

9th International Conference on Sustainable Waste Management towards Circular Economy

KIIT (Kalinga Institute of Industrial Technology), Bhubaneswar, Odisha, India

Principal Organisers

KIIT (Kalinga Institute of Industrial Technology) (DU), Bhubaneswar, Odisha, India
International Society of Waste Management, Air and Water (ISWMAW)



Programme Book

Co-organisers



CQMS, JU



CST, IISc



Under the aegis of : International Society of Waste Management, Air and Water (ISWMAW)

Organising Partners



UNCRD



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



Rostock
University



Institute of Strategy and Policy
on Natural Resources and Environment



The Centre for Biomass Research in Germany

CONTENTS

Sl.		:	Page No.
01.	Pre Events held Under the aegis of International Society of Waste Management, Air and Water	:	2
02.	9 th IconSWM-CE Committee	:	3-5
03.	Pre-Registration of delegates, ISC & Organising Committee Meeting; List : IconSWM Excellence 2019 Awardees	:	6
04.	Inauguration Programme	:	7
05.	Plenary Sessions	:	8-11
06.	Valedictory Programme	:	12
07.	Technical Sessions Details – Day 1 (27/11/2019) TS1 to TS8S	:	13-17
08.	Technical Sessions Details – Day 2 (28/11/2019) TS8 to TS35	:	18-32
09.	Technical Sessions Details – Day 3 (29/11/2019) TS36 to TS49	:	33-40
10.	Valedictory	:	40
11.	List of Poster Presentation	:	40-52
12	Participation In Research Projects Leading To Publication		53
	Form for registration at the counter	:	54

HALL DETAILS:

- **Auditorium : IconSWM – ISWMAW**
- **Hall – Seminar Hall 1 to Hall 4 – 1st Floor; Seminar Hall 5 to Hall 8 – 2nd Floor**

9th IconSWM – CE 2019 during Nov 27-30, 2019

Programme Schedule

Venue: Campus 6, Convention Centre, KIIT, Bhubaneswar, Odisha, India;

Pre Events held Under the aegis of International Society of Waste Management, Air and Water (ISWMAW):

Dates	Event	Organiser	Key Persons
August 09-10, 2019	National Symposium on Waste Management and Resource Circulation, 2019 (NSWMRC 2019)	National Institute of Technology Durgapur (NITD), India; In Collaboration with CSIR - Central Mechanical Engineering Research Institute (CSIR-CMERI), 90 delegates joined.	Prof. Gopinath Halder, NIT Dgp Dr. Priyabrata Banejee, CSIR-CMERI, Dgp
August 03, 2019	National Symposium on the "Sustainable Waste Management"	Department of Energy, Tezpur University, Assam; 60 delegates joined.	Prof. Debendra Ch. Baruah Dr. Vikas Verma & Dr. Eeshan Kalita Tezpur University, Assam;
April 20, 2019	National Symposium on Sustainable Waste Management (NSSWM-2019)	Institute of Engineering & Management, Kolkata; 100 delegates joined	Dr. Rahul Baidya & Dr. Tapobrata Bhattacharya, IEM, Kolkata
23rd - 24th February, 2019	International Conference on Water, Sanitation and Hygiene - 2019 (WASH-2019)	Departments of Biotechnology, Social Work, Organic Chemistry and HSS & Basic Sciences; Dr. B. R. Ambedkar University, ; 300 delegates joined	Prof. Sujatha Peela, Principal, College of Science, Dr. B. R. Ambedkar University, Srikakulam

9th IconSWM-CE 2019 will be organised as an official side event of the high level Intergovernmental 10th Regional 3R Forum in Asia and the Pacific, to be held in September 2020 at Moscow, Russian Federation

- **Awards** : Industry & ULB Award Competition including the co-processing Awards held on 20th November 2019 before the Jury Board. Results are in Page 6. For questions: Prof S Moulick (8895045818)/Dr. R. N. Prusty (9437172226)/R Dasgupts (94371 72226).
- **Authors** : Kindly check the Programme Schedule & Poster list; For any question, please contact: Dr. Rahul Baidya (+91 9038638642) / Suresh Mondal (+91 9831104248/8240537668)
- **Paper Presentation duration** : in TS: 10 minutes. Plenary Speech : 20 minutes; Poster Presentation will be held as per schedule.
- **Presenters' Reporting** : to report at specific room 20 minutes before the session starts. All full papers received for ppt and poster presentation will be considered for publication in Books and Special issues of Journal as per specific review process.
- **Poster 24 " X 32"** : Poster presentation will be done as per guideline & schedule in page 40 to 52. Please bring tapes for fixing posters on the board.
- **Chair and Co-chairs** of the sessions are requested to take the guidelines from the Technical Desk for conducting the sessions.
- **Delegates** : Delegates are requested to fill the format given at the end of this program book, fill in and proceed for registration.
- **Awardee** : Awardee/organisation will get one free registration. Other members joining may pay the registration fee as in brochure.

9th IconSWM-CE 2019 Committee:

Core Group Members:

Patron, 9th IconSWM:

Prof. Achyuta Samanta, MP (Lok Sabha), Govt. of India, Founder, KIIT & KISS, Odisha, India
Prof. S. Das, Vice Chancellor, Jadavpur University, Kolkata, India

Advisor, 9th IconSWM:

Prof. Asoka K Das, Vice Chairman, Odisha State Higher Education Council, Govt. of Odisha | Prof. K. Hemachandra Reddy, Chairman, APSICHE, A. P
Shri R Karikal Valaven, IAS, Addl. Chief Secretary, Govt. of AP | Dr. C L Venkata Rao, Ex-Executive VC, Swachh Andhra Mission, AP
Shir B. S. S. Prasad, Chairman, APPCB, Vijayawada

Chairman, 9th IconSWM:

Prof. Sadhan Kumar Ghosh, Professor, Jadavpur University, Kolkata & President, ISWMAW

Executive Chairmen, 9th IconSWM:

Prof. Hrushikesh Mohanty, Vice Chancellor, KIIT, Bhubaneswar | Prof. A. Ghosh, VP-ISWMAW, JU

Co-Chairmen 9th IconSWM:

Prof. Sasmita Samanta, ProVC KIIT, Odisha | Mr. Arne M. Ragossnig, ISWA
Mr. Bala Kisore, Director of Factories, Govt. of AP | Prof. Agamuthu P, University of Malaya, Malaysia
Dr. B J Reddy, IAS, Hyderabad | Mr. C R C Mohanty, UNCRD, Japan
Dr. H. N. Chanakya, CST, IISc, Bangalore | Prof. Jinhui Li, Tsinghua University, China
Prof. Anupam Basu, Director, NIT, Durgapur | Mr. B H Anil Kumar, IAS, Commissioner, BBMP, India
Dr. R. L. Mersky, Widener University, USA | Prof. Sinichi Sakai, Kyoto University, Japan
Prof. Kalyan Rudra, Chairman, WB PCB | Mr. Devidutta Biswal, IFS, MS, Odisha State PCB
Prof. J S W Park, Yonsi University, Rep. of Korea | Prof. Suddhasatwa Basu, Director, CSIR-IMMT, Odisha
Prof. M. Nelles, Rostock University, Germany | Prof. T. Yoshioka, Tohoku University, JSMCWM, Japan
Dr. Nguyen T. S. Thang, ISPONRE, Vietnam | Prof. Harish Hirani, Director, CSIR-CMERI, Durgapur
Prof. S. W. Rhee, Kyonggy University, South Korea | Dr. R. L. Mersky, Widener University, USA
Prof S. Rama Krishna Rao, VC, Krishna University | Prof Satyanarayana, Director, IIT Tirupati

Vice-Chairmen 9th IconSWM:

Dr. R. K Behera, Dy. Dir (Safety), Fcty & Boiler, Odisha | Prof. Francesco Di Maria, Univ. of Perugia, Italy | Prof. Bitanjaya Das, Sr. Prof., KIIT, Odisha, India
Mr. G. Das, VP- ISWMAW | Mr. K. D. Bharadwaj, Director-IES, NPC; Delhi | Prof. S. K. Das, CU, Kolkata
Mr. U. V. Parlikar, Geocycle, ACC Ltd., Mumbai | Prof. S. Varadarajan, Former Secretary, APSICHE, SVU AP | Mr. S. Khan, BBMP
Mr. P. K. Jha, Niti Ayog, N Delhi | Mr. Vladislav Kudryavtsev, ERBA, Russian Federation | Prof. Pradip Sikdar, ISWMAW, Kolkata
Dr. Tapas Gupta, Ch. Engineer, WBPCB | Prof. M. Alamgir, VC-KUET, Bangladesh | Dr. VladImir Maryev, Russian Federation
Mr. M. Goutham Reddy, MD&CEO, Ramky Enviro Ltd. | Dr. Smarajit Roy, ISWMAW UK | Prof. P. K. Dey, Aston University, UK
Prof. Mahalaya Chatterjee, CU, Kolkata | Mr. Tapas Ghatak, SWM Expert

Secretaries	Dr. B.G. Mohapatra, Director, SCE, KIIT DU	Dr. S. Moulick, Asso. Dean, SCE, KIIT DU	Mr. P. K. Mohapatra, PD, OWSSB & SE, PHE, Odisha	Dr. Asit Aich, ISWMAW
Assistant Secretaries	Dr. Pritish Nanda, Ernst & Young, Odisha Ms. Sheetal Singh, Director, Karnataka Mr. Sanjay Kumar Patra, VSSUT, Odisha	Dr. S. Jaykumar, BBMP, Karnataka Dr. P. Banerjee, CMERI-CSIR, WB Prof. P. K. Parhi, CET, Bhubaneswar	Dr. M Raja Sekhar, NICMAR Prof. D. B. Sathpathy, CET, Bbsr Dr. B. B. Das, NIT Surathkal	Dr. S. Tripathy, KIIT Dr. P. Mahamalik, KIITDU Dr. Kshyanaprava Samal, KIIT
Chairman's Research Secretaries	Ms. Ipsita Saha, JU & ISWMAW, Kolkata Dr. Kirubakaran, ISWMAW, Chennai, TN	Dr. Rahul Baidya, IEM, Kolkata, ISWMAW, Mr. Sannidhya K Ghosh, UCB, Colorado, USA	Dr. Jyothilakshmi, ISWMAW, Bangalore	

9th IconSWM 2019 International Scientific Committee (ISC):

Prof. Allen Hu, Taiwan	Dr. Abas Basir, AECEP, Sri Lanka	Dr. Ahmed Murthaza, Maldives
Dr. Anurudda Karunarathna, Sri Lanka	Dr. Ajantha Perera, Fiji Islands	Dr. Adeniyi S. Aremu, Nigeria
Prof. Asari, Misuzu Japan	Dr. Anupam Khajuria, Japan	Mr. Chih Ku Chen, Taiwan
Dr. Chen, Liang-Tung, IDB, Taiwan	Dr. Chilin Cheng, Taiwan	Dr. Choi, Woo-Zin, Korea
Dr. Cruvinel Vanessa, Brazil	Dr. Damanhuri, Enri Indonesia	Dr. Divalishvili Natela, Georgia
Prof. Eckhard Kraft, Germany	Mr Eugene Y. Lin, CPC, Taiwan	Ms Likhuan Lee, CPC, Taiwan
Prof. Musahadi, Indonesia	Mrs. Grace Sapuay, Phillipinea	Dr. Hotta, Yasihiko, IGES, Japan
Prof. Iona Sárvári Horváth, Sweden	Prof. Fr. James, Taiwan	Dr. Jose Elvinia, APO, Japan
Prof J C Wang, Singapore	Dr. Jonathan Nixon, UK	Mr Jonathan D. Cocker, USA
Prof. J. W.C. Wong, Hong Kong	Prof. H. A. Sibak, Cairo	Mr. Khadga Bhakta Paudel, Nepal
Mr. Kazunobu Onogawa, IGES, Japan	Mr. Karlos Martin Nobella, Switzerland	Prof. Dr.-Ing. Klaus Fricke, Germany
Dr. Luis F. Diaz, USA	Mr. Vaughan Levitzke, South Australia	Dr. Marisa Soares Borges, Brazil
Dr. Milan Pavlovic, Serbia	Dr. Maria Margallo Blanco, Spain	Prof. Dr. Muhibbin Noor, Indonesia
Prof. Mohamed Ahmedna, Qatar	Prof. M. M. K. Fouad, Egypt	Prof. Mervat El-Hoz, Lebanon
Prof. Dr. M. Noor, indonesia UIN Wali Sango	Dr. Musahadi, UIN Wali Sango, Indonesia	Prof. Michael R. W. Walmsley, New Zealand
Mr. Nickolas J. Themelis, USA	Mr. Nervy C, Santiago, Philippines	Dr. Nguyen Van Tai, Hanoi
Dr. Nguyen Thi Kim Thai, Hanoi	Dr. Nawa R. Khatiwada, Nepal	Prof Ofira Ayalon, Israel
Mr Pillay, Anben, Rep. of South Africa	Dr. Pranshoo Solanki, USA	Dr.-Ing. Peter Hartwig, Germany
Dr. Prakash Kowlessar, Mauritius	Prof. Paul.H. Braunner, Austria	Dr. R. Al-Jarallah, Kuwait
Dr. Richard Blanchard, UK	Dr. R. Nantenaina, Madagaskar	Dr. Sari Piippo, Finland
Dr. Shigemoto Kajihara, Japan	Mr. Shunichi Honda, UNEP, Japan	Dr. Sandhya Babel, Thailand
Dr. Serpil Guran, USA	Mr. S. VORACHITH, Lao DPR	Prof. Sunil Herat, Australia
Prof. Thong Kong, Cambodia	Mr. Ugunbiyi Abdulwahab, Nigeria	Prof. Visvanathan C., Thailand
Dr. Vicki Hall, Sprep, Samoa		Dr. W. K. Buah, Ghana

Local Working Group:

Group/Duties	Name	Name
Accommodation	Prof. T Mohanty (9437230562), Mr. Sayantan Das(7278836216), Mr. A. K. Panda (GM, 9437421150)	
Co-Ordination	Prof. S.Moulick(88950 45818), Sushree Sasmita(9861077426),Dr.Rahul Baidya(9038638642),Raktim Dasgupta(9874767858)	
Decoration of Auditorium and Exhibition Stalls	Prof. D R Biswal (9583595895) Swabarna (9474628988); Tushar (9425035546), B. G. Mahapatra (8895212171), Tushar (9425035546)	
Food and Hospitality	Prof. A. K. Pani (8763315670), Soumen Pal (7308648480) , Bittu Ghosh (7908779167 , Prof. Debasish Roy (
Hall Management for Organizing Technical Sessions	Prof. D. K. Bera (7894470698); Priyanshu Sinha (7044068329), Divyajit Das (9439253888), Sandip Barman ()	
Conducting Technical Sessions / Valedictory – Leaders for each Room	IconSWM – ISWMAW Hall : Prof. P. Mahamallik (9090338038), Prof. Aniruddha Mukhopadhyay (9830310635), Dr. Sutripta Sarkar(9433430019), Prof. S.K. Das(8697304884/9830638908), Conference Hall 1: Dr. Kshyanaprava Samal(7326996764), Avijit Hazra, Conference Hall 2: Prof. P.K. Sikder (7044478222/9433543017), Conference Hall 3: Dr. H.N. Chanakya (9448271016), Conference Hall 4: Dr Smarajit Roy, Conference Hall 5 : Dr. Asit Aich ; Conference Hall 6 : Anaya Ghosh, Joyeeta, Conference Hall 7 : Dr. Bharath, Raktim Dasgupta, Conference Hall 8 : Dr. Latha R. with other teachers and the asigened research scholars from KIIT & JU	
Inaugural/ Valedictory Programme	Dr. Kshyanaprava Samal(7326996764), Prof. B. G. Mahapatra(8895212171), Prof. S.K. Das(8697304884/9830638908), Prof. Aniruddha Mukhopadhyay (9830310635), Prof. P.K. Sikder (7044478222/9433543017), Dr. Sutripta Sarkar(9433430019), , Deepika Palai, (9439784890), Apala Mohanty (8455968191) ,	
Infrastructure	Dr. D. R. Biswal (9583595895) , (Divyajit Das(9439253888), Soumya Sayan Pal (9051500018)),	
Medical Assistance Group	Swapna (), and Kamlesh(),	
Pick up & drop: Airport &d Railway Stn.	Prof. Kundan Samal (8984603655) . Prof. Chitta Panda (9937220267), Prof. B. G. Mahapatra (8895212171), , Raja Mohapatra(), Sourav Shaw (8334838649), R. Dasgupta (9874767858),	
Press media team	Prof. S. K. Das (8697304884/9830638908)/ Prof. Aniruddha Mukhopadhyay (9830310635), Prof. B. G. Mahapatra(8895212171),Alokananda(), Amresh(),	
Registration Kits: Arrangement, Distribution,	Ipsita Saha (9338171400), , A Aich (8910354375), Ipsita Saha (8017451580), B. Ghosh(9831050447), D. Roy, S. Shaw (8334838649), G. Debnath (9433304703), R. Dasgupta (9874767858), Sayan Mukherjee (8240990271), Anaya Ghosh, Avijit Hazra,Sayantan Das, ,Sushree Barsha, Prof. Sitam Subham Jena (8763378151),	
Organising photos and Group Photo, Research Survey and	Kaushik Das (9433210137)- I/c Photography; Anaya Ghosh (89005410422), Jayeeta Banerjee (98748375682), Tushar, R.Dasgupta(9874767858); Ipsita Saha (9338171400), SandipBarman (8420627950/6290614184); Ankita Sikdar, Stutee Mohanty	
Technical Desk and Programme Schedule	Rahul Baidya (9038638642), Suresh Mondal (8240537668) , Suresh Mandol (9836911950), Subhasis Maji, Chanchala Das(), Sandip, Angel, Prof. Kundan Samal (8984603655)	
ISWMAW-IconSWM Office	Suresh Mandol (9836911950), Subhasis Maji(8450090856); B. Ghosh, (7980288011), Sandip Barman (8981154231)	
Transport- KIIT City Tour etc	Suman Saha (), Tanmoy Sinha(), Prof. Kundan Samal (8984603655)	
Field Visited Trip	Tanmoy Majumder(), Prof. Kundan Samal (8984603655)	
Money Receipt	Gobindo Debnath (9433304703), Suresh Mandol (9836911950), B. Ghosh, (7980288011), Sandip Barman (8981154231)	
Mementoes	Pradip Nikhandia (9040442475)	Certificates Ipsita Saha (8017451580), Rahul Baidya (9038638642)

Pre-Conference Day, 26/11/2019 (Tuesday)

Pre-Registration of delegates at the VenUE

15.00-19.00

Six Registration counters:

1. For registered &/or paid Indian delegates; 2. For registered paid/unpaid Foreign delegates; 3. Registration at Counter 3, 4, 5 & 6 : Delegates for on the spot registration and payment (Payment is not accepted by cheque). Delegates will be given a hard copy of the format or print from this programme book (last page); Fill in (You can bring the filled in format in hard copy available in this website as Registration Format). Submit at any of the counters for registration and payment. On payment or production of payment proof, you will be given the registration kit and a conference badge. Our "BADGE WRITER" will be available to write your name and organisation & City/Country. After completion of your registration, kindly enter the IconSWM-ISWMAW hall.

