from tea pruning litters and mixed wood chips	P. Kalaiselvi, K. Kabilan, D. Kasthuri, S. Paul Sebastian and E. Parameswari, India AB_5: Comparative study on different combinations of complex organic wastes to increase their biomethanation potential to yield maximum biogas
10	Discussion –Coordinated by Ms Anneli Alatalo Paulsen, Research Manager- SINTEF; Major sources of NRPW & hotspots in India? Potential of utilising NRPW through various resource recovery options? Regulatory challenges? Way forward to improve NRPW management in India?	Dr. Kulwant Singh, CEO, 3R Waste Foundation, India Prof. Anthony SF Chiu, De La Salle University, Philippines Dr. Sunil Herat Associate Professor, Griffith University, Australia Dr. Yasuhiko Hotta, Programme Director, Institute for Global Environmental Strategies (IGES), Japan (tbc)	Ajith Sudhakaran, R. Rajan, A. Ravindranath, India . AB_32: Coir waste as a source of energy: Utilization through pyrolysis and its characterization	QA & Discussion Chair Summary & closure of session
11	Dr. Kåre Helge Karstensen, Chief Scientist- SINTEF and Programme Manager OPTOCE: Way forward and close	Dr. Vladimir Maryev Director, International Centre for the Best Environmental Technologies, the Russian Federation Dr. Prasad Modak, Executive President Env. Mngt Centre LLP and Director Ekonnnect Knowledge Foundation, India	QA & Discussion Chair Summary & closure of session	
		QA & Discussion Chair Summary & closure of session		

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Dec 02, Thursday 18.15 - 20.15 IST	18.15 - 20.15 IST			
	Technical Session 11 - Energy recovery and Biomethenation	Technical Session 12 - Circular Economy & Waste Circulation	Tech. Session 13 - Climate Change Community Commitment	
	<i>Chair: Dr. Amit Ganguly, Durgapur, India Co-Chair: Rahul Baidya, India</i>	<i>Chair: Mr. Ulhas V Parlikar Co-Chair: Mr. Palash Saha, Norway</i>	<i>Chair: P. Agamuthu, Malaysia Co-Chair: Sutripta Sarkar, India</i>	
1	P. Satpathy a*, K. Wunder a, M. Vaske b, S. Steinigeweg, Emden, Germany; AB_250: Enhanced biogas production due to synergistic effects of brown sea weed from the North Sea coast	Anindita Roy Saha ,G Gupta, India: AB_214: Cities as Emerging Centers in a Circular Economy: An Assessment of Indian Cities	Evelyn B. Cajucum, A D. Villavicencio, N B. Supan, Philippines: AB_46: CLIMATE ACTION OF PAMPANGA STATE AGRICULTURAL UNIVERSITY	
2	Aditya, R S Jarial, K. Jarial, India FP_09: Performance of blue oyster mushroom [Hypsizygus ulmarius (Bull.: Fr.) Redhead] on different growing substrates under sub-tropical zone of Himachal Pradesh	P N Begum, P. B Rao, V. K Naik, India; AB_69: The Role of Small Scale Industries in Solid Waste Management in INDIA – An Approach towards Circular Economy	Kudirat O. Adeyemi, F B. Sigalo, H O. Boyo Nigeria: AB_102: Fast Fourier Transform Spectral Technique for Short Period Climatic Temperatures Time Series Decomposition in Port Harcourt City, Nigeria	
3	Indraneel Sengupta, P. K. Dhal, India. AB_25: Effect of Phosphogypsum on soil fertility and its aerobic biotransformation through indigenous microorganisms-based technology	Gianlauro Casoli, Italy The Reliability and Efficacy of Research and Innovation in Plastic Materials: A Complex Systemic Critique in a logic of Circular Economy	Suman Mondal, S Roy, N Modak, India: AB_36: Attitude and Waste Prevention Behaviour: The Mediating Role of Recycling Behaviour	
4	D.P.Weerasooriya, P.G.Rathnasiri ,Renaud Escudie, Michel Torrijos, Sri Lanka & France; AB_236: Investigation of effect of mixing and inhibition towards stability of semi batch dry anaerobic reactor treating manure with straw	Rupashree Mohanty, R K Panigrahi, S Patnaik, India: AB_6: Sprucing up of metallic wastes from industries an amplitude of circular economy	Phongjei Longao Konyak, V. Iralu, T. Moaienla A, India AB_174: Review on Assessment Tools of Ambient Air Quality Monitoring in Nagaland, North-East India	
5	Indraneel Sengupta, P. K. Dhal, India. AB_97: Impact of elevated Phosphogypsum on soil fertility and its aerobic biotransformation through indigenous microorganisms (IMO's) based technology	Rasmi Patnaik, India AB_35: Sustainable Waste Management and Circular Economy: keys to SDG implementation	Deepika Purohit, India: AB_119: A Study on Practices and Knowledge Among Women for Menstrual Waste	
6	D.N.K. Vo, P.Q.A. Nguyen, Vietnam: AB_96: The composition and potential of converting household waste into biogas: A case study in Danang City, Vietnam	Imana Pal, C. Bose, India AB_47: Combating Food Waste for Sustainable Development: from Environmental Burden to Value-added Products	G. Siva Praveena, I. Chaitanya, P.V.V. P Rao, India: AB_199: A Survey On Commitment Of Municipal Sanitation Staff To Duties During Covid- 19 Pandemic – A Case Of Visakhapatnam, India	

Dec 02; 18.15- 20.15	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	
7	Ashok G. Matani India AB_83: Recent developments of drone's applications in renewable energy systems infrastructure optimization towards enhanced energy efficiency	Sumanta Bhattacharya, India AB_181: An analysis on agricultural waste and in what manner it can be used in different sectors to move towards sustainable development	Md. Hidayat Ullah, Mohini Jadon, Indore, India FP_271: Comparing Work Participation Rate Among Slum Dwellers and Non-Slum Dwellers of India	
8	Anjali T, Anand M., India AB_279: Physico-Chemical Characterization and toxicity study of poultry litter biochar,	Kunwar Pala, U Dwivedia, P R Jadhwa, K. K. Panta, India: AB_38: Investigation of concentration and temperature effect on co-pyrolysis of low-density plastic waste and biomass: an experimental study using fixed bed reactor system	QA & Discussion Chair Summary & closure of session	
	QA & Discussion Chair Summary & closure of session	QA & Discussion Chair Summary & closure of session		