18.00-19.00

18.00 hrs. : Meeting: International scientific committee & Organising Committee members, Seminar Hall 2, 1st. Floor.

Recipients of IconSWM Excellence Award 2019

IconSWM Lifetime Achievement Award 2019	IconSWM Excellence Award 2019 for industries for Coprocessing of waste in cement kiln (27.11.2019)	IconSWM Excellence Award 2019 for industries for Waste Mngement (27.11.2019)
<p>Prof. Achyuta Samanta, KIIT, Odisha Prof. Ashok Pandey, CSIR-IITR, Lucknow, India Mr. Kazunobu onogawa, CCET-IGES, Japan Prof. Sinichi Sakai, Kyoto University, Tokyo</p>	<p>1st Position :</p> <p>Geocycle, ACC Mumbai, India [Seven Units: ACC Kymore, Katni, MP; ACC Wadi, Gulbarga, Karnataka; ACC Madukarai, Tamilnadu; Ambuja Cement Ltd., Kodinar, Gujrat; Maratha Cement Works, Chandrapur, Maharashtra; Ambuja Bhatapara, Baloda Bazar, Chattisgarh; Ambuja Rbriawas, Rajasthan;]</p> <p>2nd Position :</p> <p>Kesoram Industries-Cement Business; Unit : Vasavadatta Cement, Sedam, Gulbarga, Karnataka; J K Cement Works, Unit :Muddarpur, Bagalkot, Karnataka; Dalmia Cement, Unit : Rajgangpur, Odisha ACC Ltd., Unit : Bargarh, odisha Ultra Tech Cement, [Two Unit:Reddupalayam Cement Works, Perambalur, Tamilnadu; Dhar Cement Works, MP]</p>	<p>1st Position :</p> <p>Paradeep Phosphate Ltd., Paradeep, Odisha</p> <p>2nd Position :</p> <p>Surajj Products Ltd. Sundergarh, odisha Tata steel BSL Ltd., Angul, Odisha Dalmia Cement, Rajgangpur, Odisha Emami Paper Ltd., Balasore, Odisha</p>
<p>IconSWM Excellence Award 2019 for industries association for Coprocessing (27.11.2019)</p> <p><i>Cement Manufacturers Association, New Delhi</i></p> <p>IconSWM Excellence Award for effective Leadership <i>Prof. Sasmita Samanta, Pro Vice Chancellor, KIIT</i></p> <p>IconSWM Excellence Award for Event Management <i>Prof. Benu Gopal Mohapatra, Director, SCE, KIIT</i> <i>Prof. Sanjib Moulick, Asso. Dean, SCE, KIIT</i></p> <p>IconSWM Excellence Award 2019 for ULB</p> <ul style="list-style-type: none"> ➤ <i>Mowlinnong Vollage, Megalaya, India</i> ➤ <i>Galle Municipal Council, Galle, Sri Lanka</i> ➤ <i>Bruhat Bengaluru Municipal Palike (BBMP), Karnataka</i> 	<p>IconSWM Excellence Award 2019 - NGO Involed in establishing community biogas : Help-O, Dangedara, Galle, Sri Lanka Karnataka, India</p>	<p>IconSWM Excellence Award 2019 for individual contribution in Coprocessing of waste in cement kiln(29.11.2019)</p> <p>Mr. Ulhas Prlikar, Ex-Geocycle, Consultant Ms. Aparna Dutt Sharma, Secretary General, CMA Mr. Mahendra Singhi, President, CMA Mr. Varun Dilip Boralkar, ACC Ltd., Mr. Aniruddh Dani, DGM, AFR Management, J K Cement Ltd. Dr. K. V. Reddy, Aditya Birla Cement Mr. Manoj Sure, Sr. Manager, AFR Head, J K Cement Ltd. Mr. Gopal Gupta, Manger, Technical Analyst, J K Cement Ltd.</p>

	Day 1, 27th November 2019 (Wednesday): Conference & Exhibition : November 27-29, 2019
08.30	REGISTRATION OF DELEGATES AT THE VENUE
	Inaugural 27/11/2019 (Wednesday):
	Inaugural Part I
10.15	Prof. Sadhan K Ghosh will preside over the session
10.15	Reception of the guests by the Chairman, IconSWM
10.25	Welcome address by Prof. H.K. Mohanty, Vice Chancellor, KIIT
10.30	Theme and objectives of the Conference and by Prof. Sadhan K Ghosh, JU & ISWMAW
10.40	Speech by Mr. Choudhury Rudra Charan Mohanty, UNCRD-DSDG/UN DESA, Japan
10.45	Speech by Co Chairman Prof. M. Nelles, Rostock University, Germany
10.50	Release of Books : CE Book, Special Issue, Iconswm Proceedings, Indore case studies
11.00	Award giving Ceremony : IconSWM 2019 Lifetime Achievement Awards, (three) IconSWM 2019 Excellence Awards for ULBs, IconSWM 2019 Excellence Awards for Industries in SWM IconSWM 2019 Excellence Awards for Industries for contribution in Co-processing
11.20	Inaugural Address by HE Governor of Odisha (tbc)
11.35	Announcement of 10 th IconSWM 2020
11.45	Goup Photo at outside the auditorium
12.00	Departure of HE Governor of Odisha (tbc)
	Inaugural Part II
12.05	Keynote Speech :Faecal Waste Management in non-sewered Areas-Mr.G. Mathi Vathan, IAS, Principal Secretary, H&UDD, Odisha,
12.20	Keynote Speech : Prof. Sadhan Kumar Ghosh : Waste Management and Circular Economy : Global Trends and cooperation
12.35	Speech by Prof. Arne Ragoosnig, President, ISWA, Austria
12.40	Speech by Prof. Agamuthu P, Editor-in-Chief, WM&R, Malaysia
12.45	Speech by Dr. Abas Basir, DG, SACEP, Sri Lanka
12.50	Speech by Co Chairman Dr. H. N. Chanakya, IISc, Bangalore
12.55	Speech by Mr. K. Onogawa, Director, CCET, IGES, Japan
13.00	Presidential Speech
13.05	Vote of Thanks and inauguration of Exhibition by Prof. Benu Gopal Mohapara, KIIT
13.10	EXIT

13.20	<p>Lunch & Networking at the venue (Banquet and open Air garden) (27.11.2019) POSTER SESSION: on 1st floor and the exhibition ground; The Jury for the assessment of poster and the presenters may take lunch and find time to visit the poster displayed at the exhibition & first floor. Contact ISWMAW Camp office.</p>
-------	--

PLENARY SESSIONS - 1, 2, 3 & Open House Panel Discussion :

14.20 – 15.40		Plenary Session, 27/11/2019		
14.20		Plenary Session -1 (PS -1) : IconSWM-ISWMAW Auditorium Waste Management & Circular Economy	Plenary Session - 2 (PS -2) : Hall 1 Seminar Hall 2 (1st Floor) Co-processing of Wastes	Plenary Session - 3 (PS -3) : Seminar Hall 4 (1st Floor) Theme: Plastic Waste Management in Developing Countries: Land-based solutions for reducing marine debris
		Chair & Co Chair : Prof. Sadhan K Ghosh, Mr. Anil Kumar, IAS, Commissioner, BBMP,	Chair & Co Chair : Dr. Debidutta Biswal, IFS, MS, Odisha SPCB and Mr Berthold Kern, Geocycle	Organized by CCET/UNEP-IETC, Japan & ISWMAW, India Chair & Co-Chair: Mr. Kazunobu Onogawa, CCET and Dr. Premakumara Jagath,
14.25		Implementation of Circular Economy in Asia Pacific : Mr. C. R. C. Mohanty, UNCRD, Japan	Co-processing of waste in cement plant- Initiatives by Govt. of India - Mr. Vinay Jha, Director/Dr. V. K. Chaourasia, Advisor, MoHUA, Gol	
14.45		Plastic Pollution Calculator – Prof. Arne Ragoosnig, Managing Director, International Solid Waste Association, Austria	Co-processing of waste in cement plant- Initiatives of Indian Cement factories President/Secretary General, Cement Manufacturer’s Asso.,-	14:20 - 14:25: Introduction to the session - Mr. Kazunobu Onogawa, Director, CCET 14:25 - 14:45: Plastic waste management in Indonesia: Outcomes from National Plastic Waste REduction Plan - Mr. Tsukiji Makoto, Consultant, CCET 14:45 - 15:05: Plastic waste management in India: Learning from Hyderabad City - Mr. Achu R Sekhar, Senior Project Officer, ICLEI 15:05 - 15:25: Plastic waste management in Sri Lanka: Overview and policy directions- Dr. Premakumara Jagath, Deputy Director, CCET & T Suboharan, Assi. Director, CEA
15.05		Emissions from the incineration of municipal solid waste. Effects of legal and technological progress - Prof. Francesco Di Maria, LAR Laboratory - Dept of Engineering, University of Perugia, Via G. Duranti, 06125, Perugia, Italy	ULB who is providing Waste to Cement Plant for co-processing: MSW for co-processing -: Procedure adopted, issues, challenges.	
15.25		Discussion	Discussion by the Cement plants involen in co- processing: Procedure adopted, issues, challenges.	
15.45		<p>Open House Panel at IconSM-ISWMAW Auditorium : IconSWM International Meet : Foreign experts and Indian stakeholders at IconSWM – ISWMAW Hall Foreign experts expected to be present from : Austria, Bangladesh, Canada, Germany, Georgia, Hungary, Italy, Indonesia, Iran, Japan, Lebanon, Malaysia, Nigeria, Nepal, Philippines, Serbia, Sri Lanka, South Africa, Thailand, UK, USA, Vietnam. Two Representatives from participating foreign countries in 9th IconSWM-CE are cordially invited to the discussion on stage. Delegates in the audience are requested to raise question on the status of the SWM implementation in written form and to hand over to the volunteers well in advance in the hall. Moderators: Prof. Sadhan K Ghosh, Chair, IconSWM – ISWMAW</p>		
16.30		Tea/Coffee Break (16.30 to 16.55)		
		Technical Sessions on 27.11.2019 detailed later		

PLENARY SESSION 4, 5 on Day-2, 28/11/2019 (Thursday)																			
8:30	Day-2 Registration																		
PLENARY SESSION on 28/11/2019																			
9:00 – 10:02	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> Plenary Session - 4 (PS -4) : IconSWM-ISWMAW Hall Theme: A Roadmap for Sustainable Waste Management and Resource Circulation in South Asia Organizers: CCET/UNEP-IETC, Japan;, SACEP, Sri Lanka & ISWMAW, India </td> <td style="width: 50%; padding: 5px;"> Plenary Session - 5 (PS -5) : Seminar Hall 4 WtE and Sustainable Waste Management </td> </tr> <tr> <td style="padding: 5px;"> Chair & Co-Chair: Mr. Kazunobu Onogawa, CCET; Prof. Sadhan K Ghosh, iswmaw </td> <td style="padding: 5px;"> Chair/Co-chair : Dr. Sangramjit Nayak, DMA, Odisha (tbc) </td> </tr> <tr> <td style="text-align: center;">9.02 – 9.22</td> <td style="padding: 5px;"> 09:00 - 09:15: Waste and Resource Management: A global perspective to achieve SDGs - Prof. Sadhan K Ghosh, Chai, IconmSWM </td> </tr> <tr> <td style="text-align: center;">9.22 – 9.42</td> <td style="padding: 5px;"> 09:15 - 09:30: A Status Report of Solid Waste Management (SWM) in South Asia - Ms. Hikaru Shirai, Intern, UNEP-IETC </td> </tr> <tr> <td style="text-align: center;">9.42- 10.02</td> <td style="padding: 5px;"> 09:30 - 09:45: A Roadmap for Sustainable Waste Management and Resource Circularity In South Asia - Dr. Premakumara Jagath, Deputy Director, CCET </td> </tr> <tr> <td style="text-align: center;">9.42- 10.02</td> <td style="padding: 5px;"> 09:45 - 10:00: SACEP and its mandate in Waste and Resource Management in South Asia - Dr. Basir Abas, Director, SACEP </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> Waste to Energy: Current Technologies - Prof. P. Agamuthu, Agamuthu P, Nithiya A, Shimaoka T 1Institute of Biological Sciences, University of Malaya, Malaysia 2Dept of Urban and Env Engg, Kyushu University, Japan </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> A Study on The Legal and Administrative Support for Proper Management of World Famous Shri Jagannath TemplePuri - Prof. Sasmita Samanta, Sasmita Samanta, R K Nanda*, P Rautaray, KIIT Deemed to be University, Bhubaneswar, </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> Sustainable Waste Management Systems Michael Nelles Michael Nelles, Jan Sprafke Isabell Eickhoff, Gert Morscheck Rostock University, Dept of Waste & Resource Mngt, Germany Deutsches Biomasseforschungszentrum gGmbH (DBFZ), the Centre for Biomass Research in Germany, Leipzig, Germany </td> </tr> </table>	Plenary Session - 4 (PS -4) : IconSWM-ISWMAW Hall Theme: A Roadmap for Sustainable Waste Management and Resource Circulation in South Asia Organizers: CCET/UNEP-IETC, Japan;, SACEP, Sri Lanka & ISWMAW, India	Plenary Session - 5 (PS -5) : Seminar Hall 4 WtE and Sustainable Waste Management	Chair & Co-Chair: Mr. Kazunobu Onogawa, CCET; Prof. Sadhan K Ghosh, iswmaw	Chair/Co-chair : Dr. Sangramjit Nayak, DMA, Odisha (tbc)	9.02 – 9.22	09:00 - 09:15: Waste and Resource Management: A global perspective to achieve SDGs - Prof. Sadhan K Ghosh, Chai, IconmSWM	9.22 – 9.42	09:15 - 09:30: A Status Report of Solid Waste Management (SWM) in South Asia - Ms. Hikaru Shirai, Intern, UNEP-IETC	9.42- 10.02	09:30 - 09:45: A Roadmap for Sustainable Waste Management and Resource Circularity In South Asia - Dr. Premakumara Jagath, Deputy Director, CCET	9.42- 10.02	09:45 - 10:00: SACEP and its mandate in Waste and Resource Management in South Asia - Dr. Basir Abas, Director, SACEP	Waste to Energy: Current Technologies - Prof. P. Agamuthu, Agamuthu P, Nithiya A, Shimaoka T 1Institute of Biological Sciences, University of Malaya, Malaysia 2Dept of Urban and Env Engg, Kyushu University, Japan		A Study on The Legal and Administrative Support for Proper Management of World Famous Shri Jagannath TemplePuri - Prof. Sasmita Samanta, Sasmita Samanta, R K Nanda*, P Rautaray, KIIT Deemed to be University, Bhubaneswar,		Sustainable Waste Management Systems Michael Nelles Michael Nelles, Jan Sprafke Isabell Eickhoff, Gert Morscheck Rostock University, Dept of Waste & Resource Mngt, Germany Deutsches Biomasseforschungszentrum gGmbH (DBFZ), the Centre for Biomass Research in Germany, Leipzig, Germany	
Plenary Session - 4 (PS -4) : IconSWM-ISWMAW Hall Theme: A Roadmap for Sustainable Waste Management and Resource Circulation in South Asia Organizers: CCET/UNEP-IETC, Japan;, SACEP, Sri Lanka & ISWMAW, India	Plenary Session - 5 (PS -5) : Seminar Hall 4 WtE and Sustainable Waste Management																		
Chair & Co-Chair: Mr. Kazunobu Onogawa, CCET; Prof. Sadhan K Ghosh, iswmaw	Chair/Co-chair : Dr. Sangramjit Nayak, DMA, Odisha (tbc)																		
9.02 – 9.22	09:00 - 09:15: Waste and Resource Management: A global perspective to achieve SDGs - Prof. Sadhan K Ghosh, Chai, IconmSWM																		
9.22 – 9.42	09:15 - 09:30: A Status Report of Solid Waste Management (SWM) in South Asia - Ms. Hikaru Shirai, Intern, UNEP-IETC																		
9.42- 10.02	09:30 - 09:45: A Roadmap for Sustainable Waste Management and Resource Circularity In South Asia - Dr. Premakumara Jagath, Deputy Director, CCET																		
9.42- 10.02	09:45 - 10:00: SACEP and its mandate in Waste and Resource Management in South Asia - Dr. Basir Abas, Director, SACEP																		
Waste to Energy: Current Technologies - Prof. P. Agamuthu, Agamuthu P, Nithiya A, Shimaoka T 1Institute of Biological Sciences, University of Malaya, Malaysia 2Dept of Urban and Env Engg, Kyushu University, Japan																			
A Study on The Legal and Administrative Support for Proper Management of World Famous Shri Jagannath TemplePuri - Prof. Sasmita Samanta, Sasmita Samanta, R K Nanda*, P Rautaray, KIIT Deemed to be University, Bhubaneswar,																			
Sustainable Waste Management Systems Michael Nelles Michael Nelles, Jan Sprafke Isabell Eickhoff, Gert Morscheck Rostock University, Dept of Waste & Resource Mngt, Germany Deutsches Biomasseforschungszentrum gGmbH (DBFZ), the Centre for Biomass Research in Germany, Leipzig, Germany																			
Technical Sessions on 28/11/2019 detailed later																			
13:20- 14:15	Lunch & Networking at the venue (open Air garden) POSTER SESSION: on 1st floor and the exhibition ground; The Jury for the assessment of poster and the presenters may take lunch and find time to visit the poster displayed at the exhibition & first floor. Contact ISWMAW Camp office.																		

PLENARY SESSION on 28/11/2019		
14:20 - 15:50	Plenary Session -6 (PS-6) : IconSWM-ISWMAW Hall	
	Plenary Session - 7 (PS - 7) : Seminar Hall 4 Waste Management and Research collaboration	
	Co-Chaired by : Prof. S. K. Ghosh, Mr. D. Biswal, MS, PCB; Mr. Saroj Kr. Banerjee, Mr. Varun Dilip Boralkar,	Chair / Co Chair : Mr. P. K. Jha, Bihar; Prof. B. G. Mohapatra
	Industry Panel Discussion : Each Industry will speak for 5 minutes followed by QA by audience	Waste Valorization, Prof. Chiranjib Bhattacharya, Pro VC, Jadavpur University
	ACC Mumbai, India Vasavadatta Cement, Sedam, J K Cement, New DelhiParadeep Phosphate Ltd., Paradeep, Odisha Surajj Products Ltd. Sundergarh, Tata steel , Angul, Odisha	Dalmia Cement, Rajgangpur ACC Ltd.,Bargarh, odisha Ultra Tech Cement, Mumbai, Dalmia Cement, Rajgangpur, Odisha Emami Paper Ltd., Balasore, Odisha
		Waste Management in BBMP and way forward, Mr. Anil Kumar, IAS, Commissioner, BBMP Municipal Solid Waste-to-Energy Facility in the City of Spokane, Washington A Case Study Tapas K. Das ¹ and Arindam Ghosh ² Tapas K. Das ¹ and Arindam Ghosh ² . ¹ Visiting Professor, School of Engineering, Saint Martin's University, Lacey, Washington, USA. ² Former Senior Scientist, NEERI, India
Technical Sessions on 28.11.2019		
5.30 pm	<p>Research Meeting on Invitation: Research Collaboration meeting to conduct by IconSWM-ISWMAW in collaboration with Andhra Pradesh State Council of Higher Education, Odisha State Council of Higher Education, Jadavpur University and KIIT for exploring international research collaboration between Indian Universities and Foreign Universities followed by the Dinner.</p> <p>Chairs: Prof. K. Hemachandra Reddy, Chairman, APSCH and Prof. Asoka K Das, Vice Chairman, Odisha State HEC, Coordinated by: Prof Sadhan Kumar Ghosh, Chair, IconSWM</p> <p>Interested potential Collaborators for research projects/ MOU are welcome. Please enlist your name at the ISWMAW camp office on 27.11.2019 before 5 pm.</p>	

DAY 3, 29/11/2019 (Friday)									
9.00 – 10.00	PLENARY SESSION on 29/11/2019								
9.00 – 10.00	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> Plenary Session - 7 (PS - 7) : IconSWM-ISWMAW Hall Waste Reduction and Waste Management Chair/Co-chair : Prof. B. Das, KIIT; Jonathan Cooker, Canada, </td> <td style="width: 50%; vertical-align: top;"> Plenary Session - 8 (PS - 8) : Seminar Hall 4 Waste Management and Research collaboration Chair/Co-chair :Dr. Arne Ragossnig, ISWA </td> </tr> <tr> <td style="vertical-align: top;"> 9.00 – 9.20 Waste Management in South Asian Countries Dr. Basir Abas, DG, SACEP, Sri Lanka </td> <td style="vertical-align: top;"> Indian-Hungarian bilateral cooperation in the field of research and technology, Dr. Farkas Hilda, Hungary, Counsellor for science and technology, Embassy of Hungary </td> </tr> <tr> <td style="vertical-align: top;"> 9.20 – 9.40 Waste reduction and Management in Ordnance Factories in India Mr Ggan Chaturbedi, DDG, Ordnance Factory Board, Kolkata </td> <td style="vertical-align: top;"> Environmental Crime Scene Investigation (ECSI) Challenges from Abandoned Waste Dumpsites: a case study from Mysore- Dr. H. N. Chanakya, Hoysall Chanakya*^{1,2}, Jai Prakash BS¹ 1AHMP Bangalore Chapter 2Centre for Sustainable Technologies, IISc, Bangalore, India </td> </tr> <tr> <td style="vertical-align: top;"> 9.40-10.00 Mr. Anbendren Pillay, South Africa </td> <td></td> </tr> </table>	Plenary Session - 7 (PS - 7) : IconSWM-ISWMAW Hall Waste Reduction and Waste Management Chair/Co-chair : Prof. B. Das, KIIT; Jonathan Cooker, Canada,	Plenary Session - 8 (PS - 8) : Seminar Hall 4 Waste Management and Research collaboration Chair/Co-chair :Dr. Arne Ragossnig, ISWA	9.00 – 9.20 Waste Management in South Asian Countries Dr. Basir Abas, DG, SACEP, Sri Lanka	Indian-Hungarian bilateral cooperation in the field of research and technology, Dr. Farkas Hilda, Hungary, Counsellor for science and technology, Embassy of Hungary	9.20 – 9.40 Waste reduction and Management in Ordnance Factories in India Mr Ggan Chaturbedi, DDG, Ordnance Factory Board, Kolkata	Environmental Crime Scene Investigation (ECSI) Challenges from Abandoned Waste Dumpsites: a case study from Mysore- Dr. H. N. Chanakya, Hoysall Chanakya*^{1,2}, Jai Prakash BS¹ 1AHMP Bangalore Chapter 2Centre for Sustainable Technologies, IISc, Bangalore, India	9.40-10.00 Mr. Anbendren Pillay, South Africa	
Plenary Session - 7 (PS - 7) : IconSWM-ISWMAW Hall Waste Reduction and Waste Management Chair/Co-chair : Prof. B. Das, KIIT; Jonathan Cooker, Canada,	Plenary Session - 8 (PS - 8) : Seminar Hall 4 Waste Management and Research collaboration Chair/Co-chair :Dr. Arne Ragossnig, ISWA								
9.00 – 9.20 Waste Management in South Asian Countries Dr. Basir Abas, DG, SACEP, Sri Lanka	Indian-Hungarian bilateral cooperation in the field of research and technology, Dr. Farkas Hilda, Hungary, Counsellor for science and technology, Embassy of Hungary								
9.20 – 9.40 Waste reduction and Management in Ordnance Factories in India Mr Ggan Chaturbedi, DDG, Ordnance Factory Board, Kolkata	Environmental Crime Scene Investigation (ECSI) Challenges from Abandoned Waste Dumpsites: a case study from Mysore- Dr. H. N. Chanakya, Hoysall Chanakya*^{1,2}, Jai Prakash BS¹ 1AHMP Bangalore Chapter 2Centre for Sustainable Technologies, IISc, Bangalore, India								
9.40-10.00 Mr. Anbendren Pillay, South Africa									
Technical Session 3rd Day, 29/11/2019									

14.30 – 17.00	Valedictory Session on 29/11/2019
14.30	Prof. Sadhan K Ghosh will preside over the session and receive the guests on the dias and reception of guests
14.40	Welcome address by Prof. Sasmita Samanta, KIIT
14.45	Reporting of the conference by Prof. Sanjib Moulick, Secretary and Prof Benugopal Mohapatra, Director, School of Civil Engg., KIIT
14.55	Speech by Co Chairman Prof. P. Agamuthu, Editor-in-Chief, WM&R
15.05	Speech by Mr. Choudhury Rudra Charan Mohanty, UNCRD-DSDG/UN DESA, Japan
15.15	Speech by the Patron Prof. Achyuta Samanta, KIIT & KISS
15.25	Speech by the Mr. D Biswal, MS, OSPCB
15.35	Speech by the Ms. Archana Dutt Sharma, DG, CMA
15.40	Announcement of 10 th IconSWM 2020 by the Prof. P. Sreedhar Reddy, Registrar, and Prof. V, Varadarajan, Prof. Srimurali and Prof. Damodaran, SV University, Tirupati
15.50	Speech by Prof. K. H. Reddy, Chairman, APSICHE, Guntur, AP
16.00	Speech by Prof. A. Ragossnig, President, ISWA, Austria
16,05	Announcement of Awards by Prof. Francesco Di Maria and Prof. H. N. Chanakya, IISc, Bangalore &
16,15	Feed back by Prof. M. Nelles, Rostock University and Dr. Basir Abas, DG, SACEP, Sri Lanka
16.25	Award giving Ceremony : IconSWM 2019 Excellence Awards for papers; IconSWM Lifetime Achievement Award; IconSWM 2019 Excellence Awards for significant Individual contribution in Co-processing
16.45	Valedictory address by the Chief Secretary, Govt. of Odisha, (tbc)
17.00	Presidential Speech of the Conference and by Prof. Sadhan K Ghosh, JU & ISWMAW
17.10	Vote of Thanks by KIIT
17.15	EXIT
	30/11/2019 : Field Visit and Tour to Puri & Konark Temple
	30/11/2019: a) Field Visit and b) Visit to Puri and Konark Temple: Those who are interested to take up either 1 or 2 should register their name at the registration counter before 4 pm 28/11/2019 to ensure the seat in the buses.
8.00- 20.00	1) Field Visit to FSTP at Basuaghai, STP at Cuttack and Temple around Bhubaneswar (8.30am – 5 pm), or 2) Visit to Puri and Konark Temple (8.00am – 8.00 pm). Bus will start from Campus 6 gate.

Technical Sessions Details

17:00 -18:55	Day 1, 27/11/2019 (Thursday): TS 1 to TS 8
	1st Parallel Break out Technical Sessions, TS1 to TS8 : Day 1, 27/11/2019 (Wednesday)

	IconSWM – ISWMAW	Seminar Hall 1	Seminar Hall 2	Seminar Hall 3	Seminar Hall 4	Seminar Hall 5	Seminar Hall 6	Seminar Hall 7
17:00 -18:55	TS1	TS2	TS3	TS4	TS5	TS6	TS7	TS 8S
	Hall Leaders: Prof Aniruddha Mukhopadhyay Dr Sutripta Sarkar	Hall Leaders: Prof S Babel Dr. Baishali Rajbanshi	Hall Leader: Dr. Latha R Prof P. Saha	Hall Leader: Prof P. K Sikdar	Hall Leader: Prof HN Chanayaka	Hall Leader: Prof S K Das Prof. Debasish Roy	Hall Leaders: Mr T K Ghatak, Prof. Damodaran	Hall Leader: Dr Smarajit Roy
	Circular Economy	Bio Energy	Plastic Waste	Energy Recovery	SBM & SWM	Waste Water	Composting	Faecal Sludge and Septage Treatment
	Chair: Mr. K. Onogawa Co- Chair :Prof. V. Kalarani	Chair: Dr Amit K. Ghosh Co- Chair : Dr. Narasimha	Chair:Prof Renu Pawel Co- Chair :Prof. T. Chandrasekhar	Chair:Prof Francesco Di Maria Co- Chair: Dr U. Parlikar	Chair: Dr Sasmita Samanta Co- Chair: Prof. P. K. Sikdar	Chair: Prof.S.K. Das Co- Chair: Dr. Alexander Pavlovich	Chair: Dr R. P. Pappu Co- Chair: Dr. D.Bharath	Chair:Prof. P. Brahmaji Rao Co- Chair: Dr. J. Padhi
17:00- 17:10	Gainful Utilization of Legacy Waste Fractions Recovered from Mining of old Dumpsites in India – A Circular Economy Approach Richa Singh 1 , Bakul Rao 2 and Shyam R. Asolekar 1 Maharashtra, India	Experimental study on continuous Feed down draft gasifier for rice Husk Gokulavani.r, ramadevi.j, nithya kalyani.p, Christin henvin mary.a & V. Kirubakaran Tamil Nadu, India	Chemical Recycling of post-consumer flexible foam Materials Ronny Hanich Germany	Co-processing of waste in cement industry : A review Amina Khanam, Animesh Maurya, Kundan Samal, Sanjib Moulick Odisha, India	Cleanliness Movement Challenges and Public Response: A case study of Bangalore and Tiruchirapalli Kavya Siddeshwar1, Janani Selvaraj1, Shivaraju.H.P2 and Prashanthi Devi Tamil Nadu, India	Removal of Hexavalent Chromium from Aqueous Solution by Using Neem Bark Akankshya, RakeshRoshan Dash, Burla, Odisha, India	Emerging Compost practices in the Russian Federation. M.A. Chernysheva, V.N. Pervakova Russia	Construction, Operation and Maintenance Cost of nature based Faecal Sludge and Septage Treatment Plants in Odisha State, India P. K. Mohapatra; S. Majhi and B. K. Parida Odisha, India
17:10- 17:20	Waste Management in a circular economy	Anerobic digestion of ocimum	Plastic Waste Management: Issues &	Biomass Microwave Pyrolysis:	Swachh Bharat Mission- Planning, Implementation	Treatment efficiency assessment of	Sustainable Management of Eutrophicated	Implementing FSM at scale: A case from

	IconSWM – ISWMAW	Seminar Hall 1	Seminar Hall 2	Seminar Hall 3	Seminar Hall 4	Seminar Hall 5	Seminar Hall 6	Seminar Hall 7
17:00-18:55	TS1	TS2	TS3	TS4	TS5	TS6	TS7	TS 8S
	– Practices in Germany .Research activities at University of Stuttgart and the Indo German Centre for Sustainability Garcés Sánchez 1,* and M. Kranert, Germany	sanctum (holy basil): effect of Inoculum and substrate concentration Sumanth Kumar Matha, Dr K. Swapnavahini 2* and Dr U. Kavya Jyothsna AP, India	Challenges Of Odisha Purna C. Mahapatra, Basanta K. Sahu Odisha, India	Minireview Ahmed Elsayed Fodah ^{1,*} , M. K. Ghosal ^{2,**} , D. Behera ³ Odisha, India	And Achievement B. Chatterjee ¹ , S. Roy ² , N. Modak ^{2,*} Kolkata, India,	various Vertical Down Flow Constructed Wetlands comprising different medias to treat Industrial Wastewater. Paulami Sahu ^{a*} and Yatri Chavda ^a Gujarat, Gandhinagar, India	Water Bodies by Vermicomposting the Blooming Hydrophytes Himansu Sekhar Sahu, Sunanda Sahoo Odisha, India	the state of Odisha, India Prithish Nanda, Bhawana Prakash, Ananya Ghosh, Deepak Nag, Sarith Sashidharan and Elisha Patnaik Odisha, India
17:20-17:30	Sculptures from Scraps A new area of Circular Economy PanigrahyR.K. Gaya Chand Sahu, Zibul Nisha, Subasish Panda, ⁴ SrinuRao Odisha, India	Production of Methane Gas from SVU Kitchen’s Food Waste using Anaerobic Digestion K. Abraham, T. Pardhasarathy, B. Sures and T. Damodharam Tamil Nadu, India	Waste Management of Polymer Composite Materials Himanshu Sekhar Panda 1 and Sanjib Moulick Odisha, India	Status of Municipal Solid Waste generation in the world and in India with emphasis on Refused Derived Fuel production and its utilization Priyanka Tripathi*, Anand Shivapuji, Lakshminarayana Rao Karnataka, India	Utilization of Porous Frameworks as Smart Adsorbent Materials for Scavenging of Oil and Toxic Organics: A Novel Approach towards Swachh Ganga Mission Debanjan Dey, Abhijit Hazra and Priyabrata Banerjee Durgapur, India	Advantages of Common Effluent Treatment Plant: A Critical Review. Sourav Suman a, Manash Gopeb, Rajnarayan Sahab Durgapur, India	Resource Recovery by Composting Municipal Waste: Successive Developments in Sri Lanka Anurudda Karunarathna, Thilini Rajapaksha ² Srilanka	A road map for faecal sludge Mng. in Puri with the co-existence of Sewerage and Septage project. Sarith Sashidharan ¹ , P. Nanda ¹ , B. Prakash ¹ , A. Ghosh ¹ , Elisha Patnaik ¹ Deepak Nag ¹ and Prasanta Kr. Mohapatra Odisha, India
17:30-17:40	Navigating Circular Economy	Enhancement of Methane Production in	Climate Change & Environment Protection	Waste to Energy for Sustainable Waste	Developing a composite ranking index for city	Waste water treatment and resource	Enriched Composting:A Sustainable	Association of Insanitary Practices and

	IconSWM – ISWMAW	Seminar Hall 1	Seminar Hall 2	Seminar Hall 3	Seminar Hall 4	Seminar Hall 5	Seminar Hall 6	Seminar Hall 7
17:00 – 18:55	TS1	TS2	TS3	TS4	TS5	TS6	TS7	TS 8S
	Smarajit Roy UK	Anaerobic Digestion of Food Waste Using Thermal Pre-treatment Teshan Udayanga Habarakada Liyanage ¹ , and S. Babel ¹ Thailand	Assessment of suitable biomedical waste treatment technologies using multicriteria decision making tool – Analytical Hierarchy Process M. Poornachander, T. S. Sasi Jyothsna and B. Chakradhar Hyderabad, India	Management Partha Das, Subho Samanta, Amit Ganguly WB, India	ranking based on comparative analysis of Swachh Survekshan ranking parameters Prayash Baruah Assam, India	circulation in the East Africa Community (EAC). Michael K. Koech Kaburu J. Munene Kenya	Strategy For Agricultural Waste Management Apurba Das and Rituraj Baruah Assam, India	Faecal Sludge Management with Drinking Water Quality: A Lesson Learnt from Sheohar District, Bihar M.N. Roy, Soumyajit Basu, Sohini Tarafdar & Debasri Mukherjee WB, India
17:40 – 17:50	Municipal solid waste management and waste-to-energy in the context of a circular economy and energy recycling in Asian Countries Anaya Ghosh, Sadhan Kumar Ghosh, Jyoti Prakas Sarkar, Bimal Das WB, India	A review of Operating parameters, pre-treatment process and digester design effect on biogas production in Anaerobic Digestion Amit Kumar Sharma ^{1*} , Ravi K Dwivedi ² , Bharat Modhera ³ MP, India	Inventorisation and waste valorisation of ETP sludge from pharmaceutical industry in a hazardous waste management and treatment facility Swathy Sadala ¹ , B. Chakradhar ¹ , T. Vijaya Lakshmi ² , Saikat Dutta ¹ , T. S. Sasi Jyothsna ¹ * TS, India	Co-processing of Waste in India Using Biomass. Rahul Baidya, Sadhan Kumar Ghosh Kolkata, India	GIS enabled studies on the Physiochemical and Biological Characteristics of Land and Waterbodies in and around MAJOR dumpsites in Kolkata Arkadeep Dutta ¹ #, Anyeasha Dutta ² , Debapriya Nandi ³ , Manua Banerjee ^{1*} , Haru K Das ¹ , Swarniv Chandra ^{4*} Kolkata, India	Kinetics and isotherm studies for the removal of Cr(VI) from synthetic hard water using FeO - Biochar composite. Nitin Khandelwal a , Jai Kishan Rajak a , Mahima Prasad Behera a , Gopala Krishna Darbha West Bengal, India-	Flow behaviour of Wastewater contaminants in compost with manufactured sand (M-Sand) under layered conditions P.Balaganesh, S Shiva Nandhini ² , K. Moneesh Kumar ² , S PoojaRagavi ² , S Amritha Shankar ² , M.Vasudevan ³ , N.Natarajan ⁴ India	Improving Faecal Sludge and Septage Management (FSSM) in Odisha through effective monitoring and evaluation Deepak Nag, Prithish Nanda, Bhawana Prakash, Ananya Ghosh, Elisha Patnaik, Sarith Sashidharan and Prasanta Kumar Mohapatra Odisha, India
17:50 –	Addressing the Sanitation value	Pyrolytic Conversion of	Synthesis of TiO ₂ using Calotropis		A Study on Swachh Bharat	The Impact of wastewater reuse	Processing food waste into	