Day 3; 03.12.2021, Friday

	[Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	
Dec, 03; Friday 10.00 – 12.00 IST		10.00 – 12.00 IST		
	Special Session 8: Plastic Litter in Sri Lankan Water Environment: A Source of Marine litter-CCET-IGES	Special Session 9 - Asia & the Pacific	Technical Session 14- Waste Valorization & Utilization – 2	
	<i>Chair: Dr. Md. Masumur Rahman, Director General, SACEP Co Chair & Moderator: Dr. Premakumara Jagath Dickella Gamaralalage, Director, IGES/CCET</i>	<i>Chair: Mr. Alope Mookherjee, Kolkata, India Co-Chair: Prof. Pradip Sikdar, Kolkata, India</i>	<i>Chair: Mr. Ulhash V Parlikar, Mumbai, India Co-Chair: To be announced</i>	
1	Dr. Md. Masumur Rahman, Director General, SACEP – Welcoming remarks : 5 mins	Bini.Samal, India. FP_71: A lurking danger in solid waste management: domestic / household hazardous waste	Nidhi Chhabra, S. Verma, India, AB_210: Comprehensive analysis of Mechanical Biological Treatment rejected fraction	
2	Prof. Prof. Sadhan Kumar Ghosh, ISWMAW – Introduction – Marine (macro and micro) Plastic Litter in South Asia : 5 mins	Abhishek Kumar Awasthi, Nanjing , China AB_228:Solving the E-waste Issue in Asia region: Challenges and Prospects	L. P. S. K. Fernando, A. M. Y. W. Alahakoon, A. K. Karunaratna, Sri Lanka, AB_218 : Hydrothermal Co-pyrolysis of Food and Fish Waste for Nutrient Recovery	
3	Amila Abeynayaka, CCET-IGES, Japan – AB_282: National Action Plan on Plastic Waste Management and Marine Litter in Sri Lanka: 15 mins	Sadhan Kumar Ghosh, Haribashai Swer, Asorphi J. langrai, Wancydora Kharmawphlang, F.B. Chyne, Andrew Umdor, Shillong & Kolkata, India; AB_237: Waste Management in the City in NE hills, Shillong - a case study	Harshdeep Rana, S. Goswami, India. AB_58: agro-industrial horticultural waste valorization: towards a clean & green technology	
4	Dr. Ananda Mallawatantri, IUCN, Sri Lanka; Multiple approaches to address post-consumer plastic waste in Sri Lanka 15 mins	P. Kowlessar, M.A.Z. Bundhoo, Phoenix, Mauritius; AB_261: E-Waste Management in Mauritius: Current Status and Potential for a Circular Economy Approach	Abhishek Rajput, M Singh, P Llinas, B. Breul, Spain. AB_154: Bituminous geomembrane (BGM) used in waste management for environment protection	
5	Dr. Kavinda Gunasekara, Geo Informatics Center, Asian Institute of Technology, Thailand;- AB_285: Microplastic litter monitoring Technology, R&D to scale up solution :15 mins	Debendra C Baruah, P. Dasb, R. Hussainc, India- AB_194: An IT integrated plan for management of municipal solid waste and investigation of its prospect in Tezpur municipality, Sonitpur, Assam	Rahul Chakraborty, M. Roy, K. M Agrawal, India AB_176: Assessment of Reuse & Recycling Potential of Hazardous Wastes in West Bengal - An Approach towards Circular Economy for Waste Management	

Day 03		10.00 – 12.00 IST			
10.00 – 12.00	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]		
6	Dr. Avanthi Igalavithana, University of Peradeniya, Sri Lanka; Microplastic pollution in riverine and coastal water environments of Sri Lanka: X-press pearl Shipwreck and Kelani River Case study - 15 minutes	Khalil Mubarak Al Shekaili, M. A. Syed ,Oman. AB_187: Study on Resource Circulation from Fish oil extracting industry	Messay Emanu Getu, B A Abebe, M Jida Midekssa , G T Araya , E W Amare, G B Fed, Ethiopia; AB_294: Briquette production from sugar cane bagasse and its potential as clean source of energy		
7	Q&A and discussions: 20 minutes	Chandrasena W.J. P., T. N. Rajapaksha, Karunarathna A. K. Sri Lanka, AB 215: Assessment of Food Waste Generation and Management: A case study Kandy	P. O. Sarachchandra, A. M. Y. W. Alahakoon, A. K. Karunarathna, Sri Lanka, AB_217: Phosphorus Enrichment of Waste Biomass Derived Biochar by Co-Pyrolyzing with Rock Phosphate		
8	QA & Discussion Chair Summary & closure of session	Agamuthu Pariatamby, P. S. M. Devadoss, Malaysia. AB_183: Waste Management and Greenhouse Gases	Linee Goswami, S. S. Bhattacharya, Tezpur, India AB_248: Role of earthworm gut micro-biota as potential biofertiliser during vermi-conversion of wastes		
		Sylvia Belleh, Savindi Caldera, Cheryl Desha, Linda Nordin· Robina, Australia,; Food and AB_110: Garden Organics Waste Collection and Planning in Australia: A Systematic Literature Review			
		QA & Discussion Chair Summary & closure of session	QA & Discussion Chair Summary & closure of session		
Dec, 03; Friday 12.30-14.30 IST	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	Hall 4 [Click to Join]	
	Plenary session 4 – Asia & the Pacific	Plenary Session 5- EU and the UK	Technical Session 15- Wastewater - 2	Technical Session 16-Waste Circulation & Energy Recovery	
	Chair: Prof. Debendra Chandra Baruah, Tezpur, India Co-Chair:	Chair: Prof. Sadhan K Ghosh, JU, India Co-Chair: Dr. Premakumara, CCET-IGES, Japan	Chair: Prof. Anurag Mudgal, PDP, India Co-Chair: Dr. Bidisha Sen, CU, Kolkata, India	Chair: Prof. Prasad Kaparaju, GU, Australia Co-Chair: Dr. M. Kirubakaran, Chennai, India	
1	Session Keynote Speech: Harish Hirani, Director, CMERI-CSIR, Durgapur, India AB_301: Decentralized and Integrated Municipal Waste Management'.	Nicolas Humez, France; AB_163: Waste and Chemicals in Circular Economy, The Harsh Trade-offs	Rwiddhi Sarkhel, A. Chatterjee, T. Mandala, India. AB_133: Rice hush ash-derived magnetic particles for wastewater treatment	Bibin Sanjeev L., Kishore M., Prabhakaran A., Sridhar S., Kirubakaran V, India AB_289 Biochar synthesis in the agro farm: a value addition to farming activities	

2	Agamuthu P Jayanthi, Sunway University, Malaysia AB_191: Challenges of Waste Management and Recycling in Asia: The Way Forward	Prasanta Kumar Dey, Aston University, UK; AB_270: Addressing climate change issues. Through adopting circular economy, in small and medium sized enterprises	Sucharita Bhattacharyya, India. AB_139: Smart Natural Technology & Maintenance of Sustainable Aquatic Environment: A Lockdown Study	Birhanu Ayalew Abebe*, M E Getu, M Jida Midekssa , G T Araya , E W Amare, G B Fed, ,Ethiopia; - AB_298: Utilization of Sugar Cane Bagasse Ash as Partial Replacement of Cement in Concrete
3	Chika Aoki- Suzuki, T. Nishiyama, M. Kato, V. Lavtizar, IGES, Japan AB_254: Policies and Practices of sound materials cycle society in Japan- Transition towards circular economy.	Arne M. Ragossnig, ISWA, Austria, AB_197:C&D Waste - Policy instruments and implementation strategies for Resource Efficiency in Austria	Grace Mary Abraham, J. Varghese, R. E. John, R. G. David, S. Mathew, S. Jose, India. FP_145: Effectiveness of Coriander Leaves in The Adsorption of Lead from Aqueous Solutions.	Karthick Krishna S., Veera K G., Subhashree R., Muthu I K A., Kirubakaran V. India:AB_291: Biogas production from poultry and sago waste to achieve a circular economy
4	A Aich1, Ghosh S K, Jadavpur University, India F_225: Bio-mass a Good Source of Hydrogen – Present scenario and future prospects	Hosam E.A.F. Bayoumi Hamuda, Obuda University, Hungary, AB_317: Sustainable Waste Management and Circular Economy in Hungary	Tamas Karches, Hungary AB_180: Reactor arrangement improvement in wastewater treatment applying computational fluid dynamics	Fekadu Shemekite, M Gómez-Brandón, Fl Assefa, Ethiopia: AB_297: Evaluation of compost maturity and stability of the coffee husk using chemical and microbial parameters
5	Maria Liubarskaia, D. Ipatova, Russia; AB_329: The Role of Informational and Professional Support in the Sustainable Development of Waste Management System in Russia	Janek Vahk, Brussels Region, Belgium Rethinking the EU landfill target.	Nandini Saxena, M. P. Rai, India. FP_172: Microalgae Coelastrella sp. KJ04 assisted industrial effluent treatment and improved lipid production: An integrated approach	Bhuvanesh K., Poornimadevi P., Ram N P., Sathyan S., Kirubakaran V. India: AB_290: Slaughterhouse waste management leading towards green operation: Circular economy approach
6	Dezhen Chen, Zhenfei Mei, Shaoheng Ge, Xia Yue, Qing An, Tongji University, Shanghai, China; AB_309: Production of value-added energy products from MSW using MSW-derived char-based catalysts	QA & Discussion Chair Summary & closure of session	Maróti G, Wirth R, Hungary. AB_177: Chlorella vulgaris and its phycosphere in wastewater: Microalgae-bacteria interactions during nutrient removal	Bethelhem Haile Tesema , Ethiopia; AB:300; Preparation of Leather Board from Chrome Shaving Waste and Plant Fibers “A Wealth from Waste Approach”
7	C. L. Venkata Rao, Vijayawada, India AB_303: Innovative approaches for private sector participation in faecal sludge and Septage management in ULBs... A case study of Andhra Pradesh		Hema T. S., R. Majji, S. H Sreeramulu, India. AB_178: Minor irrigation tanks of Merakamudidam Mandal, Vizianagaram, Andhra Pradesh: present ecological status, benefits, threats and management strategies	Mohini Jadon, Archana Purohit, Indore; AB_313: Sustainable solid waste management: An integrated approach of Indore city
8	David Lerpiniere, Director, Resource Futute, UK AB_330: Policy Instrument for Waste Management agenda and the Circular Economy		Anup Pardey, A. Bhowal, P. Das, S. Karmakar, India. AB_82: Adsorption of Fluoride from Aqueous Solution by Activated Charcoal	Uplabdh Tyagi, G. G. Singh, India, AB_179: Advances in the thermochemical route for the effective valorization of lignin: An integrated approach
9	QA & Discussion Chair Summary & closure of session		QA & Discussion Chair Summary & closure of session	Nguyen Duc Quang*, Tran Thi Thuy Huong, Ha Vinh Hung, Huynh Trung Hai, HUST, Hanoi, Vietnam; AB_152: Initial Assessment of Material Flow from End-of-Life Solar Panel in Vietnam and Recommendation for Proper Management of this Waste
				QA & Discussion Chair Summary & closure of session