	IconSWM – ISWMAW	Seminar Hall 1	Seminar Hall 2	Seminar Hall 3	Seminar Hall 4	Seminar Hall 5	Seminar Hall 6	Seminar Hall 7
17:00 -18:55	TS1	TS2	TS3	TS4	TS5	TS6	TS7	TS 8S
18:00	chain from a circular system perspective Ambarish Karunanithi, Tanvi Tomar Shubhagato Dasgupta Odisha, India	Polyalthia longifolia (Ashoka Leaves) at Different Temperatures for Production of Bio-oil and Biochar Singh, G. Ahmed, S. Acharya, H. D. Kawale, N. Kishore Assam, India	Gigantea for Visible light Excitation and Degradation of pollutants V Prashanth1, NeelancherryRemya 1,* Indian Institute of Technology of Bhubaneswar, Odisha, India	Leachate and Landfill Effect of Temperature on Adsorption of Municipal Solid Waste Leachate using Soil as an Adsorbent Dudam Bharath Kumar, S Jayalekhsmi Odisha, India	Mission in Industrial Town Rajgangpur Sarojini Sahu Odisha, India	from outfalls of River Ganga at Dakhineswar, West Bengal, India on the growth of Bitter Gourd (Momordica charantia L. Sayanti Kar, Indrajit Ghosh, Amitava Ghosh, Pritam Aich, Gupinath Bhandari Kolkata , India	compost pellets with extended shelf-life N. Srinivas, Raja P Pappu, A. Ram Sailesh3, K. Suresh Kumar4 and Sai S Nudurupati5 Visakhapatnam, India	
18:00 - 18:10	Adoption of Circular Economy – A Study of Eight SMEs in Visakhapatnam Sai S Nudurupati1, *, Raja P Pappu2, Balaji Vedula3, Mukesh Kondala4 AP, India	Review: Solid State Reactor For Leaf Litter Digestion Aastha Paliwal, Ashritha J, Hoysall N Chanakya Karnataka, India	A Decision Support System for Environment Friendly Sustainable Model of IT Service Sector Industries Ipsita Saha 1* , Amit Kundu 2 , Sadhan Kumar Ghosh 3 Kolkata, India	Environmental Crime Scene Investigation (ECSI) Challenges from Abandoned Waste Dumpsites: a case study from Mysore Hoysall Chanakya , Jai Prakash BS Karantaka, India	A Study On Swachh Bharat: Swachh Vidyalaya Awareness Among Secondary School Students Ganji. Dhana Lakshmi AP, India	Biosorption of Methylene blue dye from aqueous solution using Husk of Lathyrus sativus Indrajit Ghosh, Sayanti Kar, Subhanjali Chakraborty, Tamasha Chatterjee, Sudip Kumar Das Kolkata , India		
18:10- 18:20	Desperate Times Call for Desperate Measures - A Perspective of Circular Economy	Anaerobic digestion of yard waste: Effect of inoculum concentration	Phytoremediation potential of Weedy plants in and around Municipal Dump Yard	Assessment Migratory Behavior Of Pb And Ni Through Laterite Soil Used	Shared toilet services in dense urban areas through partnership with	Recent trends in waste water treatment and their Reuse – review of a		

	IconSWM – ISWMAW	Seminar Hall 1	Seminar Hall 2	Seminar Hall 3	Seminar Hall 4	Seminar Hall 5	Seminar Hall 6	Seminar Hall 7
17:00 -18:55	TS1	TS2	TS3	TS4	TS5	TS6	TS7	TS 8S
	Sowdamini Thatta, Raja P Pappu2, Sai S Nudurupati3 AP, India	and particle size of substrate on anaerobic digestion Ravi Kumar D*, Chanakya H N, Swati Bhatia, Dasappa S Karnataka,India	R. Garuda1, G. Daka2, Raja P Pappu3, and S. Namuduri AP, India	As Landfill Liner In Waste Containment Structure. T. Sarkara, K. Adhikaria, A. Adhikaryb, S. Palb West Bengal,India	micro entrepreneurs Bhawana Prakash and Sarith Sashidharan Odisha, India	case study. S. N. Roy,T. Senthil Vadivel, Sourja Ghoshand Swachchha Majumdar, Kolkata India		
18.20-18:30	Symbiotic Recycling Systems for Creating Sustainable Habitats Ganganarayan Das, Aditi Mishal, Biplab Patnaik Odisha,India	Noxious weeds as an alternative form of energy, an approach to environmental management Debasree Sinha, S. Balachandran, Shibani Chaudhury WB, India	Empirical Study on Embodied Energy consumption in housing projects Raja Sekhar Mamillapalli1 Sarbesh Mishra2 NICMAR Hyderabad TS, India		Assessment of Swachhata (cleanliness) in Ekamara Kshetra precinct using participatory approach Ashaprava, Mohanta, Rabi Narayan Mohanty Odisha, India	Pb (II) adsorption by various green adsorbents: adsorption studies, regeneration studies, scale up design and its effect on biological indicator. Abhishek Das, Basab Brata Dey, S K Das., India		
18:30 -18:40	Achieving Sustainability through Lean Manufacturing: A Critical Review Aneesh Kuruvilla1, Biswajit Mohapatra2, Aishwarya Dash3, Sushanta Tripathy Odisha, India	Heterogeneous base catalyzed biodiesel synthesis from waste cooking oil using Mesua ferrea linn seed shells Bisheswar Karmakar, M. Aruna, Sumona Show, Gopinath Halder WB, India			A robust bi-objective multi-trip periodic capacitated arc routing problem for urban waste collection using a multi-objective invasive weed optimization; Erfan Babae Tirkolae1, Alireza Goli, Maryam Pahlevan1, Ramina M Kordestanizadeh, Iran	Synthesis of dye sensitized monometallic-TiO ₂ photocatalyst and phenol degradation Amit Kumar Behera Odisha, INDIA		
18:40 -18:55	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer

10:15 - 11:45	28/11/2019 : Registration of Delegates Day 2 starts at 9 AM							
	2nd Parallel Break out Technical Sessions, Day 2, 28/11/2019 (Thursday)							

10:15 - 11:45	TS8	TS 9	TS 10	TS 11	TS 12	TS 13	TS 14	TS14S
	Decentralised MicroComposting for Odisha	Climate Change & Environment Protection	Waste Water	Smart Cities City Specific	E-Waste	Fly Ash	Hazardous Waste	Community Participation
	Chairs: Mr. Anil Kumar, IAS, Commissioner, BBMP, Mr. Manoj Kumar Gangeya, Director, MoEF, GoI;	Chair: Dr Aniruddha Mukhopadhyaya Co-Chair: Dr. Damodaran	Chair: Dr Shibani Chaudhury Co-Chair: Prof. G Prasanthi	Chair: Dr. Premakumara Co-Chair: Dr. D.K.Bera	Chair: Prof. Milan Pavlovisc Prof. Subarnalatha Devi Co-Chair	Chair: Mr Gopal Gupta, JK. Cement Co-Chair: Mr Boralkar, Geocycle	Chair: David O. Olukanni Co-Chair : JNTU, AP	Chair: T. K. Ghatak Co-Chair : Mahalaya Chatterjee
10:15 - 10:25	Session Keynote speech : Decentralised Micro Composting Mr. G. Mathi Vathan, IAS, Principal Secretary, H&UDD, Govt of Odisha, India	Role of GHG Emissions from Livestock Waste Contributing to Climate Change over India: A short review Bittu Ghosh , Prof. Dr. D.Bharath Kumar , Prof. Mohibullah Odisha, India	Removal of Dye effluent using activated carbon prepared from Rice Bran. Reena Roy, Dr. Ava Rani Phukan and Dr. Binita B. Kalita. Jorhat Assam, India	The Role of Developers and Citizens in Provisioning Sustainable Waste Management – A Case Of A High End, High Rise Apartment Complex Sukanya Dasgupta, Sudha Panda, Odisha, India	Innovative E-Waste Management Initiative Integrating Institutional Infrastructure Ar. Saharsha Naik, Ar. Suhel Makandar Maharashtra, India	Development of flexible pavement cost models for weak subgrade stabilized with fly ash and lime Satya Ranjan Samal, Malaya Mohanty Odisha, India	Basic Study of Hazardous Waste Management: Transportation, Treatment and Disposal Methods. Saptarshi Kar, Sumanta Banerjee West Bengal, India	Knowledge, Practice and Attitude of Community on Solid Waste Management. S. Giri Nepal
10:25 - 10:35	Session Keynote speech : Waste Management in cities in Japan - Mr. K. Onogawa, Director, CCET IGES, Japan	Bioindicators for monitoring of ambient air pollution and its bioremediation - A Review Shritama Mukhopadhyaya, Aparna Dharaa, Ratna Duttaa Kolkata, India	Defluoridation of wastewater using hap-coated-limestone in a continuous fixed-bed column. Rajkama Mohan, Robin K. Dutta. Assam, India	Solid Waste Management for Smart cities in India Faiz Ahmad Siddiqui and Prashant Bihar, India	E-Waste Management in India: Prioritization of Challenges Deepak Singhal, Apurv Singh, Amit Sutar, Sushanta Tripathy Odisha, India	Fly Ash Based Rubberized Geopolymer Concrete – Pathway For Ecofriendly Environment T. Senthil Vadivel and Manjula Karmakar WB, India	Treatment Storage and disposal Facility (TSDFs) for Sustainable management of Hazardous Wastes Swathy Sadala, Radhika Raghava, T. S. Sasi Jyothsna, B. Chakradha Hyderabad, India	Solid waste Management: Role of NGOs and CBOs P.M. Gawali, B.R. Honparkhe Maharashtra, India
10:35	Decentralised	Assessment of	Waste	Sustainable Wet	Studies On	Utilisation Of Fly	Approach for	Sustainability

10:15 – 11:45	TS8	TS 9	TS 10	TS 11	TS 12	TS 13	TS 14	TS14S
– 10:45	Composting at Bangalore Dr Sandhya Jaykumar, BBMP, Bangalore, India	Ground water Quality in the Komarthy watershed, Srikakulam, Andhra Pradesh, India K. Rambabu, g. Swathi, b. Anandagajapathi rajul, k. Laxminarayana3 A.P, India	Management and Clean Water from Aquatic Macrophytes infested Ponds in Rural,Bengal: A Social Study. Sreya Ghosh, Tapas Bagdi, Prof. Amit Hazra. Santiniketan. India	Waste Management Techniques adopted by Bengaluru - A Case study Sumangala Patil1, Anusha Inamdar, Dr. Jyothilakshmi R, Dr. Sandhya Jayakumar, Prajval. Jayakumar Karnataka, India	Pyrolysis Of Waste Printed Circuit Boards Aparna Ray Sarkar And Ankit Khettry WB, India	Ash As A Replacement Of Sand In Concrete For Sustainable Construction Sukamal Kanta Ghosh and Ankita Sikder WB, India	Indexing Site Selection Criteria and its Suitability for Treatment Storage and Disposal Facility Swathy Sadala, B. Chakradhar, T. Vijaya Lakshmi, Saikat Dutta, T. S. Sasi Jyothsna Hyderabad, India	Conscious Environmental Issues during Machiningof Hardened and Super Alloys Steel Rabinarayan Bag, Amlana Panda, Ashok Kumar Sahoo, Ramanuj Kumar Odisha, India
10:45 – 10:55	Decentralised Composting at Gated Community and home composting S. K. Ghosh, , Jadavpur University, India,	An Analytical Approach On Effective Selection Of Sustainable Materials In Construction By Environmental Management System (EMS) & Green Supply Chain Management Srinivas Vasama, K. Jagannadha Raob, V.Seshagiri Raoc, Vasu Kathi, TS, India	Waste water treatment of textile industry: Review. Suravi Konwar, Binita Baishya Kalita. Assam , India	Analyzing the potentiality of creating a zero-waste city in the urban area of Varanasi Awadhesh Kumar Jabalpur, India	Waste management and recycling of plasticized polyvinyl chloride cable (PPVC) and printed circuit boards (PCB) for roof membrane application, Ashish BaburaoJadhav, Bimal Das, Deepshikha Datta Odisha, India	Sustainable use of ferrochrome ash (FCA) in the production of ambient cured geopolymer concrete containing GGBFS, fly ash: An Industrial Solid Waste Management (ISWM) Strategy J. Mishra 1* , S. K. Das 2 , B. Nanda 3 , S. K. Patro 4 , S.M. Mustakim Odisha,India	Assessing the safe management of hazardous waste repository by laboratory scale contaminant transport experiments Nitin Kumar Khandelwal, Mithu Mondal, Gopala Krishna Darbha West Bengal,India	Kasa Kiosk: Your Clean Neighbourhood Partner, An innovative solution to reduce black spots in Bangalore city Naveen YS Bangalore, India
10:55 – 11:05	Waste analysis and characterization study of a hill station: A case study of Baguio City,	Waste Management Strategy of SME Sector towards Environmental	Conversion of Dairy effluent into Biofertilizer using Microbial Formulation.	Assessing the Awareness of Citizen on Municipal Solid Waste	Optimization and enhancement of metals bio-extraction from radio waste printed	Geopolymer Concrete Using Fly Ash And Rice Husk Ash - A Go Green Approach	Sustainable Disposal Strategy of Solid and Hazardous Wastes Generated	Awareness, Attitude and Practice of Household Waste

10:15 – 11:45	TS8	TS 9	TS 10	TS 11	TS 12	TS 13	TS 14	TS14S
	Philippines Marcelino N Lunag, Jr1, Jeffrey Z Duran1, Eugene D Buyucan2 Philippines	Sustainability Ipsita Saha 1* , Amit Kundu 2 , Sadhan Kumar Ghosh 3 Kolkata, India	Mandakini Gogoi1*, Shaon Ray Chaudhuri, Tripura, India	Management in the City of Kolkata: A Case Study Rahul Baidya1*, Sadhan Kumar Ghosh2 Kolkata, India	circuit boards using response surface methodology Asha B Sodha ^a , Shital C Thacker ^a , Devayani R Tipre ^a , Shailesh R Dave Gujarat, India	For Concrete Industry Bidhan Ghosh1 and T. Senthil Vadivel2 WB, India	from Oil and Gas Exploration and Production Prozesse Dilip Kumar Bera Delhi, India	Management among Rural Women Runamani Baro Assam, India
11:05 – 11:15	A Study of vehicle tracking and monitoring system in solid waste management in Indore city Archana Purohit, Mohini Jadon MP, India	Effect of cyclones on environment, structures, and lives of people of odisha: a case study on fani Padma Priyadarshini Parija and Purnachandra Saha Odisha, India	Utilization of Jute caddies for wastewater treatment. Lata Ramrakhiani, Swachchha Majumdar and Sourja Ghosh, Kolkata, India	Sustainable Integrated Solid Waste Management with Innovative approach at TMC Madhugiri, Tumkur (D) Karnataka Lohith D, Sowmya B R Karnataka, India	Kinetic Studies on FR-2 type Waste Printed Circuit Board (PCB) Pyrolysis Biswajit Debnath 1 , Aritro Das 1 , Ranjana Chowdhury 1,* , Sadhan Kumar Ghosh Kolkata, India	Ash@ Functional material: Utilisation of Waste Ash Materials for Sterling Applications Abhijit Hazra, Saikat Das, Naresh Chandra Murmu, Priyabrata Banerjee WB, India	Basic Study of Hazardous Waste Management: Transportation, Treatment and Disposal Methods Saptarshi Kar1, Sumanta Banerjee2 WB, India	Evolution of multidrug resistance community acquired uropathogenic bacteria in children, a burden to society Purabi Chhuria ; Ratikanta Tripathy; Niranjana Mohant; Abhinav Gaurav; Nirmal Kumar Mohakud Odisha, India
11:15 – 11:25	Household Organic Waste Management using Takakura Home Method P. Limpiteeprakan, S. Tubtimhin Thailand	Toxic Elements in waste: potential resources for colour glass. AK Mandal WB, India	A comparative study on the use of iron and aluminium as electrode-material for remediation of phosphate-contaminated synthetic wastewater by electrocoagulation Odisha.	Impact of Urban Sprawl on Public Health: An Analysis of Bhopal City Mr. Durgesh Kurmi M.P, India	Separation of metals and non-metals from EoL mobile circuit boards G. Ellamparathy, S. Das, S. I. Angadi*, M. K. Ghosh and S. Basu Odisha, India	Flyash based geopolymer brick with landfill soil Mohamed suhail thayyil, Renu pawels 2 Kerala, India	Morphological Characterization and Structural Alteration of Acid Treated Asbestos-containing Wastes for Gainful Applications Richa Singh 1 , Bakul Rao 2 and Shyam R.	Efficacy of training programme on knowledge and practice regarding Biomedical waste management among health personnel working at

10:15 – 11:45	TS8	TS 9	TS 10	TS 11	TS 12	TS 13	TS 14	TS14S
			Avishek Bakshi, Akshaya Kumar Verma, Aditya Kishore Dash Odisha, India				Asolekar Maharashtra, India	Community Health Centre, Khurda district A.D. Topno, S. Sonalika, T.R. Swain, Jharkhand, India
11:25 – 11:35	Discussion on issues and Challenges in ULBs in Odisha, Participating ULBs in Odisha will deliberate	Waste Burning & Energy Poverty in Rural West Bengal: A Micro Level study Anuradha Sarkar, Aman Ghosh, Arpita Hazra, Prof. Amit kumar Hazra WB, India	Sewage sludge management options for Navi Mumbai, India: A resource recovery perspective V. Singh, H. C. Phuleria and M. K. Chande Maharashtra, India	A study to assess the Households solid waste segregation and disposal behaviour among people of selected area, Niyati das ,Nibedita Mohanty Odisha, India	Electronic Waste: Current Scenario of Issues, Strategies and Management Saptarshi Kar, Sumanta Banerjee WB, India	Utilization of Coal Fly Ash Generated from Manufacturing and Power Generation Plants for Circular Economy Madhusmita Mishra Odisha, India	Sustainable management of hazardous fluoride contaminated waste and sludge: A brief review. Udayan Mondal, Somrita Nag, Harish Hirani, Asit Kumar Batabyal, Priyabrata Banerjee. Durgapur , India	
11:35-11:45		Question Answer	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer
11:45-12:00	Tea / Coffee Break - 11:45-12:00							

12:00-13:20	3rd Parallel Break out Technical Sessions, Day 2, 28/11/2019 (Thursday)						
	TS15	TS16	TS17	TS18	TS19	TS20	TS21
	Panel Discussion on Best Practices in Industries	Policy	Waste Water	Nanotechnology applicable to WM	Waste Water	SWM	Open for any discussion
	Chairs: OSPCB and President, Industry Association	Chair: Mr. Choudhury Rudra Charan Mohanty Co- Chair: Dr. Abas Basir	Chair: Dr. Sai Sudhakar Co- Chair: Dr. Sutripta Sarkar	Chair: Dr. David Olukum Co- Chair: Dr. Ojowuro	Chair: Dr. Lata Ramrakhiani Co- Chair: Dr. Sanjay Kr. Patra	Chair: Dr Michael Nelles Co-Chair: Mr. Situ Pattanaik	Any group can have brain storming discussion
12:00-12:10	Session Keynote speech : Waste Management and Resource Circulation initiatives in Industries in Odisha, Dr. Debidutta Biswal, IFS, Member Secretary, Odisha State PCB, Govt of Odisha, India	Adoption Of Micro Composting Process – A Modified Strategy – For Solid Waste Management In Urban Local Bodies Of Odisha Samir Kumar Panda, Sangramjit Nayak, Kalyan Kumar Rath, Odisha, India	Microbial Treatment of Dairy Waste Water for reuse. Tethi Biswas, Shaon Ray Chaudhuri, Tripura, India	Green synthesis of Ag/AgCl nanoparticles using leaf extracts of <i>Acalypha hispida</i> : its characterizations and evaluation of its disinfection's property for waste drinking water management Chirantan mukherjee, Dr. Mahua Ghosh Chaudhuri, Dr. Nipu Modak, Kolkata, India	Impacts of waste-water on arsenic pollution of groundwater in the western bank of river Bhagirathi in Bengal Basin, West Bengal, India., Ghosal, Soumyajit Basu, Utsha Dasgupta and P. K. Sikdar , Kolkata, India	Challenges in Solid Waste Management System in the Context of Climatic Change- Guidelines for Resilience of the System Aich A, Ghosh S K West Bengal, India	
12:10-12:20	To be coordinated by Odisha State Pollution Control Board Interested delegates from Industries and researchers are requested to participate in the discussion	Waste Monitoring and Management: Strategies, Innovations and Safety Considerations Prof AcSIR Lucknow, India	Study of Water and Wastewater Treatment at Hindustan Coca-Cola Pvt. Ltd. at Khurda, Odisha, India Sushree Sasmita, Dudam Bharath Kumar Odisha, India	Removal of Hexavalent Chromium using Agricultural waste based nanocomposite V. Chakraborty ¹ , P. Das ^{2,*} , P. K. Roy ¹ Kolkata, India	Pollutant removal kinetics of aerobic granular reactors operated with different inoculums and hydraulic retention times during diesel wastewater treatment. S. Ghosh , S. Chakrabort, Guwahati, Assam, India	Development of photocatalyst modified bitumen emulsion for the degradation of vehicular NOx Toufic Aslama, Byomkesh Mahanty, Jamirul Islamc, Sandip Mondal WB, India	
12:20-12:30	Acoustic Uses of Recyclable	Using a composite index to form a	Effect of Wastewater from Outfalls of River	Application of Nanoparticles on	Pertinent approach to assess the	Empirical investigation on	

	Materials Development of Industrial Noise Shield Family, Attila Tan, CEO of Akusztika Ltd, Hungary.	urban score card for basic infrastructure Services Sudha Panda Sukanya Dasgupta Odisha, India	Ganga on Morphological and Biochemical parameters of Bitter Gourd (Momordica charantia L.) in response to Low Molecular Weight Peptide(s) synthesis (3.0-0.5kDa) and Antioxidant activity study. Sayanti Kar1*, Indrajit Ghosh, Amitava Ghosh, Pritam Aich, Gupinath Bhandar, Kolkata, India	Anaerobic Digestion of Organic Waste for Sustainable Waste Management: A Review T. A. M. Abdelwahab*, M. K. Mohanty, P. K. Sahoo, D. Behera Odisha, India	performance of clay soil blended with Moringa Oleifera (Drum stick) dust as adsorbent of chromium (VI) ions from aqueous solutions. Chandrima Bhadra ,Kanchana Debnath ,Julee Kumari ,Swarnamoy Kundu , Saurabh Suman, Kolkata, India	Sustainable Solid Waste Management in India Homang Chetri, Raju Sharma Assam, India	
12:30-12:40	Best practices on Sustainability & Climate Change initiatives at Tata Steel BSL Limited ". Saroj K Banerjee, Chief Environment Tata Steel BSL Ltd.	Solid Waste Management: A Peep through the Effectiveness of Legislative Policies Nazmin Sultana,Rajinder Singh Assam, India	Adsorption of safranin dye from aqueous solution using coconut coir. Subhanjali Chakraborty1,2, Tamasha Chatterjee1,2, Indrajit Ghosh1,2, Sayanti Kar2, Sudip Kumar Das. Kolkata, India	Enhanced photocatalytic activity of mechanosynthesized heterostructured BiFeO3 nanocomposites in the degradation of organic pollutants and heavy metals from wastewater Moumita Mondal and S. K. Pradhan WB, India	Ceramic Membrane Fabrication and Utilization for Wastewater Treatment, N. Malik1, V. K. Bulasara, S. Basu, Bhubaneswar, India	Harnessing Environmental and Economic Benefits of Waste Management: Case of Indian Educational Institution Amit Kumar Jaglan Brajesh Kumar Dubey WB, India	
12:40-12:50		Disparity among Urban & Rural Solid Waste Management, Thilini Rajapakshaand Anurudda Karunarathna, Sri Lanka	Comparative batch mode study for adsorptive removal of fluoride from drinking water using treated and untreated laterite soil. Barnali Mandal*, Sattar Mallick Kolkata , India	Application of Nanoparticles for the Removal of Lead and Chromium from Waste Water: A Critical Review Saswata Sahu ^a , Mouni Roy ^b , Ipsita Som ^b and Rajnarayan Saha ^b WB, India	Sequestration of Brilliant Green Dye from Aqueous Solution on a Biomaterial made from Coriander Leaf: Kinetic and Isotherm Studies, Hemanta Mukherjee and Soma Mukherjee West Bengal, India	Role of Lipases in Waste Management: A Review Sutripta Sarkar*, Nabanita Roy WB, India	

12:50-13:00	Experience Sharing in running Biogas plant in India as an entrepreneur, Sreesha Mlayil	Impact of Municipal Solid Waste in Achieving the Targets of Sustainable Development Goals (SDGs) Chowdhury S R, Ghosh S K Kolkata, India	Bioattenuation of poly-aromatic compounds by an isolated bacterial strain: Process optimisation and toxicity analysis. Uttarini Pathak, Dalia Dasgupta Mandal, Papita Das, Tarkeshwar Kumar, Tamal Mandal WB, India	Facile preparation and characterization of a novel starch/ZnO Nano-composite for efficient adsorption of hexavalent chromium [Cr (VI)] from aqueous environment Saif Ullah Khan; Mohd. Farhan Khan ^b ; I. H. Farooqi ^a UP, India	Phytoremediation of Waste Water using Water Hyacinth (Eichhornia crassipes) of a Food Processing Industry in West Bengal: A Case Study, Md. Tahariaa, Susanta Podder ^b , Soumi Betala, Suparna Dhara, Soma Mukherjee, Kolkata, West Bengal, India.	Application of remote sensing and GIS technology in Solid waste management: a case study of Arambagh Municipality, Hooghly district, west Bengal, india. Haidar Ali Tarafdar, Debasish Das WB, India	
13:00-13:10	Discussion by other industries and researchers	Legal framework for the temple management-A case study of Shree Jagannath temple, Puri Sasmita Samanta, R K Nanda, P Rautaray Odisha, India	Emerging role of smart red light emitting fluoride sensors in real sample analysis: A short review Soumi Betal, Hemanta Mukherjee, Soma Mukherjee WB, India	Development of Nanosized Cellulose from Nahar Seed Buckles- An Approach Towards Solid Waste Management Suvangshu Dutta, Bedanta Kr. Borah Assam, India	Sorption of Zinc from Aqueous Solution by Chemically Modified Polymer Adsorbents P.S Jassal,* Priti Rani New Delhi	Waste Segregation At The Source In Germany- A Key Component Of Sustainable Waste Management Systems Michael Nelles, Jan Sprafke ¹ Isabell Eickhoff ¹ and Gert Morscheck Germany	
13:10-13:20		Current practices, future strategies, energy prospect, global warming potential and economic aspect of municipal solid waste: Himachal Pradesh Ankur Choudhary, Ashish Kumar*, Sudhir Kumar Ankur Choudhary HP, India	Adsorptive removal of Safranin dye from aqueous solution using Coconut coir and its activated forms Indrajit Ghosh, Sayanti Kar, Tamasha Chatterjee, Subhanjali Chakraborty, Sudip Kumar Das WB, India	Application of nanotechnology in waste management - An overview D. Bharathi*, K. Nagalakshamma, A. Suvarna Latha, S. Archana AP, India	Immobilization of Malachite Green from Wastewater on TNT surface Saismrutiranjana Mohanty ¹ , Sanjib Moulick ² , Samaresh Jana ¹ , Sanjoy Kumar Maji Odisha, India	SWM management practice in a tourism destination - The status and challenges: A case study in Hoi An City, Vietnam, Song Toan Pham Phu, Takeshi Fujiwara, Giang Hoang Minh, Dinh Pham Van, Vietnam	

			<p>Experimental investigation of Microwave and solar-photo assisted Fentons reaction for the Oxidative Degradation of Rhodamine B dye in wastewater</p> <p>Indrashis Saha WB, India</p>	<p>Study on identifying the Factors influencing green cosmetic products</p> <p>Akankshya Patnaik, Aishwarya Dash, Sushanta Tripathy, Akankshya Patnaik Odisha, India</p>	<p>Evaluation Of The Effect Of Anolyte Recirculation And Anolyte Ph On The Performance Of A Microbial Fuel Cell Employing Ceramic Separator</p> <p>S Bagchi, M.Behera Odisha, India</p>	<p>Waste analysis and characterisation study of a hill station: A case study of Baguio City, Philippines,</p> <p>M. N Lunag, Jr, Jeffrey Z. Duran, Eugene D Buyucan,Philippines</p>	
13:20 - 13:30	Question Answer	Question Answer	13.30-13.40 : Question Answer	Question Answer	13.30-13.40 : Question Answer	13.30-13.40 : Question Answer	Question Answer

15:50-17:20 **4th Parallel Break out Technical Sessions, Day 2, 28/11/2019 (Thursday)**

	TS 22	TS 23	TS 24	TS25	TS 26	TS 27	TS28
	SWM	Waste Water	Plastic Waste	Landfill & Leachate	Nanotechnology in WM	Waste Utilization-Agro Waste	Bio Energy
	Hall Manager						
	Chair: Dr. Farkas Hilda Co- Chair: Dr. Asit Aich	Chair: Dr P. K Mohapatra Co- Chair: Dr. C. L. Venkatarao	Chair: Dr Amit Ghosh Co- Chair: Prof. T. Mohanty, KIIT DU	Chair: Registrar, / Damodharan, SVU Co-Chair : Dr. Vasanthy	Chair: Prof. P. K. Parhi Co-chair: Dr. Sourya Ghosh	Chair: Dr. Rohit Kumar Co-chair : Dr. Arne Ragossnig	Chair: Dr Kirubakaran Co- Chair: Dr. Rahul Baidya
15:50-16:00	Sustainable Solid Waste Management: Principles and Practices in Punjab State (India) Amanjot Kaur Chandigarh, India	Evolution and Recent Research Trends in Constructed Wetland Mediated Environmental Remediation and Future Prospects: Review A. Biswas, S. Chakraborty WB, India	Study the Impact on Global Plastic Waste Trade: Challenges and Emerging Solutions to the China's Plastic Ban Anaya Ghosh a ,* and Sadhan Kumar Ghosh WB, India	Native bacteria from coalmines can help in bioremediation of in situ chromium contaminated sites Bomba Dam, Sohini Banerjee, Arijit Misra W.B, India	Application of nanotechnology for pharma industry Effluent treatment - a sustainable process development Ranjana Das, Chiranjib Bhattacharjee Kolkata, India	Utilization Of Agricultural Solid Waste For Production Of Alkaline Protease By Isolated Strain Alternaria Alternata TUSGF 1 Tapasi Polley, Uma Ghosh Kolkata, India	Solid-Liquid Extraction Of D-Limonene from Citrus Wastes for Optimal Biogas Generation Oluwatosin J. Ogundare and David O. Olukanni Nigeria
16:00-16:10	Waste Management in Kolkata - study of waste hotspots Sadhan Kumar Ghosh and Sayan Mukherjee WB, Kolkata	Adsorption of heavy metals from contaminated water utilizing carbon nanotubes - a mini review. Abhijit Saha, Sucharita Samanta, Sumona Show, Bisheswar Karmakar, Gopinath Halder. Durgapur, India	Comparative Study Of Biodegradation Between LDPE And Starch Incorporated LDPE Matrix Towards Application In Packaging Material Sucharita Samanta, Bisheswar Karmakar, Gopinath Halder WB, India	Odor Intensity and Health Risk of Scavengers in landfill site of WarinchamrapMunicipality, Ubon Ratchathani Province. N. Chakhamrun, A. Khotjun Thailand	Iron Oxide impregnated rice husk derived lignocellulosic nanobiosorbents for rapid adsorption of Arsenic: Statistical optimization of batch parameters using response surface methodology Bikash Kar Nath , Chayanika Chaliha , Eeshan Kalita Assam, India	From Waste to Wealth: Solid Waste Management for Enhancement of Agricultural Productivity in Himachal Pradesh, India Disha Thakur, Rishi Rana HP, India	Effect of ultrasonic pretreatment on anaerobic digestion of lignocellulosic waste: A comparative study Sagarika Panigrahi1, Brajesh Kumar Dubey WB, India
16:10-	Synergistic	Phycoremediation	Kinetic approach of	Selection of potential site	Photocatalytic	An effective use of	Biodiesel Production

	TS 22	TS 23	TS 24	TS25	TS 26	TS 27	TS28
16:20	Interaction among Supplementary Cementitious Materials (SCMs) for Sustainable Solid Waste Management Kaveti Anithamma ¹ , N. Niranjana Kumar ² , Dilip Kumar Behara ³ India	of wastewater and their potential in biomass and biodiesel production. Halifa S.M. H. Eldiehy, Doljit Borah and, Dhanapati Deka Tezpur, Assam	studying the effect of different reagents and catalysts for thermal degradation of high density polyethylene Sthitapragyan Patnaik, Achyut Kumar Panda Odisha, India	for urban landfills using GIS based multi-criteria decision making (MCDM) technique: A Review Dwarika Mohan Das ¹ , S. K. Raul ² and Kshyana P. Samal ³ Odisha, India	degradation of Malachite Green dye under solar light irradiation using ZnO and ZnO-TiO ₂ nanoparticles Pragyan P. Rath, Barsharani Priyadarshini, Shuvendu Singha, Suraj Tripathy, Sanjib Moulick, Tapas Ranjan Sahoo Odisha, India	an agricultural waste as Silpozz in concrete L.Sabat, S. Dey, C. K. Kundu Odisha, India	from foodwaste using NaOH as Catalyst Nibedita Sarkar, Pradip Chatterjee Amit Ganguly Durgapur, India
16:20-16:30	Management of solid waste - An overview D. Bharathi, B. Hemavathi and A. Shobha Rani AP, India	Riddance of surfacet fluoride from water with the help of conventional eco-friendly waste materials: A viable solution to get rid of fluoride adulteration. A. Mondal, S. Maity, J. Chakrabarty, P. Banerjee. Durgapur, India	Comminution of Poly(vinyl chloride) (PVC) cable waste for the generation of micro-powder structures Sunil S Suresh*, Omdeo K Gohatre, Jaidev K, Manoranjan Biswal, Smita Mohanty, and Sanjay K Nayak Odisha, India	Anaerobic co-digestion of landfill leachate and sewage sludge: Role of substrate ratio N. Anand, Srinjoy Roy, P. Sankar Ganesh Hyderabad, India		Sustainable agriwaste management at farm level through self-reliant farming system S.K. Rautaray*, S. Raychaudhuri, R. Dubey, S. Pradhan, S. Mohanty, R.K. Mohanty and S.K. Ambast Odisha, India	Effect of extrusion on the bioenergy production from organic fractions of Municipal solid waste V. Mozhiarasi C. Speier D. Weichgrebe S.V. Srinivasan TN, India
16:30-16:40	Solid Waste Management in the Southern Fringes of Kolkata Dipankar Bhattacharjee WB, India	Application of economically viable and environmentally benign biotechnologies in the realm of waste water remediation.	Reinforcement of unsaturated polyesters using jute natural fiber and egg shells as filler to refine the mechanical properties Rakhi Pal, Bidisha	Municipal Solid Waste Dumpsite Management for an Urban Local Body - A Case study R. Radhika, B. Chakradhar, M. Anji Reddy, Saikat Dutta, T S Sasi Jyothsna* Hyderabad, India	Biomedical Waste Biomedical Waste Management: Odisha Perspective B.K.Sahu, Monalisha Kanar, Swagatika Patra Odisha, India	Fibres from Agricultural Wastes of Banana Cultivation: A Review on Sustainable Generation of Wealth for Textile Industry from Waste.	Hydrolysis of age old Rice Straw pretreated with tartaric acid in the production of bio-ethanol A Mukherjee ¹ , T Mandal ² , A Ganguly ^{3*} , and P K