	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	Hall 4 [Click to Join]
Dec, 03; Friday 15.15 – 17.15 IST	15.15 – 17.15 IST DEC 03, 2021			
	Special Session-10 Coproprocessing in Cement Industries	Special session-11 Sustainable Waste Management and Circular Economy in ASEAN Countries	Technical Session 17- E-waste and ELV	
	Chair: Mr. Ulhas V Parlikar Co-Chair: Dr. Kare H Karstensen	Chair : Asst. Prof. Arisman, Universitas Islam Negeri (UIN), Jakarta	Chair: Prof. Milan Pavlovich, Serbia Co-Chair: Dr. Valdimir Maryev, Russia	
1	To be announced soon	Keynote Speaker: Sadhan Kumar Ghosh Triangular Cooperation in advancing Circular Economy	Abhay Damle, Joint Secretary to the Govt. of India, New Delhi AB_306: Voluntary Vehicle Fleet Modernization Programme	
2		Astryd Viandila Dahlan , Indonesia ; AB_93: Plastic Waste Generation from Household Waste in Upstream and Downstream of Citarum River	Balaji R, Prabhakaran D, Thirumarimurugan M, India . FP_45: Review on practical implications involved in handling e-waste in India	
3		Kanin Laopirun , Thailand ; AB_265: Circular Economy and Plastic Waste Management Experiences in Thailand	Arnab Basu, India . FP_113: Electronic Waste and Extended Producer Responsibility: Implications for Technology Sector	
4		Gendis Ayu Satiti Irawan, Arisman, M.N.R.Ai Arif, O. Mareta, R. K. Jaya., Indonesia ; AB_94: Factors Influencing Small Medium Enterprises (SMEs) to Adopt Sustainable Packaging: Case of Food & Beverage Industry in West Java	Rupinder Aulakh, India . FP_130: Inclusive Stakeholders' Model of E- waste Management: Lessons from Developed Nations for India	
5		Maria Virginia G. Aguilar, Eden C. Cabrera, Edwin F. Lineses, Jacqueline L. Morta, Jose Aims R. Rocina, Phillipines , AB_193: Social Implications of Plastic Pollution Mitigation Initiatives along Imus River: <i>Basis for Policy Framework</i>	Shelly De, D. Dey, India . AB_63: OCCUPATIONAL HEALTH HAZARDS OF WORKERS OF INFORMAL E-WASTE ECONOMY OF KOLKATA	
6		Hoang Hai , Vietnam ; AB_268: Household Consumption, Use and Waste Disposal of Plastics: Da Nang City (Vietnam) case study	Sadhan Kumar Ghosh.,Subir Sardar, India AB_257: Recycling of Lithium-Ion Battery to reduce carbon Emission in the Automobile Industry	
7		Arisman, Indonesia ; AB_90: Household Willingness to Pay for Improved Waste Management in Malang Regency, Indonesia	Sandeepa Bhat B. D. Sengupta, India AB_17: Battery Waste Management: A Rising Concern in West Bengal Battery Waste	

	[Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	
8		Yun Arifatul Fatimah, Indonesia ; AB_269: Circular Economy: How could 6Rs make significant contributions in achieving national sustainability	Jyoti Giri, G. Aryal, R. Gautam, A.Upadhyaya, R. Adhikati, Nepal ; AB_170: Lab Scale Extraction of Expensive Metals (Gold, Copper and Silver) from Discarded Mobile Hand Sets.	
		QA & Discussion Chair Summary & closure of session	QA & Discussion Chair Summary & closure of session	
Dec, 03; Friday 18.15 - 20.15 IST	18.15 - 20.15 IST			
	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	
	Technical Session 18- Energy - 2	Special session 12- WM & CE in African Countries	Technical Session 19- Construction & Demolition Waste Management (CDWM)	
	Chair: Dr. A. Gangagni Rao, CSIR-IICT, India Co-Chair: Dr. Pankaj Kalita, IITG, India	Chair: Prof. Michael K. Koech, Kenya Co-Chair: Prof. David O Olukanni, Nigeria	Chair: Prof. Ronald Mersky, USA Co-Chair: Sannidhya Kumar Ghosh, USA	
1	Sadhan Kumar Ghosh, Dineshkumar M, India . AB_253: Comparative Study of Methane Gas Potential In Anaerobic Digester Using Microalgae As Feed – Low-Cost Energy Recovery Approach From ETP	Bupe G Mwanza, K. W Banda, Zambia . AB_206: Sustainable Development Goals: An Approach to Municipal Solid Waste Management	Sudheer Ponnada, V. Jallu, M. R. Ponnada, India . FP_205: Mechanical performance of silicomanganese slag as coarse aggregate into conventional concrete as partial and full replacement	
2	Nitin Kumara, D D. Gahlota, R Kumarb, R Karmakar, India . AB_135: Compatibility and feasibility of ethanol-gasoline fuel blends in Engine	Kaouther ZAAFOURI, Tunisia AB_242: Waste Management in Tunisia: state of the art and recommendations	Anurag, R. Kumar, India . FP_02: Optimization of clinker factor for low carbon penta-blended cementitious mortar via the Box-Behnken Design of Response Surface Methodology	
3	Jitendra singh pal, C.S. Choudhari, S.N. Sapali, T.R. Anil, India . AB_143: Exergy Analysis of Waste Incineration Plant Used in Marine Vessels	Kachikoti W Banda, B. G Mwanza, E. M Mwananumo, I. N. Banda, Zambia , AB_207: Models Applied In Municipal Solid Waste Management	Prashanth Kumar Sreram, A Thomas, India AB_16: A Review of Literature on Material Waste during Construction: Sources, Barriers, Enablers and the role of Stakeholders	
4	Steffi Formann, T Schliermann, I Hartmann, A Fellner, P Schneider, Germany . AB_168: Combustion of regionally available agricultural residues for energetic use of biomass and coupled production of biogenic silica for particulate matter precipitation processes	Jemo Hunduma, Girmaye Kenasa, Ethiopia ; AB_296: Production of Vermicompost from Fruit Peel Wastes and its Potential in Growth Promotion of Some Vegetables	Pradeep Kumar Khandelwal, India FP_86: Circular Economy - Recycling in Construction & Demolition Waste A Pioneering Initiative by Delhi	
5	Sampad Kumar Das, Sadhan Kumar Ghosh, Kolkata, India ; AB_224: Environmental Impact Analysis of Power Production Using Biomass Pyrolysis And Optimized Non	Elijah K. Biamah, Benjamin Kogo, Philip Langat, Nairobi, Kenya & Australia ; AB_246: Rethinking Municipal Wastewater Treatment And Reuse: Alternative Sewage Management Options	Mainak Ghosal, A. K. Chakraborty, India . AB_101: Mitigating the Unknown - Risks in Construction & Demolition	