	TS 22	TS 23	TS 24	TS25	TS 26	TS 27	TS28
		S. Bej, R.Das, H. Hirani, P. Banerjee. Durgapur , India	Sarangi,1Deepshikha Datta Odisha, India			Lipsita Saha, Aniruddha Mukhopaddhayay and Debasish Das Kolkata, India	Chatterjee3 Durgapur, India
16:40-16:50	Challenges to Ensure Healthy Living through Sanitation and Hygiene Coverage: Study on Narail District, Bangladesh Bangladesh	An advancement towards systematized management of arseno-sludge engendered during dearsenification of ground water resources: A systematic case study. Suparna Paul, Anindya Roy, Harish Hirani, Naresh Chandra Murmu and Priyabrata Banerjeea, Durgapur , India	Optimization study on the effect of different plastic films on municipal solid waste by response surface methodology Bidisha Sarangi,1Shaikh Raj, Amrit Pritam Rout, Deepshikha Datta, Bimal Das Odisha, India	Natural coagulants from Dillenia indica seeds for removal of persistent organic pollutants in landfill leachate Agamuthu P., Aziz A., Hassan, A , Fauziah S. H. Malaysia	Occurrence, sources of antibiotics in drug residues along with thier conventional treatment techniques: A critical review Nadeem Ahmad Khan1, Sirajuddin Ahmed1, Izharul Haq Farooqi2, Saif Ullah Khan2, Aastha Dhingra1, Xanel Vecino3, Mustafa Al Aukidy4 India	Agro waste for doubling income of Assam Samikhya Bhuyan, Smita Bhuyan Assam, India	Strategic Niche Management in biomass energy supply chain in North East India Mridul Dutta Assam, India
16:50-17:00	Innovative Solid Waste Retentive Structures for Solid Waste Generated In Goa Leonardo Souzaa* , Purnanand Savoikarb and K G Gupthac Goa, India	Microbial Fuel Cell integrated Constructed Wetlands: Innovative Wastewater Treatment System with Simultaneous Electricity Generation and Other Futuristic Applications Supriya Gupta and Asheesh Kumar Yadav	Comparative and recycling analysis of waste PVC flex/banner with virgin PVC material Omdeo K. Gohatre ^{1*} , Jaidev K. ² , Sunil S. Suresh ³ , Manoranjan Biswal ⁴ , Smita Mohanty ⁵ Odisha, India	Settlement Analysis Of Municipal Solid Waste In Non-Engineerd Landfill In Himachal Pradesh Disha Thakur1, Rajiv Ganguly*1 Ashok K. Gupta1 H.P, India	Enhancing Knowledge & Awareness among ICU Nurses Regarding Bio-Medical Waste Management in PBMH, Bhubaneswar A. Panda 1 , S. Nayak 2 , P. Kumari 3 , C. Pradhan Odisha, India	Utilisation of industrial and agricultural waste as partial replacement for sand - a review Snehal Waingankara, and Purnanand Savoikar Goa, India	Agricultural waste to biogas energy: Design and simulation using the Anaerobic Digestion Model No. 1 Preseela Satpathya*, Frank Uhlenhutb, Chinmay Pradhana Odisha, India

	TS 22	TS 23	TS 24	TS25	TS 26	TS 27	TS28
		Odisha, India					
17:00 - 17:10	Sustainability of Waste Management in Urban Local Bodies(ULB) Narciana Jesmin WB, India	Application of Groundnut Shell for Waste Water Treatment. D. Ghosal, V.K.Singh, A. Singh Bhubaneswar. India	Turning Waste to Product- Plastic Waste Recycling in the Rohinya Camps, Cox Bazar Nashid Mumtaz , Iffat Khan, Kazi Rashed Hyder, Hossain Ishrath Adib Bangladesh	Estimation of Landfill Gas Emission and Energy Recovery Potential from an Open Dump Site of Kolkata Using LandGEM and MTM Model Shri Babul Das 1, Dr. Tumpa Hazra 2 Kolkata, India	Knowledge, Attitude, and Practices on Biomedical Waste Managementamong Professionals in a Tertiary Care Hospital, Bhubaneswar, Odisha Kulumina Das, Minati Das Odisha, India	Problems and Prospects of Tea Industry in India Raktim Dasgupta 1 , Sadhan Kumar Ghosh Arup Ranjan Mukhopadhyay 3 Kolkata, India	Green Algal Waste: A Potent Source of Biofuel T. Chandrasekhar*, D. Varaprasad, N. Raga Sudha and K. Paramesh AP, India
17:10 - 17:20	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer
17:20- 17:35	Tea / Coffee Break & Networking						

17:35-19:00 **5th Parallel Break out Technical Sessions, Day 2, 28.11.2019 (Thursday)**

	TS 29	TS 30	TS 31	TS32	TS33	TS34	TS35
	Plastic Waste	Industrial Waste	Waste Utilization	Landfill & Leachate	Waste Water	Bioenergy	Open House for discussion
	Hall Manager :						
	Chair: Prof. Benu Gopal Mohapatra Co-Chair: KIIT	Chair: Suresh Mahapatra, Co-chair: Mr. S Patil, Kesoram Ind. Ltd.	Chair: Me. Anbendren Pillay, Co-Chair: Dr. Monish, IIMT	Chair: Prof. S Mohanty Co-Chair : Prof. Sudhakar, N	Chair: Prof. Tapas Das Co-Chair :Prof. Francesco DiMaria	Chair: Dr Sandhya Babel Co-Chair: Dr Milan Pavlović	
17:35-17:45	Effect of awareness regarding plastic uses by leaders on public: a pilot survey in a gated community Magna Manjareeka, T. Sundar Sahoo, Krushna C Sahoo	Alkaline pretreatment of lignocellulosic waste: A review Meghashri KL, Ravi kumar D* and HN Chanakya, Bangalore, India	A recent development in utilization of waste materials as green corrosion inhibitors for the protection of metal substrates exposed in corrosive environment Manilal Murmua, Sirsendu Senguptaa, Sukdeb Mandala, Naresh Chandra Murmua and Priyabrata Banerjee Uttar Pradesh, India	Ecological Condition of Illegal Landfills in Some High Mountain Regsions of Georgia N. Buachidze, N. Dvalishvili, Kh.Chikviladze, Sadhan Kumar Ghosh Georgia	Wastewater as an Option for Algal Carbon Sequestration to Mitigate Climate Change. Afreen Aman, H. N. Chanakya, Bangalore, India	Production of Bioethanol from Fungal Mash Pre-treated Food Waste Arpita Ray, Rajesh R. Dash Odisha, India	
17:45-17:55	Plastic-Semiconductor Composite Films: Solar Photocatalytic and Microbial Degradations in Series Parbatee Nag, Aniruddha Mukhopadhyay, Amrita Debnath, Anirban Roy, Sampa Chakrabarti Kolkata, India	End of life of vehicle Management in India, France and Canada Sadhan Kumar Ghosh and Sourav Shaw Kolkata, India	Fertilizer Plant Phosphogypsum: Potential Applications in Agriculture and Road Construction Durgasi Hariprasad, Harish Chandra Singh, Pranab Bhattacharyya and Ranjit Singh Chugh Odisha,India	Landuse/Landcover change analysis using geospatial technology and chronosequence estimation of soil organic carbon in naturally reclaimed overburden dump soil in an opencast mine of Raniganj coalfield area, West Bengal Surajit Chakraborty, Rohit Basu Dhar, Pradip K.Sikdar, Suranjan Sinha W.B, India	Greywater Recycling and Household Water Security in India - Mini Review Himanshu K Khuntia1*, H.N. Chanakya1, Naveen Janardhana, Bangalore ,, India	Biogas Production Potential of Tobacco Wastes and Rejects Sreesha Malayil*, HN Chanakya Karnataka, India	
18:05-18:15	New ideas and working practices as economically	Integrated Industrial Solid Waste	Experimental Investigation on Geopolmer Concrete	Assessment of leachate generation from slag bank of steel plant and	Wastewater treatment and recycling in a bus	Revisiting Biogas from Biomass Residues and Yard	

	TS 29	TS 30	TS 31	TS32	TS33	TS34	TS35
	profitable Case Studies Mr Jozsef KOVACS Hungary	Management Through Sustainable Green Construction Practices: Brief Case Studies Of Local Steel And Mining Industry At Keonjhar R.S Krishna, J. Mishra, S. Meher, S. Das, S.M. Mustakim Odisha, India	with low density aggregate Sanghamitra Jena, Ramakanta Panigrahi, Subrat Kumar Padhy Odisha, India	contamination of ground water at Waria, West Bengal, India Anurag Tripathi, Ujjal Mal, Kalyan Adhikari W.B, India	depot – a case study from Bangalore. Sharath Chandra M1, N Niveditha1, H S Puttanna2, H N Chanakya 1, Lakshminarayana Rao, Bangalore ,, India	Wastes: Hydrogenotrophy Aastha Paliwal, Hoysall H.N Chanakya Karnataka, India	
18:15–18:25	Pyrolysis of Packaging Waste: Effects of process parameters on product yields and characterization of products Atun Roy Choudhury, Srinivas Kesavarapu, Prasenjit Mondal TS, India	Cadmium Bioremediation Potential Of Some Indigenous Bacteria Isolated From Sediments Of Different Industrial Zones Of West Bengal Arnab Ghosh, Pardita Dutta, Debarati Halder, Malini Basu West Bengal, India	Comparative property assessment of compression moulded starch based film with non degradable packaging film Purbasha Rout, Sumit Mahato, Deepshikha Datta, Gopinath Halder Odisha, India	Biological Remediation of Reverse Osmosis Reject Generated from the Treatment of Organic Leachate, A Case Study at Hyderabad Integrated MSW Limited Atun Roy Choudhury, Konda Durga Sindhu Sree, Surya Narayan Dash, TS Sasi Jyothsna Hyderabad, India	Assessment of Turbidity as an indicator of wastewater influx: A case study from the Indo-Gangetic Plains. Aditya Sarkar , Shashank Shekhar Kolkata India	Assessment of Biogas Generation Potential of Mixed Fruits Solid Waste David O. Olukanni, Gbemisola I. Megbope and Oluwatosin J. Ogundare Nigeria	
18:25–18:35	Marine Plastic Pollution in India: Impact and Measures Vicky Shettigondahalli	Utilization of Industrial Waste in Normal Concrete: A Review	Properties of Bituminous Mixes with EAF Steel Slag Containing Crumb Rubber Modified Binder Madhu Lisha	Isolation of lignin degrading bacteria: A initial step for lignin and other recalcitrant waste bioremediation Binoy Kumar Show,	Treatment efficiency assessment of various Vertical Flow Constructed Wetlands comprising different medias to	Kinetic modeling of biogas production from organic fractions of Municipal solid waste and projection of energy and exergy	

	TS 29	TS 30	TS 31	TS32	TS33	TS34	TS35
	Ekanthalu, Edward Antwi, Satyanarayana Narra, Michael Nelles, Germany	Srishti Saha, Tribikram Mohanty, Bitanjaya Das Odisha, India	Pattanaik, Rajan Choudhary, Bimlesh Kumar Assam, India	Shibani Chaudhury, S. Balachandran WB, India	treat Industrial Wastewater. Paulami Saha and Yatri Chavdaa Gujarat, Gandhinagar, India	potentials Mozhiarasi V, Benish Rose P M, Elavaar Kuzhali S M, Kanyapushpanjali S, Balakumar R, Weichgrebe D, Srinivasan S V TN, India	
18:35-18:45	Flexible Pavements: An Effective Sink for Waste Plastic Disposal Amit Kumar Das Gaurav Udgata Asish Kumar Pani Odisha, India 18:45 -18:55 Antecedents of waste reducing and recycling behaviour: An Integrated Model. Annamdevula1, *, S. S. Nudurupati2 and R. P. Pappu AP, India	Eco-Friendly Utilization of Industrial Sludge as a Building Material: A Study of Steel Industries in Tarapur Region, Maharashtra Tarang Jobanputra, Vaidik Gajera, Gaurav Kapse Gujarat,India	Prospective of organic wastes application as blended soil amendments in rice fields Madhumita Ghosh and Ashalata Devi Assam,India	Magnetic susceptibility and electrical conductivity as a proxy for evaluating soil pollution: a case study in the Kamarhati Municipal Waste dumping area of North 24 Parganas, West Bengal Debapriya Nandi, Akshay, Sayan Debbarma, Sauvik Bose, Soumini Chaudhury and Rina Bhattacharya WB, India	Development of novel ceramic membranes with enhanced surface properties for sustainable treatment of industrial wastewater, Sourja Ghosh Kolkata India	Optimization of biogas plant performance: A case study, Gerard irudaya Santiago.S, Shiva.M, Vinothkumar.T, Balaji.S, Supochang Walling, TN, India	
18:45-19:00	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer
END OF 2ND DAY							

10:15-11:30							
Technical Session 3rd Day, 29/11/2019							
6 th Parallel Break out Technical Sessions, Day 3, 29/11/2019							
	TS 36	TS 37	TS 38	TS39	TS 40	TS 41	TS42
	SWM	Waste Water	Industrial Waste	Waste Utilization	Bio Medical Waste	E-WASTE	C&D
	Hall Manager						
	Chair: Dr. P Agamuthu Co-Chair :Dr. Kshyanaprava Samal	Chair : Dr. Manoj, MoEFCC Co-chair : Dr. Padmavati	Chair : Dr. K. V. Reddy, Ultratech Cement Co-chair : Mr Jozsef KOVACS, Hungary	Chair: Saroj K. Banerjee, Tata Steel BSL. Ltd Co-Chair: Prof. P. Saha, KIIT DU	Chair: Dr. C. L. Venkatarao	Chair: Dr. R Vardarajan Co-chair : Mr. Attila Tan,	Chair: Prof. B. Das, KIIT DU Co-chiar : Dr. D.K. Bera
10:15 – 10:25	Health Risk Index Development of Municipal Solid Waste by Central Composite Design Krishna Kumar Singh ¹ Dhaval Mehta ² Rakesh Chandra Vaishya UP, India	Design Of Remote Controlled And Unmanned Water Samplers For Stps And Sewage Fed Lakes Chaitali Shah, Seema Sukhani, Chanakya HN Bangalore India	Organophosphorous Pesticide Residues in Two Agricultural Soils and Vegetables Followed by Adsorption Studies Banani Biswas, Moumita Mukherjee, Monami Haque, Hemanta Mukherjee, Soma Mukherjee West Bengal, India	Utilization of Waste Generated at Religious Establishments for Energy and Nutrient Recovery Gaffer Ahmed, Dipam Patowary, Juri Chetia, DC Baruah Assam, India	Bio medical waste management - A dental overview Anjana raut, p. Arun kumar, 3. A. Nivya sri, Shreya raikar Odisha, India	Enhanced metals extraction from waste cell phone PCBs by acids and metabolites generated by iron oxidizing bacteria. Thacker S.C., Sodha A.B. ¹ , Tipre D.R. ¹ and Dave S.R. ² Gujarat, India	Trends in management of Construction and Demolition Wastes: A review Manipuspak Hazarika, Ankita Patowary Girijananda Chowdhury Assam, India
10:25 – 10:35	Chemical Recycling of Bio-based Polymers for Sustainable Production of Lactate Esters Pranav Majgaonkar ¹ , Ronny Hanich Germany	Lagoon Cascade Treatment of Sewage for creating Aesthetic Urban Water Bodies and Bird Preserves. Seema Sukhani, Atharva Ekatpure, Gautami Salunke and HN Chanakya. Bengaluru, India	Insights into the role of aluminum in photocatalytic degradation of 17 β -estradiol using aluminum doped zinc oxide Abhradeep Majumder, Ashok Kumar Gupta West Bengal, India	Performance Analysis Of Sustainable Concrete Mixes Using Waste Slag Sudipta Ghosh, Ipsita Mohanty Odisha, India	Proper Management And Handling Of Hospital Waste: The Need Of The Hour Kathryn Rai And Rajinder Singh Assam, India	Optimization and enhancement of metals bioextraction from radio waste printed circuit boards using response surface methodology. Asha B Sodha ^a , Shital C Thacker, Devayani R Tipre ^a , Shailesh R Dave ^b Gujarat, India	Clean C&D waste material cycles through BIM-enhanced building stock examination practices: An Austrian case study M. Rašković, A.M. Ragošnić, K. Kondracki, M. Ragošnić-Angst RM, Austria

	TS 36	TS 37	TS 38	TS39	TS 40	TS 41	TS42
10:35 – 10:45	State of Waste Management in Developing Countries: A case study on potential benefits of Introducing Integrated Solid Waste Management Approach in Negombo City, Sri Lanka K. Singh, D.G.J Premakumara, K. Onogawa, A. Karunarathana, T. Rajapaksha Japan	Water quality assessment of Bellandur Lake in comparison with typical partially treated sewage. Reshmi Das, Lakshminarayana Rao, HN Chanakya. Bengaluru, India	A Study of Adsorption by using Langmuir Isotherms for CV dye from Novel Poly (AAc-NaAlg-SH) superabsorbent hydrogels R. Singhal, S.Agnihotri Kanpur, India	Conservation Of Natural Sand By Using Byproduct Of Stone Quarry And Waste Plastic As Fine Aggregate For Improving Durability Of Concrete Boskey V.Bahoria, Vikrant S.Vairagade Nagpur, India	Biomedical waste management: A case study of District Head Quarter Hospital, Jajpur, Odisha Saumyasree Pradhan Odisha, India	Characterisation of obsolete mobile phone printed circuit boards for precious metals and energy recovery Mohan Annamalai, Kalaichelvan Gurusurthy TN, India	Properties Of Concrete At Elevated Temperature Using Waste Hdpe As Fibre And Copper Slag As Mineral Admixture Marabathina Maheswara Rao, Sanjaya Kumar Patro Odisha, India
10:45 – 10:55	Urban Flood Induced Solid Waste Management in Some Metropolitan cities- An Overview Tanmoy Majumder , Paromita Chakraborty, Bitanjaya Das Odisha, India	Dye removal from aqueous solution by adsorption on low cost activated carbons. Selvakumar Muniraj1, Tamilselvi Duraisamy1, Swabna Vivekanatham2, Praveenkumar Dharmaraj1 and Vasanthi Muthunarayanan. Tiruchirappalli Tamil Nadu, India.	Utilization of Industry Solid Waste into the Concrete and its Management V.S.Vairagade, P. T. Dhorabe, A.R.Tenpe, V. R. Agrawal, Rakesh Patel Bhopal, India	Fabrication of sustainable fired building bricks using solid-wastes SK S Hossain, P.K. Roy Varanasi, India	Occurrence, sources of antibiotics in hospital wastewater along with conventional treatment techniques: A critical review; Nadeem Ahmad Khan1, Sirajuddin Ahmed1, Izharul Haq Farooqi2, Saif Ullah Khan2, Aastha Dhingra1, Xanel Vecino3, Mustafa Al Aukidy, India	Studies on leaching characteristic of e-waste for metal recovery by electrochemical process Debarati Dasa, Siddhartha Mukherjeeb, Mahua Ghosh Chaudhuria WB, India	Development of eco-efficient and cost effective concrete using recycled aggregate and ground blast furnace slag Rajib Kumar Majhi 1 , Amar Nath Nayak 2 Odisha, India

	TS 36	TS 37	TS 38	TS39	TS 40	TS 41	TS42
10:55-11:05	<p>Trajectory Planning for Autonomous Vehicles and its implementation in effective Waste Management</p> <p>B.Guin^{1*}, T.K.Naskar, N.Modak Kolkata, India</p>	<p>Assessing the efficiency of some polymeric coagulants in utilization of Spent Tea Leaves (STL) as the source of natural dye in quality control of environment.</p> <p>Ritwija Bhattacharya, Alokesh Mridha, Richa Sen, Pritha Bhattacharjee, Aniruddha Mukhopadhyay and Debasish Das. Kolkata, India</p>	<p>Impacts of Sukinda Chromite Mine-Waste Drainage in Soil and Bottom Sediments of Dhamsal Nala, Odisha</p> <p>Apurba Ratan Ghoshand, Niladri Sekhar Mondal West Bengal, India</p>	<p>Conservation Of Natural Aggregate By Recycling Rubber Scrap Tyre And Steel Scrap For Sustainable Concrete</p> <p>Rakesh Patel, Vikrant S.Vairagade, Boskey V. Bahoria Nagpur, India</p>	<p>Recent trends in disposal and treatment technologies for hospital effluents- A Critical Review,</p> <p>Nadeem a khan¹, aastha dhingra¹, Sirajuddin Ahmed¹, I H Farooq, Aligarh, Delhi, India</p>	<p>Strategies to manage e-waste approaches: A comparison of a global overview to the Indian scenario</p> <p>Abantika Sengupta, Parthiba Chakraborty Italy</p>	<p>Occupational safety and health in construction sector: An Indian Perspective</p> <p>Sasmita Samanta Jyotiranjan Gochhayat Lingraj Behera Odisha, India</p>
11:05-11:15	<p>A Review on Waste Management of Lingaraj Temple, Bhubaneswar</p> <p>Satyam Jyoti Odisha, India</p>	<p>Simultaneous nitrification and denitrification coupled with phosphorus removal from greywater using sequencing batch reactor</p> <p>Kumari Priyanka^{1*}, Manaswini Behera¹, Remya Neelancherry¹ Odisha, India</p>	<p>Ratio Derivative Spectrophotometric Monitoring of Two Pharmaceuticals in their Binary Mixture</p> <p>Subhankar Pathak, Suparna Dhar, Monami Haque, Soma Mukherjee West Bengal, India</p>	<p>Influence Of Functionally Graded Region Inground Granulated Blast Furnace Slag (GGBS) Layered Composite Concrete</p> <p>Sangram.K.Sahoo¹, B.G.Mohapatra¹, S. K. Patro² Odisha, India</p>		<p>Assessing the generation and management of E-waste in India: a review</p> <p>Abhijit Hazra, Mohd Azhar hasan ansari, Naresh Chandra Murmu, Priyabrata Banerjee WB, India</p>	<p>Experimental Investigations on Recycled aggregate Concrete to produce eco friendly and economical self interlocking masonry blocks.</p> <p>Ganesh C. Chikute¹, Dr. I. P. Sonar² Maharashtra, India</p>
11:15-11:30	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer	

3rd Day, 29/11/2019 : 11:30 – 11:45 Tea / Coffee Break & Networking

11:45 – 13:30 7th Parallel Break out Technical Sessions and Panel Discussions, DAY 3, 29/11.2019 (Friday)

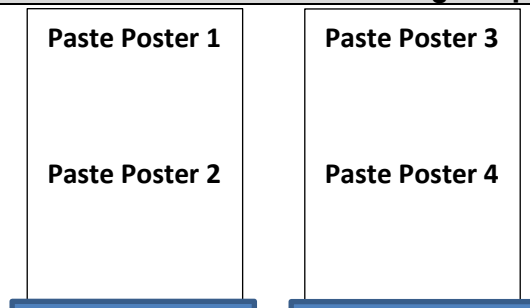
	TS 43	TS 44	TS 45	TS46	TS 47	TS48	TS49
	Coummunity Participation	Waste Water	Industrial Waste	Waste Utilization	Waste Water	Model	Bioenergy
	Chair : Prof. Avijit Mitra Co-Chair : Ms.NasidMumtaz	Chair : Prof. S K Das Co-Chair :	Chair : U V Parlikar Co-Chair :	Chair : IIMT Co-Chair :Prof. S Nanda, KIIT DU	Chair : Prof. T. Das, USA Co-Chair : Prof. S. Moulick, KIIT DU	Chair : Anuruddha Mukhopadhyay Co-Chair :KIIT	Chair : Dr. Asit Aich, ISWMAW Co-Chair : Dr. Sutripta Sarkar
11:45 – 11:55	Prarambh: A city-wide campaign to transform waste management practices through Educational Institutions Lata Ghanshamnani Maharashtra, India	Study of macrophyte and dolochar in hybrid vermifiltration system for nutrient removal of domestic wastewater. Rajat C. Pundlik1, Om Prakash Dehury2, Rajesh R. Dash3, Puspendu Bhunia4 Bhubaneswar, Odisha,	Production Of Composite Sheets From Industrial Solid Wastes Under Total Quality Management (TQM) Principles N. R. Bose, S. Roychowdhury, Kazi Ezabul Khalid West Bengal, India	Effect of process parameters on lipid yield extracted from foodwaste through soxhlet extraction method Nibedita Sarkar1, Budhapriya Gautam2, Pradip K Chatterjee1, Amit Ganguly1 WB, India	Effect of Heavy Metal Containing Wastewater on Plankton Diversity in a Freshwater Lake Ecosystem at Sahebbundh, Purulia, West Bengal, Subhayan Dutta1*and Aniruddha Mukhopadhyay, Kolkata, India	ANN modelling on the adsorptive removal of phenol using biological and industrial waste materials Ashanendu Mandal, Sudip Kumar Das Kolkata, India	Investigations on Process Development for the Anaerobic Digestion of Desiccated Coconut Industry Effluents Himanshu K Khuntia*1, Naveen Janardhana1, H.N. Chanakya1, Naveen K Vaidya1 Karnataka
11:55 – 12:05	Multi-layered Plastic Management in Educational Institute Ambily Adithyan, Program Maharashtra, India	A review on hydrodynamic parameters of inverse fluidized bed bioreactors for treating industrial wastewater Challa Mallikarjuna Rajesh Roshan Das Bhubaneswar, Odisha	Risk analysis in the production process of innovative detoxification plant for ELV Milan Pavlović, Nikola Komati , Danijela Tadić , Bayoumi Hamuda Hosam Serbia	Application of Treated Mixed Fruit Wastes in Soil Stabilization David O. Olukanni1, Chukwume G. Ijeh1 and Adeniyi S. Aremu2 Nigeria	Evaluation of Heavy Metal Pollution Index (HPI) for Ground Water in Tricity, Rana, Rishi1, Rajiv Ganguly*1, Ashok Kumar Gupta, Solan, Himachal Pradesh, India	Neuro-genetic modeling for the biosorption of Cu(II) ions from aqueous system N. Bar, B. Singha, S. K. Das Kolkata, India	Biogas potential of kitchen waste at Visva-Bharati, Santiniketan Aman Basua, Ankita Lahaa, Indranil Bhuia, Anita Biswasa, Krishanu Sarkarb, Shibani

	TS 43	TS 44	TS 45	TS46	TS 47	TS48	TS49
							Chaudhurya and Srinivasan Balachandrana
12:05 – 12:15	<p>Food Waste Management and Potential Interventions at Education Campuses in India: A Case Study of Halls of Residence of Indian Institute of Technology Kharagpur, West Bengal</p> <p>Amit Kumar Jaglan, Hari Bhakta Sharma, Brajesh Kumar Dubey, Ranbir and Chitra Gupta WB, India</p>	<p>Removal of dyes from industrial wastewater using coagulation by Potassium Aluminium Sulphate [KAl(SO₄)₂].</p> <p>Shaikh Raj, Bidisha Sarangi, Deepshikha Datta Durgapur, India</p>	<p>End of Life of Vehicle - A Status Review</p> <p>Sadhan Kumar Ghosh 1, Sagnik Chowdhury, AsishTripathy, Sovan Sahoo, Niladri Sekhar Barma, Abhishek Bhardwaz, Sayan Samanta, Sourav Shaw Kolkata, India</p>	<p>Electricity Generation in Earthen Microbial Fuel Cell during Treatment of Volatile Fatty Acid Rich Leachate Obtained from Hydrolysis of Kitchen Waste in Leach Bed Reactor</p> <p>Rishi Gurjar1*, Manaswini Behera1 Odisha, India</p>	<p>Assessment of Physic-chemical quality and Heavy metals status in some selected drains discharge into the lower stretch of Hooghly River.</p> <p>Lokenath Chakrobortya, Susmita Goswamib, Sandip Mondal,Subir Kumar Nag Durgapur, West Bengal, India</p>	<p>Achieving Consistency of Judgment Matrix in Analytical Hierarchy Process</p> <p>Bhupendra K. Sharma1,*, Munish K. Chandel Maharashtra, India</p>	<p>Bio-methane potential and modeling studies of cow dung, food waste and pine needles at low mesophilic temperature</p> <p>Ankur Choudhary, Ashish Kumar*, Sudhir Kumar Ankur Choudhary HP, India</p>
12:15 – 12:25	<p>An empirical investigation on environmental behaviour in the perspective of Green Marketing</p> <p>S. Annamdevula1, R. Sinha2, R. P. Pappu3 and S. S. Nudurupati4 AP, India</p>	<p>Evaluation of single and multi-element adsorption of Pb(II), Cd(II) and Ni(II) on KoH activated carbon from vetiver roots.</p> <p>M.Padmaja, R.Bhavani, Anantapuramu, India</p>	<p>Use of Industrial Waste Slag in the Development of Self-Compacting Concrete for Sustainable Infrastructures</p> <p>K. P. Sethy 1,* , K. K. Sahoo 2 , B. Jena 3 Odisha, India</p>	<p>Chitosan: An Effective Immobilization Matrix for Microbes in Microbial Fuel Cell</p> <p>Pooja Rani Kuri and Pranab Goswami Odisha, India</p>	<p>Waste water contaminant flow behaviour in compost with manufactured sand (M-Sand) and varied layered circumstances,</p> <p>P.Balaganesh, M.Vasudevan, N.Natarajan ,India</p>	<p>Statistical optimization of 4-nitrophenol biodegradation by an isolated pure culture via Taguchi orthogonal array methodology</p> <p>Priyanka Sarkar1, Ananya Das, Apurba Dey* WB, India</p>	<p>Comparative Study for Pretreatment of Lignocellulosic Biomass Using Inorganic Salt</p> <p>Monidipa Bose and Shyamal Roy WB, India</p>

	TS 43	TS 44	TS 45	TS46	TS 47	TS48	TS49
12:25 – 12:35	<p>Awareness on going green by recycling of waste</p> <p>D. Bharathi², K. S. Shanthi Sree¹, A. Suvarna Latha¹, N. Yasodamma AP, India</p>	<p>Assessment of Physicochemical quality and Heavy metals status in some selected drains discharge into the lower stretch of Hooghly River .</p> <p>Lokenath Chakrabortya, Susmita Goswamib, Sandip Mondalc, Subir Kumar Nagd. Durgapur India</p>	<p>Low level solid radioactive waste management practices followed at Nuclear Fuel Complex, Hyderabad</p> <p>Divij Bhattacharjee¹, M.Anil Kumar Reddy², A Hanumantha Rao, V Srinivasa Rao, RVRL Visweswara Rao, S.Sairam, Meena Ravindran, Dr.Dinesh Srivastava TS, India</p>	<p>Removal of Cr from aqueous solution by using biochar produced from waste,</p> <p>Manash Gopea, Anibrata Dasb, Sandip Mondalb and Rajnarayan Sahaa, Durgapur , West Bengal, India</p>	<p>Effective Treatment Of Of Dairy Waste Water By Aluminium And Iron Electrodes Electrocoagulation Process,</p> <p>P. T. Dhorabe , C.Kamble, V.R.Agrawal, Y.D. Chintanwar, P.Kamble,, B.R.Gautam, Nagpur, India</p>	<p>Modelling and Optimization of Cyanide and Phenol Removal from Synthetic Wastewater Using Artificial Neural Network (ANN) and Particle Swarm Optimization (PSO).</p> <p>Sabyasachi Pramanik, Biswajit Sarkar, Sandip Kumar Lahiri, K.C. Ghanta, Susmita Dutta, Durgapur India</p>	<p>Delignification of Biomass Residues by Fungal Pre-treatments</p> <p>Manasa Nagesh Hegde, Sreesha Malayil, H. N. Chanakya Karnataka, India</p>
12:35 – 12:45	<p>Case study: Implementation of impact of agricultural practices for a self-sustainable system</p> <p>Divya Sree Madichati ^{1,*} Ralf Otterpohl ¹ Germany</p>	<p>Fish Scale Waste- a potential sustainable material for water pollution remediation</p> <p>D. A. Khandare ^{1,*}, S. N. Mukherjee. Kolkata , India</p>	<p>Characterization of Waste Engine oil (WEO) Pyrolytic oil and Gasoline Blended oil and Determination of Optimum Blending Conditions</p> <p>Nivedita Patel, Krushna Prasad Shadangi Odisha, India</p>	<p>Modification and Optimization of Hydrophobic PVDF Membrane by Chitosan extracted from Fish scale</p> <p>Deepika Behera, Nitin Kumar, Deepshikha Datta Odisha, India</p>	<p>Effective treatment of dairy waste water by using natural coagulants</p> <p>Vikash R. Agrawal¹, Prashant T. Dhorabe, Yogesh, D.Chintanwar, Rajesh Bhagat, Vikrant Vairagade, Bharti Gautam, Nagpur, India</p>	<p>Parametric Optimization of Yield Percentage of Chitosan Extracted from Fish scale (Labeo rohita) in comparison to Prawn shell (Fenneropenaeusindicus)</p> <p>Nilesh Kumar Swain, Nitin Kumar, Deepshikha Datta WB, India</p>	<p>Utilization of Solid Waste Biomass of Polyathia Longifolia Leaves for its Waste Management to Produce Energy as Liquid Fuel</p> <p>Abhishek Singh, Gaffer Ahmed, Sneha Acharya, Harshal D. Kawale, and Nanda Kishore Assam, India</p>
12:45 – 12:55	<p>A Systematic Ward-Level Analysis of Urban Solid Waste</p>	<p>Removal of dyes from industrial waste water using coagulation by Potassium</p>	<p>Effects of industrial wastewater on soil physico-chemical properties in tropical</p>	<p>Valorization of lignocellulosic biomass towards future aspects</p>	<p>Bioremediation of industrial wastewater using bioenergy by-product,</p>	<p>Fly Ash</p>	<p>Studies on growth kinetics and lipid accumulation of a Power plant</p>

	TS 43	TS 44	TS 45	TS46	TS 47	TS48	TS49
	Management in Bengaluru Shwetmala Kashyap, Arkalgud Ramaprasad, and Chetan B Singai	Aluminium Sulphate [KAl(SO ₄) ₂] Shaikh Rajl, Bidisha Sarangil, Deepshikha Datta Bhubaneswar, India	environment. Rachana Dubey, M. Raychaudhuri and PS Brahmanand. Bhubaneswar, Odisha, India	Uma Maheswari R and Jaya Sikder WB, India	Sneha Acharya, Ritusmita Goswami, Rupam Kataki, Tezpur , Assam India	Sustainable management of ferrochrome-ash, a hazardous waste as supplementary cementitious material P. K. Acharya ¹ , S. K. Patro ² Odisha, India	algae L.Subtilis JUCHE1 by variation of nitrogen concentrations (NaNO ₃) S. Das, S. Mahato, R. Chowdhury WB, India
12:55 – 13:05	Effectiveness of Planned Teaching Program on Knowledge regarding Menstrual Hygiene, use of Sanitary Pads and It's Disposal Management among the Adolescent Girls in a selected School, BBSR,Odisha Purnima Sahoo, Niyati Das*, S.Bhaktiswarupa Odisha, India	Root zone treatment of polluted water. Sanhita Padhi* P.P. Rout ¹ , R. Swain Cuttack, Odisha. India	Re-refining of industrial lubricating oil by an environment-friendly non-acidic extraction-flocculation method Sayantan Sarkar, Deepshikha Datta, Bimal Das WB, India	Fruits and vegetables solid wastes as natural source of bioactive compounds: A Review Arjuma Sultana, Uma Ghosh Kolkata, India	Adsorptive Removal Of Ibuprofen By Steam Activated Biochar Derived From Tamarindus Indica Seeds: Isotherm & Thermodynamics Sumona Show, Sucharita Samanta, Gopinath Halder, Durgapur, India	A study on mechanical and durability properties of Interlocking fly ash based concrete paver block using Defferent types chopped fibres Gitanjali Maharana , Biswajit Jena, Sagarika Panda Odisha, India	Rice mill wastewater treatment in microbial fuel cell operated in a sequential anaerobic-aerobic configuration, Aryama Raychaudhuri ¹ , Rudra Narayan Sahoo ^{1b} , Manaswini Behera, Bhubaneswar, India
13:05- 13:15		Grey water treatment using vegetable/fruit enzyme solutions. Fazna Nazim, Renu Pawels Kalamassery,Kerala,	Removal of hazardous organic pollutants from water over ZIF-8 Metal Organic Framework: An In-silico study Satya Narayan Sahu 1 , Subrat Kumar Pattanayak 2 , Jagannath Panda 1 , Biswajit Mishra 1* , Rojalin Sahu 1*	Application of water hyacinth biochar for remediation of metal contaminated soil Nijara Baruah, Nirmali Gogoi, Juri and Debashree Dutta Assam, India	Developing An Artificial Wetland System For Wastewater Treatment By Using Duckweed Plants: An Effective Method, B.R.Gautam, .S.Kamble,	Performance evaluation of Fly ash bricks with Clay bricks S.K.Dash, I.Mohanty, R. P. Nayak and B.B. Kar, L.D.Panda Odisha, India	Development of method for faster adaptation of methanogenic biomass for anaerobic treatment of domestic wastewater at psychrophilic

	TS 43	TS 44	TS 45	TS46	TS 47	TS48	TS49
			Odisha, India		P.T.Dhorabe Nagpur,India		conditions, Rohan Guptaa and Rima Biswas, Nagpur, India
13:15- 13:30	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer	Question Answer
13:30- 14:30	LUNCH						
14.35 – 17.30	Valedictory						
	Start of the 10th IconSWM 2020 activities						
	POSTER SESSION						
	26th afternoon and 27th morning : Poster Sl. No 1 - 48 should be displayed by the authors and remove by 17.30 pm on 27.11.2019						
10.30 – 17.30	27.11.2019 : Poster Sl. No 1 - 48 for presentation and assessment by the authors and Jury board for IconSWM Excellence Award.						
17.30- 19.00	27th Evening : Poster Sl. No 49 - 96 should be displayed by the authors and remove by 17.30 pm on 28.11.2019						
9.30 – 17.00	28.11.2019 : Poster Sl. No 49 - 96 for presentation and assessment by the authors and Jury board for IconSWM Excellence Award.						
17.00- 19.00	28th Evening : Poster Sl. No 97 - Rest should be displayed by the authors and remove by 14.30 pm on 29.11.2019						
9.00 – 13.00	28.11.2019 : Poster Sl. No 97 - Rest for presentation and assessment by the authors and Jury board for IconSWM Excellence Award.						
	Display Instruction: Please bring your poster and cellotape for fixing the poster on display board. Both sides of one display bord will contain four posters. Kindly follow the serial no while fixing the poster and display your serial no and paper code.						