	Renewable Resource Depletion Based On Life Cycle Assessment			
Dec 03, 18.15 -	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	
6	Nidhi Chhabra, S verma, India: AB_211: Comprehensive analysis of Mechanical Biological Treatment rejected fraction as a source of RDF	Gamta Sagni, Girmaye Kenasa, Mulissa Jida, Ethiopia; AB_299: Evaluation of biogas production potential of coffee husk supplemented with poultry manure or cow dung	Padma Parija1, J.S.Sudarsan, India. AB_104: Construction and demolition waste management: steps towards circular economy	
7	D.BABU RAJENDRA PRASAD, India: AB_121: Control of Agricultural biofuel fed power generation to enhance continuous supply to greenhouse	QA & Discussion Chair Summary & closure of session	Rajesh Kumar, Roorkee, India AB_1: Experimental investigation on the effect of high-volume low-grade stone slurry on mechanical, seismic resistance and thermal properties of Aircrete	
8	Gayatri Sabat, N Gouda, A K Panda, India: AB_31: Co-pyrolysis of low grade coal with waste plastics: Analysis of oil		R.Gulati, F.Bano, M.Aamir, Lucknow, India; AB_263: An Integrated Review on Construction and Demolition Waste Management in India: Most Recent Developments and Way Forward	
9	Oluwadare Joshua OYEBODE, Nigeria ; AB_67: solid waste management for resource efficiency, energy generation and pollution reduction in a typical Nigerian city		Mainak Ghoshal, Arun Kumar Chakraborty, IEST, India; AB_327: Mitigating the unknown – Risks in Construction and Demolition.	
	QA & Discussion Chair Summary & closure of session		QA & Discussion Chair Summary & closure of session	

Day 4; 04.12.2021, Saturday

Date & Time	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	Hall 4 [Click to Join]
Dec, 04; Saturday 10.00 – 12.00 IST	10.00 – 12.00 IST			
	Technical Session 20- Waste water - 3	Technical Session 21- Industrial Waste	Technical Session 22- Waste Management & allied fields of research	Special Session -13: Petroleum & Petrochemical Industries
	<i>Chair: Dr. Prasanta K Mohapatra, Ch. Engineer, Odisha, India Co-Chair: Dr. Dalia Dasgupta Mandal, NITD,</i>	<i>Chair: Prof. Ranjana Choudhury, JU, India Co-Chair: Prof. Benu Gopal Mohapatra, KIIT, India</i>	<i>Chair: Kulwant Singh, CEO, 3R WASTE Foundation, Gurugram, India Co-Chair: Dr. Teklehaimanot Haileselassie Teklu, Addis Ababa University, Ethiopia</i>	<i>Chair: Mr. Jitendra Prasad Sinha, ED, ERPL, IOCL Co-Chair: BPCL</i>
1	V. Davamani, K. B. Monica, E. Parameswari, R. S. Piriya, M. Maheswari, India . AB_184: Impacts of treated paper mill effluent on soil quality and onion crop productivity	Varsha Agrawal, R. Paulose, R. Arya, S. K Sanghi, D. Mishra, S. T. Salammal, India , AB_26 :Green Conversion of Red Mud into X-Ray shielding Material	Session Keynote : Bhagat Beerachee, Director, SWM Divn., Mauritius AB_XX: Circular Economy in Mauritius	Supriyo Majumder, T. Chiranjeevi, BPCL, India , FP_219: Bharat Furno Chem: A Cleaning Chemical for Heaters and Boilers
2	Knisz, J, Shetty, P, Wirth, R, Maróti, G, Karches, T, Vadkerti, E, Bíró, T. Hungary . AB_185: Effluent quality of small, on-site wastewater treatment systems and the effect of storage.	Sowmyalakshmi.K, Munilakshmi. N. India , FP_118: Decolorization of Acid Dye using Low Cost Organic Adsorbents	SURYA MOL N V, U. KUMARY, SUMA K, India , FP_165: Pesticide Removal Using Biochar - a review	Jagannath Patro & sh. Prashant Mishra, Kolkata, IOCL, India Sludge Management in crude oil storage tanks under IOCL Pipelines Division
3	V. Krishna Naik, A.V.V.S. Swamy, P. N. Begum, India . AB_198: Application of Nanoparticle Technology in the waste Water Treatment from Pharmaceutical Industries	Vani M, U. Maheswari Devi P, India , AB_44 : Synthesis and Characterization of Seagrass based Chitosan Nanoparticles and ANN modelling for the degradation of Reactive azo dyes of Textile effluents	Dipankar Das, P. K. Rout, India AB_85: Synthesis of geopolymer materials by utilizing industrial solid wastes: A review	Krishna Kr Sharma & Saurav Kumar, IOCL, SRPL, Chennai, India Tank bottom sludge- Legal Aspect and effective Disposal
4	Moumita Sharma, A. Bhowal, S. Datta, India . AB_76: Process Intensification in Concentration of fruit juice by Air Stripping in Packed bed under centrifugal field.	M Naga Rajani, D.K. Kumar, V. N. Rao, India , AB_60: Potential use of Parthenium Stem Powder, For Removal Of Pb+2	Amrit Poudel, A. Ghimire, B. Adhikari, Nepal . AB_156: Environmental Implications of Green Technologies Implementation in the Hotels: a case of Touristic city Pokhara, Nepal	Sanjeev Kumar, R. Singh, India , AB_41: Composition, generation and environmental concerns of Petroleum Sludge
5	Sonu, Ritu, G. Deokar, S. kumar, India . AB_19: Spatiotemporal Study of Groundwater Depth and Quality in Western Agro Climatic Zone of Haryana	Mogili Sudhakar, M. Heeralal, India , AB_74: Liquefaction Susceptibility of Reinforced Pond ash	Manali Singh, S. Goswami, India . AB_61: Recent advances improvised techniques of lignin biorefinery, and versatile applications of lignin	Gurmeet Singh, IOCL; Topic: (tbc)
6	Sonu, Ritu, G. Deokar, S. kumar, India . AB_20: Trend Analysis of Groundwater Levels in Rohtak and Sonipat district of Haryana, India	Debosmita Sikdar, I. Kanungo, India , AB_28: Fabrication of enzymes extracted from fungal origin of discarded leather spills: an attempt towards biodegradation and sustainable biocatalysis	T. Sumabala, N. Munilakshmi, India . AB_202: Performance Evaluation of Tirupati Municipal Sewage Treatment Plant at Tukivakam Village	QA & Discussion Chair Summary & closure of session

Dec 04, 10.00 – 12.00 IST	Hall 1 [Click to Join]	Hall 2 [Click to Join]	Hall 3 [Click to Join]	Hall 4 [Click to Join]
7	Messay Eman, Mekibib Dawit, Ethiopia ; AB_293: Two-stage anaerobic sequence batch digestion of composite tannery wastewater	Rahul Arya, V. Agrawal, R. Paulose, A. Pandey, D. Mishra, S. K. Sanghi, Mohd. A. Khan, D. P. Mondal, K. B. Shabi Thankaraj Salammal, India , AB_123: Red Mud Based High Energy Gamma Ray Attenuating Blocks	Prachi Rathi, D.S. Malik, India AB_27: Distribution pattern of zooplankton in relation to water quality characteristics of Tehri reservoir at Garhwal Himalayan region Uttarakhand, India	
8	Sonu, Ritu, G. Deokar, S. kumar, India . AB_21: Analysis of Drivers of trends in depth to water levels in Jhajjar District of Haryana, India	Meenakshi Malhotra, P. Pala, India , AB_164: Selenium Pollution: A review of Occurrence, Health impacts, Challenges in Separation and Recovery	Srishti Saha, T. Mohanty, India . FP_131: Effect of RHA and GGBS as partial replacement of cement in concrete	
9	QA & Discussion Chair Summary & closure of session	Sangeeta Sankhyayani A, R Prasanna P, P. Brahmaji Rao, Guntur, India ; AB_319: A Change in Industrial Energy: Petrochemical Perspective	K. Blessy Monica, E. Parameswari, India AB_138: Hydrothermal Carbonization of Paper Mill ETP Sludge and Its Potential Applications	
		QA & Discussion Chair Summary & closure of session	QA & Discussion Chair Summary & closure of session	
Dec, 04; Saturday	Hall 1 [Click to Join]	12.30- 14.45 IST		Hall 2 [Click to Join]
	Special Session – 14 South Asian Countries		Technical Session 23- Landfill & Legacy Dumpsite	
12.30-14.45 IST	Chair: Dr. Anurudda Karunaratna, University of Peradeniya, Sri Lanka Co-Chair: Dr Renuka Ariyawansa, Waste to Energy Technologies Ltd, Sri Lanka		Chair: Prof. Abdelmalek Dachhour, AVIH, Morocco Co-Chair: Kachikoti W Banda, Zambia/ Dr. Trebse Polonca, Univ of Ljubljana, Slovenia	
1	Prof. Sadhan K Ghosh, India- Special Remarks		P. Revathi Prasanna, S. sankhyayani .A, P.B. Rao , ANU Guntur, India , AB_188: Engineered Landfilling of Hazardous Waste; Current and Future	
2	Mr. Mahinda Werahera, Director, Env. pollution Control and Chemical Mngt., Ministry of Env., Sri Lanka ; AB_323: Plans and initiatives to tackle plastic pollution in Sri Lanka		Shiwashish Singh Swar, A. Ghimire, Nepal , AB_99: Optimization of Coagulation-flocculation Process for Landfill Leachate Treatment using Response Surface Methodology.	
3	Ms. Sarojinie Jayasekara, Director – SWM, Central Env. Authority, Sri Lanka ; Regulatory framework to control plastic pollution in Sri Lanka		Samran Banerjee, A. Dutta, India ; AB_14: Potential resource recovery through bio-mining of legacy waste for South Asian countries	
4	Mr. Nalin Mannapperuma, Director, WM Authority of Western province, Sri Lanka ; Resources recovery from waste: Sri Lankan experiences		N. Dzebisashvili, L. Kvinikadze, E. Tskhakaia, Georgia , FP_98: Preliminary Ecological Study of Leachate of the Municipal Solid Waste Landfill (Georgia, Tbilisi) to Determine the 5Potential of their Purification Using C6arbon Nanomaterials	
5	Mr. Mohamed Hamdhan, Project Coordinator, Ministry of Env., Climate Change and Technology, Maldives ; AB_322: Evolution of Garbage Island – Thilafushi		Pradeep Kumar Khandelwal, S. Awasthi, India , FP_173: Land Reclamation through Processing of Legacy Waste - A Case Study of Ghazipur Dumpsite, East Delhi	
6	Dr Randika Jayasinghe, Senior Lecturer, University of Sri Jayawardanapura, Sri Lanka AB_321: Waste to value addition through Upcycling: The case of Waste for Life Sri Lanka		S. Lavudya, D. B. Naik, P. K. Kumar, S. V. Krishna, S. Golla, V. Himabindu, India . AB_226: Advanced oxidation of landfill leachate: Substitution of Coal Fly Ash (CFA) as a low-cost catalyst in Fenton oxidation	
7	Prasanta Kumar Mohapatra, Asheesh K. Yadav, Sadhan Kumar Ghosh, Odisha & WB, India ; AB_258: Wastewater management in urban areas: A potential Business Model		Pawan Kumar Srikanth, C. Visvanathan, Thailand ; AB_128 : 3R, Circular Economy, Resource Recovery & Efficiency; Secondary Raw Materials and Recycled Products	

	Hall 1 [Click to Join]	Dec 04, 12.30- 14.45 IST	Hall 2 [Click to Join]
8	Mr Yasantha Gunaratne, Manager, Sisili Hanaro Encare Pvt. Ltd. Sri Lanka; Healthcare waste management during Covid-19 pandemic		Mokuolu O. A, Muftaudeen S. T, Aremu A. S., Ilorin University, Nigeria; AB_251: GIS Based-multi criteria spatial modelling approach for landfill site selection in Ilorin Metropolis, Nigeria.
9	Mr Gordon Jackson, Area Waste to Wealth Manager, Soneva, Maldives AB_324: A Holistic Approach to Small Island Waste Management		QA & Discussion; Chair Summary & closure of session
10	T. K. Roy, N. R. Khanam, S. M. Khan, S. Paul, Bangladesh, USA & Canada; Assessment of Solid Waste Management Condition and Facilities in the Major Roads of Khulna City, Bangladesh		
	QA & Discussion ; Chair Summary & closure of session		
15.30 – 17.15 IST : December, 04; Saturday - Hall 1: Valedictory & IconSWM-CE Excellence Award Ceremony			
Hall 1 [Click to Join]			
Dec, 04; Saturday 15.30 – 17.15 IST	15.30 Introduction by Dr Kaniska Sarkar and Dr Sutripta Sarkar		
		To be presided over by, Prof. Sadhan Kumar Ghosh, Chairman, IconSWM-CE & President, ISWMAW.	
	15.35	Welcome address: C R C Mohanty, Coordinator of Environment Programme, UNCRD/DSDG-UN DESA, Japan & Co-chair, IconSWM-CE	
	15.40	Representative from Small Island Countries coordinated by Prof. Sunil Herat, Griffith University, Australia & Co-chair, IconSWM-CE	
	15.45	Speech by Prof. Albert O Naperi, President, Central Bicol State University of Agriculture (CBSUA), Philippines; & Co-chair, IconSWM-CE	
	15.50	Speech by Prof. Samantak Das, Pro-Vice Chancellor, Jadavpur University, India	
	15.55	Dr. Kare H. Karstensen, Chief Scientist, SINTIF, Norway & Co-chair, IconSWM-CE	
	16.00	Speech by Prof. P. Agamuthu, Professor, Jeffrey Sachs Center on Sustainable Dev., Sunway University., Malaysia; & Co-Chair, IconSWM-CE, -	
	16.05	Speech by Ms Vaishali Nandan, Project Head, CCP-ME GIZ India, New Delhi, India	
	16.10	Prof. M. Nelles, Rostock University, Germany; & Co-chair, IconSWM-CE	
	16.15	Prof. Francesco Di Maria, Associate Professor, University of Perugia, Italy & Vice-chair, IconSWM-CE	
	16.20	Dr. Premakumara Jagath Dickella Gamaralalage, Director, CCET- IGES, Japan & Vice-chair, IconSWM-CE	
	16.25	Dr. Anuraddha, University of Peradeniya, Sri Lanka & Vice-chair, IconSWM-CE - Announcement of Awards	
		IconSWM-CE Awards for Paper by the ISWMAW President	
	16.45	Prof. David Olukanni, Covenant Univ, Nigeria & Vice -chair, IconSWM-CE	
	16.50	Prof. S W Rhee, Professor, Kyongee University, Republic of Korea, Co-chair, IconSWM-CE	
16.55	Presidential Address & Chair's Summary: Prof. Prof. Sadhan Kumar Ghosh		
17.10	Vote of Thanks by Dr. Aïda Ben Hassen Trabelsi, Dr.-Ing. Associate Professor at CRTEn, Tunisia,		
17.15	Group Photo		

Panel Discussion Questions for Special Session: IPLA

1. What policy interventions and institutional mechanisms should the cities and municipalities fundamentally consider in short and long run for moving towards a zero-waste society?
2. How can public-private partnership be successfully instituted in municipal governance to take full advantage of the private sector dynamism (finance, technological intervention, expanded services to local communities, job creation, etc.) in turning waste into useful resources?
3. What are the main technological challenges and gaps the local and municipal authorities are facing with in addressing the complexity and diversification of waste streams, mainly new and emerging waste streams such as – e-waste, chemicals and hazardous waste, healthcare waste (e.g., COVID-19), plastics in coastal and marine environment, etc.?
4. How can cities and municipalities benefit through public-private, city-city, industry-industry, country-country (North-South & South-South) cooperation in scaling up of application of sound and locally adaptable waste management technologies as well as building necessary 3Rs (reduce, reuse, recycle) infrastructure?
5. How can the interface between local government, private sectors, and financial institutions (e.g., development banks, bi-lateral/multi-lateral donors) be strengthened to develop large scale PPP projects in building essential infrastructures towards resource efficient and zero waste (e.g., science parks, eco-industrial zones, WtE projects for GHG reduction, waste recovery facilities, recycling industries, etc.)?
6. Informal waste sector plays a significant role in contributing towards waste collection, recovery, and recycling markets in developing countries, but there are many serious social, health, and labor issues involved. Do we have best examples of cities and municipalities that have successfully introduced environmental and social standards and regulations taking into considerations the interest of informal sector workers, including women and under-aged children who are often engaged without provision of any protection from potential health risk hazards?
7. In international agendas and agreements such as the 2030 Agenda, the Samoa Pathway, etc., the international community have called for special attention to issues and challenges faced by small island developing states (SIDS) and their adaptability. Among others, the health, productivity, bio-diversity, and resilience of oceans and marine ecosystems are extremely important for present and future generations. In this regard, what type of regional cooperation could help address the specific waste management challenges faced by small island developing states (SIDS)? How to promote international PPPs in waste sector of SIDS? What are the challenges and opportunities?

About ISWMAW

International Society of Waste Management, Air and Water (ISWMAW)

(Registered under the Waste Bengal Societies Registration Act, XXVI, 1961, No. S/1L/80049 of 2011-12); Email : iswmaw@gmail.com; Web site: www.iswmaw.com;

CONTACT : iswmaw@gmail.com ; Website: www.iswmaw.com

Main Objectives of the ISWMAW:

1. The International Society of Waste Management, Air and Water will promote environmentally sound solid waste management practices, effluent treatment practices, Air and Water pollution control practices, general environment protection awareness etc. to achieve sustainable Development
2. The ISWMAW will support research, policy instruments, implementation and awareness generation on Sustainable Development Goals 2030.
3. The International Society of Waste Management, Air and Water will be involved in educating the management groups, process owners, Ragpickers & waste
4. handlers, SHG, adult poor, school children and college going students and others through training, awareness and technical assistance.
5. International cooperation and collaboration in building technological and organizational expertise to make the developing cities and municipalities self- reliant in dealing with the growing generation of municipal solid waste, including new emerging waste streams such as electronic waste (E-waste), plastic waste, Bio Medical waste, construction and demolition waste, and household hazardous waste and industrial hazardous wastes and encouraging lower materials consumption and resource circulation.
6. Development of Solid waste management, Air and Water quality monitoring and management as a profession.
7. Organising the flagship programme, the International Conference on Solid Waste Management and Exhibition (IconSWM), in different parts of the country and abroad for generating awareness.
8. Research and development in solid waste management, recycling, Waste-to-energy, Bio-fuels, Air and Water management & technology, water harvesting, Ground Water and drinking Water, LCA, Carbon Footprints, Climate Change and related social aspects.
9. Involving in activities related to Standardization, LCA, Green House Gas (GHG) Emission, Carbon Footprints and other sustainability issues and Development of a Policy and framework on Waste Management, Air and Water management.
10. Involving civic bodies and concerned NGOs working in this field for effective implementation of the National policy.
11. Support and encourage the private sectors, Academia, Universities, R &D Institutions, Small & Medium Sized Enterprises (SME)s, NGOs, community based organizations (CBOs), informal sector, development banks, and other stakeholders to collaborate with cities and municipalities in developing and implementing sustainable waste management strategies and projects.
12. Improvement and formulation in legislation and its enforcement in the field of Waste Management, Air and Water management with specific law to impose accountability on Realty and other industries responsible for generating wastes and incorporating air and water management.
13. Awareness & community involvement - Organising effective awareness programmes at all levels across all community to achieve the

level of awareness. To help promote awareness in the society in order to uplift moral standards by teaching adults and children alike the need for ascribing to higher standards to as to produce a cleaner, better and healthier society and be able to incorporate the pollution control measures.

14. To create awareness & opportunity among the men and women belonging to low socio-economic condition in the rural and slums areas by organizing different awareness programmes & trainings to find out their own talents and resources within themselves to fight against their own poverty .
15. Professional recognition nationally and internationally and to get affiliation to the International Solid Waste Associations. Development of expertise in the above areas.
16. Organizing Training Courses, workshops, seminars, symposiums, conference, and exhibitions on these issues.
17. Publishing books, journals, periodicals and reports on related issues and distribute those on sale. To encourage and support writing research articles and publication on various contemporary issues.
18. Playing a leading role and coordinating role in bringing practitioners, users, scientists, technologists, administrators and community together to collaborate on the continuous improvement and harmonization of framework, terminologies, methodologies and implementation related to Solid & liquid Waste, Air and Water management.
19. To encourage projects in maintaining, manage or partner to society developmental works and to open centres and /or Chapters of the society in various parts of the country and abroad for propagation of awareness, knowledge and cooperation.
20. To setup, establish, maintain and manage centers for the study of sociology, psychological counseling, handicraft and other subjects of interest for community development and to initiate and promote advance technologies in concerned areas.
21. To quit assistance for the un-employment young men and women belonging to low socio-economic condition In the Rutland slums by organizing different vocational training programme and launching different innovative self-help group (SHG) supporting plans and programmes for unprivileged people anywhere in the county & in West Beng

Major Activities performed since 2009

International Conference on Solid Waste Management (IconSWM) is the flagship programme of the International Society of Waste Management, Air and Water (ISWMAW) to promote environmentally sound solid waste management practices, effluent treatment practices, Air and Water pollution control practices, general environment protection awareness etc. in India and abroad for mass awareness and evolving collaborative research for effective waste management and environment protection. Following are the details of previous IconSWM Conferences. The International Conference on Solid Waste Management (IconSWM) has been renamed as International Conference on Solid Waste Management towards Circular Economy (IconSWM-CE) to promote the concepts and implementation strategies of Circular Economy and resource efficiency as a part of SDG 2030. During the pandemic COVID 19, more than 20 webinar in collaboration with different countries were held where more that 5000 participants and experts across the world participated. Following table contains the summary of IconSW-CE from 2009 till date.

Conference & Date	Venue	Organizers	No of Delegates & Countries
Planned: 11th IconSWM-CE & IPLA GLOBAL FORUM 2021 ; Dec 01-04,'21 On Virtual Platform	Jadavpur University, Kolkata, West Bengal, India. On Virtual Platform	ISWMAW, CSD&REM, Jadavpur University., UNCRD, IPLA,	Nearly 1000, delegates from 46 Countries Scheduled to Participate.
10th IconSWM-CE 2020; Dec 02-07,'20 On Virtual Platform	Jadavpur University, Kolkata, West Bengal, India. On Virtual Platform	ISWMAW, CSD&REM, Jadavpur University; CST IISc., UNCRD, IPLA,	Nearly 700, delegates from 44 Countries Participated.
9th IconSWM 2019; Nov 27-30, 2019	KIIT, Bhubaneswar, Odisha, India.	ISWMAW, KIIT, OSPCB, CQMS, Jadavpur University; CST IISc., UNCRD, IPLA, UNIDO,	550 Delegates from 21 Countries.
8th IconSWM 2018 Nov 24-27, 2018	Acharya Nagarjuna University, Guntur, Andhra Pradesh, India.	ISWMAW, CQMS, Jadavpur University; CST IISc., Swachh Andhra corporation (SAC), APPCB; UNCRD, IPLA, UNIDO, UNEP	Expected : 855, Delegates From 29 Countries.
7th IconSWM 2017 Dec 15-17, 2017	PJ T State Agriculture University, Rajendranagar, Hyderabad, Telangana, India.	ISWMAW, CQMS, Jadavpur University; CST IISc., TERI;	800 Delegates, from 27 Countries.
6th IconSWM 2016 Nov 24-26, 2016	Jadavpur University, Kolkata, India.	ISWMAW; CQMS, Jadavpur University, CST, IISc, IIT Kgp, TERI, CRIC, Kolkata.	557 Delegates From 23 Countries.
5th IconSWM 2015 Nov 24-27, 2015	National Science Seminar Complex, Indian Institute Of Science, Bangalore, India.	ISWMAW; CISTUP, Indian Institute of Science, Bangalore; CQMS, Jadavpur University,	500 Delegates From 21 Countries .
4th IconSWM 2014 January 28-31, 2014	AN Agriculture University, Rajendranagar,Hyderabad, Andra Pradesh, India.	Department of UD.Govt. of Andra Pradesh CQMS, Jadavpur University; ISWMAW;	1200 Delegates From 17 Countries.
3rd IconSWM 2012 July 30-Aug 1, 2012	Infosys Campus, HI Area, Mysore, Karnataka, India.	Mysore City Corporation, Mysore; ISWMAW; CQMS, JU.	1400 Delegates From 11 Countries.
2nd IconSWM 2011 Nov 7-9, 2011	Jadavpur University MainCampus, Kolkata,India.	CQMS, Jadavpur University, Kolkata. & ISWMAW	500 Delegates From 11 Countries
1st IconSWM 2009 4th-6th Nov. 2009	Netaji Indoor Stadium & Khudiram Anusilan kendra, Kolkata, India.	CQMS, Jadavpur University, Kolkata; ISWMAW; Municipalika; .	700 Delegates From 10 Countries.

As of now, delegates from most of the states in India and the several countries who participated in different IconSWM are, Australia, Austria, Bangladesh, Bhutan, Brazil, Canada, China, Egypt, Fiji, France, Georgia, Germany, Hong Kong, Italy, Japan, Kuwait, Lebanon, Malaysia, Mayanmer, Mauritius, Micronesia, Madagascar, Nepal, New Zealand, Nigeria, Netherlands, Portugal, Philippines, Rep. of Arab Emeritus, Oman, Rep of Korea, Russia, Serbia, Solomon Islands, South Africa, Soudi Arabia, Singapore, Sri Lanka, Sweden, Thailand, Taiwan, Tuvalu, UK, USA, Vietnam etc.

Glimpses of Activities:

Webinars organized by ISWMAW in 2020 during Pandemic Covid

Date	Title	Participation & Collaborators /Join Organisers
Nov 20, 2020	Webinar on Sustainable Development and Low Carbon Technology	CSD&REM, ISWMAW
Sept. 30, 2020	IconSWM-Asia and the Pacific Connect Webinar: Circular Economy and Waste Management under pandemic COVID-19	UNCRD, IPLA, India: CSD&REM Jadavpur University, CST, Indian Institute of Science, Bangalore; Consortium of Researchers in International Collaboration (CRIC) A few more organizations to be decided
Sept 18, 2020	IconSWM-India-Vietnam Connect Webinar: Circular Economy and Waste Management under pandemic COVID-19	Participation: 350 from 12 countries ; UNCRD, IPLA, Vietnam: HUST and ISPONRE, India : CSD&REM Jadavpur University and CST, Indian Institute of Science, Bangalore, Consortium of Researchers in International Collaboration (CRIC)
Sept 10, 2020	IconSWM-India-Philippines Connect Webinar: Resource Circulation and Waste Management under pandemic COVID-19	Participation: 300 from 14 countries UNCRD, Philippines: University of Santo Tomas, Adamson University Manila, Central Bicol State University of Agriculture, Vietnam: Vietnam National University of Agriculture, India: CSD&REM Jadavpur University, CST, Indian Institute of Science, Bangalore, Consortium of Researchers in International, Collaboration (CRIC) and NIT Durgapur,
August 11, 2020	IconSWM-India-Nigeria Connect Webinar: Resource Circulation and Waste Management under pandemic COVID-19	Participation: 850 from 15 countries Nigeria : University of Ilorin, Covenant University, Lagos State Environmental Protection Agency, (LSEPA), Nigerian Institution of Environmental Engineers, (NIEE), Lower Niger River Basin Development Authority, (LNRBDA), The Nigerian Institute of Mechanical Engineers, (NIME), Nigeria Society of Chemical engineers and Association of Professional Women Engineers of Nigeria (APWEN) India : Centre for Sustainable Development and Resource Efficiency Management, Jadavpur University; Consortium of Researchers in International Collaboration (CRIC) and CST, Indian Institute of Science, Bangalore
July 02, 2020	Webinar: Waste Management in post COVID- 19 Situation in South Asian Countries	Participation: 430 from 22 countries SACEP, and IGES
June 05, 2020	World Environment Day (WED) Webinar: Biodiversity and Environmental Protection during Pandemic Outbreak of COVID 19	Participation: 1145 from 26 countries UNCRD, SACEP, IPLA and , Jadavpur University, Consortium of Researchers in International Collaboration (CRIC)

Research Project by ISWMAW

1. **Funded Research Projects to Prabhu Jagatbandhu College 2018 : India** : Waste Management: A Municipal Level Study in West Bengal for assessing 3R concept implementation in the JAICA SWM project; **Partners** : Prabhu Jagatbandhu College, Andul, Howrah, ISWMAW and CQMS, Jadavpur University, West Bengal **Collaborators** : Uttarpara, Konnagar, Rishra, Sreerampore, Champadani and Vaidyabati in Hooghly district, West Bengal. Jointly funded by ISWMAW and Prabhu Jagatbandhu College.
2. **Research Projects 2017** : Projects will be identified and evolved on, waste quantification, Occupational Health Hazards of waste handlers, implementation of social welfare schemes for waste handlers, EPR Implementation and Review of Swachh Survekshan Report of SBM.
3. **International Collaborative Research Project on Circular Economy 2018-2021** : CRIC and ISWMAW taken up the research project with 10 countries to assess the CE implementation in different countries and develop publication during 2018-2021. Researchers from 10 countries agreed to work voluntarily.
4. **International collaborative Research Projects 2016 : BRICS E-waste Project (up to July 2019)**: -Waste electrical and electronic equipment management and Basel Convention compliance in Brazil, Russia, India, China and South Africa (BRICS) nations. Collaborative research project with individual funding; Lead Partner: Department of Mechanical Engineering, Jadavpur University, India; Other Partners : BCRCAP, Tsinghua University, BCRC, China; Dept of Civil, Env & Arch Engineering, University of Colorado, USA; State Dept of City Management, Saint-Petersburg State University of Economic, Russian Federation; School of Env. Sciences, University of Venda, South Africa; Innovarelab Pesquisa e Consultoria, São Paulo, Brazil.
5. **International collaborative Research Projects 2016 : India and China** - Collaborative Research Project on *E-waste Management* (October 2016 – October 2019): Jadavpur University and Tsinghua University, Beijing, China.
6. **Bio gas Plant at MCC 2015** : Bio gas Project in Mysore City Corporation in 2014-2015.
7. **Research Project at IISc., Bangalore 2015-2017** : Research Project on SWM in CST, IISc Bangalore in 2014-2016.
8. **International collaborative Research Projects 2015: "Global Waste Management, Resource Circulation and 3R"** (March 2016 – March 2020); Principal Investor in India Prof Sadhan Kumar Ghosh; Lead Partner: 1. **India**; Jadavpur University; Collaborative Partners and respective country Lead : 2. **Australia**; Griffith University, Griffith School of Engg, Queensland, 3. **Egypt**, University of Cairo; 4. **Germany**, Rostock University; 5. **Italy**, LAR⁵ Laboratory – Dipartimento di Ingegneria, University of Perugia, Perugia; 6. **Rep. of Korea**, Kyonggi University. 7. **South Africa**- The Cape Peninsula University of Technology, Cape Town; 8. **Thailand**, AIT; 9. **USA**, Widener University. Lead Supporting Organisation/Society : 10. International Society of Waste Management, Air and Water (ISWMAW) and 11. Consortium of Researchers in International Collaboration (CRIC).
9. **International collaborative Research Projects : India & Italy 2016** : Collaborative Research Project on *-Sustainable Development Goals – Realisation in Global Perspective* (June 2016 – December 2019) : Partners : Jadavpur University, India; LAR⁵ Laboratory – Dipartimento di Ingegneria, University of Perugia, Perugia, Consortium of Researchers in International Collaboration (CRIC) and International Society of Waste Management, Air and Water (ISWMAW).

Publications

1. Circular Economy: Recent Trends in Global Perspective edited by Sadhan Kumar Ghosh, Sannidhya Kumar Ghosh to be published on 19th December,2021 by Springer .
2. Biomethane through Resource Circularity Research, Technology and Practices Edited By Sadhan Kumar Ghosh, Michael Nelles, H.N. Chanakya, Debendra Chandra Baruah to be published by Taylor & Francis Limited on 21st December 2021.
3. Circular Economy in construction Industries edited by Sadhan Kumar Ghosh, Sannidhya K. Ghosh, Ronald Mersky, Venu Gopal Mahapatra, to be released in December 2021 by Springer Nature Singapore
4. Circular Economy: Global Perspective, Editors: **Ghosh**, Sadhan Kumar (Ed.)/ Outcome of the research project on Circular Economy contributed by 21 countries | Springer 2020
5. Emerging Technologies for Waste Valorization and Environmental Protection, Editors: Ghosh, S.K., Bhattacharya, C., Satyanarayana, S.V., Varadarajan, S. (Eds.) | Springer 2018
6. IconSWM Proceedings : The 1st IconSWM 2009 to 9th IconSWM-CE 2019 proceedings have been published each year and released on the day of the Conference.
7. Solid Waste Policies and Strategies: Issues, Challenges and Case Studies, **Editors: Ghosh, Sadhan Kumar (Ed.)** | Springer 2019
8. Recent Trends in Waste Water Treatment and Water Resource Management, Springer 2019
9. Waste Management as Economic Industry Towards Circular Economy, Editors: **Ghosh**, Sadhan Kumar (Ed.), | Springer 2019
10. Energy Recovery Processes from Wastes, Editors: **Ghosh**, Sadhan Kumar (Ed.) | Springer 2018
11. Waste Management as Economic Industry Towards Circular Economy, DOI: 10.1007/978-981-15-1620-7, *published in March 2020*,Springer Nature Publication;ISBN 978-981-15-0532-4;
12. Urban Mining and Sustainable Waste Management, <https://www.springer.com/gp/book/9789811505317>,*published in March 2020*,Springer Nature Publication;ISBN: 978-981-15-1620-7;
13. Special Issue of WM&R Journal : Published in 9th IconSWM-CE 2019. Springer Book : -Utilization and Management of Bioresources| has been published with 30 selected papers in September 2017 out of the papers presented in 6th IconSWM 2016. <http://www.springer.com/in/book/9789811053481>.
14. Circular Economy and Fly Ash Management, Springer Nature, 25-Oct-2019 - Science - 160 pages | **Springer 2019**
15. Solid Waste Policies and Strategies: Issues, Challenges and Case Studies, Springer Nature, 10-Mar-2020 - Science - 221 pages | **Springer 2018**
16. Sustainable Waste Management: Policies and Case Studies, 7th IconSWM—ISWMAW 2017, Volume 1, **Editors: Ghosh, Sadhan Kumar (Ed.)** | Springer 2018
17. Waste Management and Resource Efficiency, Proceedings of 6th IconSWM 2016, **Editors: Ghosh, Sadhan Kumar (Ed.)** | Springer 2019.
18. Utilization and Management of Bioresources, Proceedings of 6th IconSWM 2016; Editors: **Ghosh**, Sadhan Kumar (Ed.), | Springer

2018.

19. Springer Book: -Waste Management and Resource Circulation is in the process of publication with 122 selected papers expected to be released in December 2017- January 2018 out of the papers presented in 6th IconSWM 2016.
20. ELSEVIER Journal Publication: 104 selected Papers from 5IconSWM 2015 have been published in Procedia Environmental Sciences (ELSEVIER) in August 2016. Please refer the [link. http://www.sciencedirect.com/science/journal/18780296/35](http://www.sciencedirect.com/science/journal/18780296/35).

IconSWM Excellence Awards

IconSWM Excellence Awards have been given to the researchers for significant papers, to municipalities, Temples, industries for their significant achievement in waste management fields in each of the IconSWMs.

ISWMAW & IconSWM-CE encourages industries to implement the co-processing of wastes in Cement Industries. ISWMAW has instituted **IconSWM Excellence Award for Co-processing of Waste form 2019**.

IconSWM Lifetime Achievement Awards : The award has been instituted from 2018 to recognize and honour the individual for significant contribution in the areas of waste man.

IconSWM Excellence Awards for best papers: IconSWM Excellence Awards for best papers and presentation was instituted since the year 2009 and have been given to the researchers for significant papers, to municipalities, Temples, industries for their significant achievement in waste management and Circular Economy in each of the IconSWMs. **IconSWM Excellence Awards 2021 for best papers will be given based on the feedback from the experts in the conference.**