LIST OF POSTER PRESENTATION

9th IconSWM-CE 2019, November 27-30, 2019;

Venue: Campus 6, Convention Centre, KIIT Bhubaneswar, Odisha

Kindly note that all the full papers submitted for this poster presentation will be considered and reviewed for publication in the theme based books to be published by springer nature Singapore and other reputed publishers.

Presentation: Presenter has to bring the printed poster in IconSWM Template available in www.iswmaw.com. Display at appropriate location in the venue as above and be available at specified time to explain to the jury members and delegates on all three days. There is ten “IconSWM Excellence Awards” to be selected for poster presentation by jury board.

Sl. No.	Abs. Code (A)	Title of the paper	Authors Details
Paste your poster sl. No. 1-48 on 26.11.2019 (Evening) & 27.11.2019 (Morning) as per above instruction in page no 40			
1.0	3	Interface Shear Strengths between Bagasse ash and Geogrid.	Aditya Kumar Bhoi ^{1,*} , JnanendraNath Mandal ² andAshish Juneja ³ IIT Bombay, Powai, Mumbai – 400 076
2.0	6	Conversion of Red Mud into High Energy X- ray Shielding Tiles.	RiniPaulose a, VarshaAgrawala, AbhishekGiri a, Anshuman Panda, Dr. Sunil K Sanghi a, Dr. Deepti Mishra a, and Dr. ShabiThankarajSalammal CSIR-AMPRI, Bhopal, Madhya Pradesh, India
3.0	8	Adsorption Studies on the Removal of Pb ²⁺ ions from Aqueous Solutions using Citrus Sinensis Peel.	ShubhangiS.Malkhede MIT,Kothrud, Pune. Maharashtra State, India
4.0	13	Sustainable Manufacturing Practices in Alloy Steel Foundries.	Prof V.Suresh Chandra Indus Business Academy, Thataguni, Bangalore
5.0	16	Behavioral Pattern of strength achievement of mine tailings as building material.	RohitMalawade 1 , K G Guptha 2 , Praveen Ghorpade 3; VTU-RRC, Belagavi
6.0	17	Prevent and Protect of Environmental Management in SCCL	Dr. Chinthireddy Prakash Osmania University, HYD-07
7.0	23	Experimental investigation on synthesis of biodiesel from non-edible Neem seed oil: Production optimization and evaluation of fuel properties	S. K. Dash 1,* , P. K. Das 1 , C. K. Hirwani 1 , R. Kumar 1 Aditya Engineering College, Surampalem, Andhra Pradesh, India
8.0	26	Screening and Characterization of Aerobic Bacterial Strains Capable of Degrading and Metabolising the Synthetic Pigment- Melanoidin	Swabna Vivekanandam ¹ , Selvakumar Muniraj ² and VasanthyMuthunayanan ^{*2} t Joseph’s College, Tiruchirappalli, Tamil Nadu, India.
9.0	37	Improvement in biogas production by direct interspecies	Ravi Bajaj ¹ , Kapil Garg ² , Sagarika Panigrahi ³ , Brajesh Kumar Dubey ^{4, *}

Kindly note that all the full papers submitted for this poster presentation will be considered and reviewed for publication in the theme based books to be published by springer nature Singapore and other reputed publishers.

Presentation: Presenter has to bring the printed poster in IconSWM Template available in www.iswmaw.com. Display at appropriate location in the venue as above and be available at specified time to explain to the jury members and delegates on all three days. There is ten “IconSWM Excellence Awards” to be selected for poster presentation by jury board.

Sl. No.	Abs. Code (A)	Title of the paper	Authors Details
		electron transfer technique: Current aspects and diverse prospects	Indian Institute of Technology Kharagpur, City,
10.0	50	Assessment of the role of bacteria of fish gut waste and latex Of papaya waste in promoting immunity in edible fish	V. Chandra Rekha ¹ , D. SaiVinathi ¹ , T. Hemalatha ¹ A. Sridevi ² , N. Rajani ³ and V. Kalarani ¹ * Department of Biotechnology, Tirupati – A.P.
11.0	57	Utilization of industrial waste slags in sustainable concrete blends	S.R.Patra ¹ , I.Mohanty ^{2,*} , S.K.Jha ³ KIIT University, Bhubaneswar -751024,India
12.0	63	Performance and Emission Analysis of an CI Engine using Biogas derived from Kitchen waste and its blend with diesel fuel	
13.0	65	Class Room Duster Cleaner	PallabBasuMallik Future Institute of Engineering and Management, Kolkata
14.0	71	Bearing Capacity Of Reinforced Soil On Varying Footing Size	Bandita Paikaray ¹ , Sarat Kumar Das ¹ , BenuGopal Mohapatra ² ,Sweta Sarangi ² KIIT, Deemed to be University, Bhubaneswar, India
15.0	75	Shear Strength Behavior of Municipal Solid Waste for Bangalore City	Sandeep Kumar Chouksey National Institute of Technology, Raipur
16.0	85	Bioenzyme: A program to promote use of natural cleaner through educational institutes	Leena Kelshikar, Cofounder, Rnisarg Foundation; Dr Lata Ghanshamnani, Cofounder, Rnisarg Foundation, Ms. Ambily Adithyan, Program Head, Rnisarg Foundation
17.0	86	Kagadam: An initiative to create a Paper Recycling & Learning Centre within the school campus	Lata Ghanshamnani, Jhanvi Rai, Leena Kelshikar, Ambily Adithyan, Rnisarg Foundation, Thane
18.0	92	Screening and characterization of composting bacteria (city compost) from municipal solid waste disposal sites of Hyderabad.	
19.0	93	Screening of Production of Lipase producing bacteria from oil contaminated soil	
20.0	116	Simultaneous treatment of rice mill wastewater and value-added product Recovery using rice husk ash.	Arunava Chatterjee, Anuj Kumar, Uttarini Pathak, Tamal Manda. Durgapur , India
21.0	117	Development of N-P-K enriched bio-organic fertilizer along with plant growth promoting bacteria	Subhasish Majee, GopinathHaldar, RN Krishnaraj, TamalMandal National Institute of Technology, Durgapur
22.0	121	Pre-treatment methods of organic waste for Anaerobic Digestion in India: Current practices and reviews	Anaya Ghosh, Aditya Roy Choudhury, Awantika Prasad, , Jyoti Prakas Sarkar, Bimal Das Durgapur, India

Kindly note that all the full papers submitted for this poster presentation will be considered and reviewed for publication in the theme based books to be published by springer nature Singapore and other reputed publishers.

Presentation: Presenter has to bring the printed poster in IconSWM Template available in www.iswmaw.com. Display at appropriate location in the venue as above and be available at specified time to explain to the jury members and delegates on all three days. There is ten “IconSWM Excellence Awards” to be selected for poster presentation by jury board.

Sl. No.	Abs. Code (A)	Title of the paper	Authors Details
23.0	127	Improvement of life service of the mechanical components using nanocomposite coatings	ParikshitMahato, Naresh Chandra Murmu, Priyabrata Banerjee CSIR-CMERI Durgapur
24.0	133	A new cost-effective technological concept to capture mercury of the flue gas from coal power plants with a brief review on its toxicity effects on health and current technologies to capture mercury	Dilip K De2 ; Uduakobong I Ikono1; Sandra O Akinmeji1 and Idowu Oduniyi3 1Covenant University, Ota, Ogun State, Nigeria 2Sustainable Green Power Technologies, Mansfield, Texas
25.0	134	A source of Bio-gas Generation and sustainable development in rural India	Avirup Sarker, 1bMijba UddinMolla, 2Shubham Dhar, Sujit Dhar The Neotia University, Kolkata.
26.0	135	Pharmaceutical waste management – a study	AnweshBhowmick, Sucharita Bhattacharyya Guru Nanak Institute of Pharmaceutical Science & Technology (GNIPST) (under JIS Group) Sodepur, Panihati, Kolkata
27.0	137	Design & Fabrication Of Concentrated Of Solar-Geothermal Wastewater Treatment Apparatus	S. D. Majumder1,*, S. Saha2, R. Baidya3 1 Institute of Engineering & Management, Kolkata, India
28.0	146	Preparation of Carbonate Rich Blackboard Chalk from Chicken Egg Shells	AbhishekSarkar and PanchananPuzari Tezpur University
29.0	155	Water splitting using Gold Vanadium catalyst	Biraj Das, Mukeshsarma, Kusum K. Bania Tezpur University
30.0	156	PdO/CuO-Y/C Nanocomposite for Direct Methanol Fuel Cell and Nitro-arene Reduction	Mukesh Sharma, Biraj Das, Kusum K. Bania Tezpur University
31.0	157	Possibility of Waste Aluminium Can for Solar Air Heater Absorber Material through Thermal Performance Studies	Anindita Sharma1, Pooja Dutta1, Priyom Goswami1, Partha P. Dutta1, Harjyoti Das Tezpur University, Napaam, Sonitpur
32.0	159	Agricultural waste management through organic cultivation of Ridge gourd (LuffaacutangulaRoxb.)	NaseemaRahman, DC Baruah, SampritiKakoti, DipomPatowary, DeepaBorborPhukan, D Hazarika, KK Sarma and DJ Nath Tezpur University
33.0	161	Supercapacitor Energy Storage Devices in the Light of Waste Management: A Review	ArindamDutta, JiwajyotiMahanta Indian Institute of Technology ,Guwahati
34.0	164	Discovering newer bacteria for valorization of agrowaste and an eye for biotechnological applications	Jahangir Hussain, Dr. EeshanKalita Tezpur University
35.0	165	Design development and performance evaluation of Solar Thermal System	RahatMahaboob, Biraj Kumar Kakati Tezpur University
36.0	167	Uptake of Arsenic by diatoms: a potential method of	SangitaBaruah, Kalyan Kr Hazarika, Kali Prasad Sarma

Kindly note that all the full papers submitted for this poster presentation will be considered and reviewed for publication in the theme based books to be published by springer nature Singapore and other reputed publishers.

Presentation: Presenter has to bring the printed poster in IconSWM Template available in www.iswmaw.com. Display at appropriate location in the venue as above and be available at specified time to explain to the jury members and delegates on all three days. There is ten “IconSWM Excellence Awards” to be selected for poster presentation by jury board.

Sl. No.	Abs. Code (A)	Title of the paper	Authors Details
		waste water treatment	Darrang College, Tezpur University
37.0	168	Management of Bio-Medical Waste and Right to Health	MehnazAkhtar Ahmed Dibrugarh University
38.0	171	Co-Cr-HNT as an Efficient Electrocatalyst for Methanol Oxidation	Manash J. Baruah, Mukesh Sharma, Biraj Das and Kusum K. Bania* Tezpur University
39.0	175	Design and Development of a Hostel Wash Basin Waste Trap for Appropriate Food Solid Waste Management	TarkikDutta, Prasun Kumar Roy, Prem Shankar Kumar, ParthaPratimDutta, Bhabesh; Nath, HreeshikeshDutta, Tezpur University
40.0	176	Evaluation of Buffer Lime Requirement method without Hazardous Chemicals for acid soils of Upper Brahmaputra Valley Zone of Assam	LekhikaBorgohain, Danish Tamuly, K.N. Das Assam Agricultural University, Jorhat
41.0	178	Investigation on the Emission Characteristics of a Diesel Engine Fueled by Neat Biodiesels	BichitraBikash , MadhurjyaSaikia, Dilip Kumar Bora, KalyanKalita DibrugarhUniversity,Assam
42.0	181	Optimization and Characterization of Microcrystalline Cellulose extracted from Banana Cob	Julie Baruah, EeshanKalita Tezpur University ekalita@tezu.ernet.in
43.0	184	Performance Analysis of a Solar Assisted Water Electrolyzer (SAWE)	NayanMoniBaishya, VikasVerma, Biraj Kumar Kakati Tezpur University
44.0	190	Use Of Naturally Occurring Gum In Soil Stabilization	IpsitaPanda;SaniPanda;NeerajAgarwal KIITUniversity,Bhubaneswar,Odisha,India,
45.0	191	Characterization And Stabilization Of Dredged Chilika Sand With Biopolymer	HarishankarJeevan Dash 1 , Sarat Kumar Das 2 , Suresh Prasad Singh 3 and AparupaPani, National Institute of Technology Rourkela, Rourkela
46.0	198	Challenges and opportunities of Incineration plants In India: An Overview	1 Sayantan Das, Dillip Kumar Bera, 2 KshyanapravaSamal KIIT DU, Bhubaneswar, Odisha, India
47.0	200	Oxidative degradation of Rhodamine B dye in water - comparison of UV and sunlight-assisted Fenton processes	MahjabeenAkram†, SampaChakrabarti* University of Calcutta
48.0	205	Waste Management: A Futuristic Sustainable Approach	Soutrik Bose, Vibhav, Aamin Rashid1 MCKV Institute of Engineering, Liluah, Howrah 711204,West Bengal, India

Kindly note that all the full papers submitted for this poster presentation will be considered and reviewed for publication in the theme based books to be published by springer nature Singapore and other reputed publishers.

Presentation: Presenter has to bring the printed poster in IconSWM Template available in www.iswmaw.com. Display at appropriate location in the venue as above and be available at specified time to explain to the jury members and delegates on all three days. There is ten “IconSWM Excellence Awards” to be selected for poster presentation by jury board.

Sl. No.	Abs. Code (A)	Title of the paper	Authors Details
Paste your poster sl. No. 49-96 on 27.11.2019 (Evening) as per above instruction in page no 40			
49.0	206	Development of an improved solid waste management technique for environmental sustainability by recycling and shredding	Soutrik Bose, Vaibhav Mishra, Ipsita Ghosal and ShubhamRanjan MCKV Institute of Engineering, Liluah, Howrah 711204
50.0	207	Fabrication and characteristics of nanofiltration composite Membranes using polyacrylonitrile and polyamide for Desalination	Coimbatore BhargaviRadhakrishnan, Dr.M. Thirumarimurugan Chemical Engineering Coimbatore Institute of Technology
51.0	208	Assessment of Water Quality by using Index Model for Mining Industry Waste Contaminated Water, Kerala	Sneha Gupta, TekedilZeenatHumsa, R.K. Srivastava, MMMUT Gorakhpur
52.0	209	Removal of Heavy Metals using Low cost Adsorbent	Pankaj Kumar, Dr Sneha Gupta, Asit Singh MMMUT, Gorakhpur, India
53.0	210	Emission and combustion characteristics of a Diesel engine fuelled with transestrifiedCalophyllumInophyllum oil	Anant G. Nagpure , W.S.Rathod , SupriyaBobade Veermata Jijabai Technological Institute, Mumbai, Indian Biodiesel Corporation, Baramati, Maharashtra, India
54.0	211	Performance Evaluation of Decentralized Wastewater System (DEWATS) In Semradevi Prasad at Gorakhpur	AshutoshShukla, ShubhamVerma, Pankaj Kumar, Asit Singh Madan Mohan Malaviya University of Technology, Gorakhpur
55.0	212	Waste management	DrSujitDhar- AvirupSarker Neotia Institute of Technology,Management & Science, Kolkata
56.0	213	Mathematical modelling on economic status of local People in sundarban, involved in shrimp supply chain	PayelGhosh, SudipKarmakar Raidighi College, Raidighi, South 24 PGS, India,
57.0	214	A Sustainable Solution towards E-waste Recycling	Jacky Shaw, Anuja Mukherjee Dibas Das IpsitaSaha Guru Nanak Institute of Technology, Kolkata, India
58.0	216	Grey water management is a typical sustainable livelihood for low-income state, Jharkhand, India- A case study	Alok Kumar, Suresh Kumar, Saroja Kumar Barik Environment Specialist, Department of Drinking water and Sanitation, Govt.of Jharkhand Environment Specialist, JSPLS, Govt.of Jharkhand
59.0	219	Perception and Experience of Waste Collectors toward Street Dogs in Kathmandu, Nepal	A. Khanal Nepal Open University, Kathmandu, Nepal
60.0	220	Utilization of Resource in a Ferro alloy plant	Ananya Ghosh, Bipasa Das AnkitSaha Rajarshi Chakraborty Guru Nanak Institute of Technology, Kolkata, West Bengal

Kindly note that all the full papers submitted for this poster presentation will be considered and reviewed for publication in the theme based books to be published by springer nature Singapore and other reputed publishers.

Presentation: Presenter has to bring the printed poster in IconSWM Template available in www.iswmaw.com. Display at appropriate location in the venue as above and be available at specified time to explain to the jury members and delegates on all three days. There is ten “IconSWM Excellence Awards” to be selected for poster presentation by jury board.

Sl. No.	Abs. Code (A)	Title of the paper	Authors Details
61.0	224	E-Waste Status in India: A Review	Avik Mukherjee, Tirthankar Mukherjee IEM, Kolkata, India
62.0	225	A Comparative Analysis of E-Waste Management Systems and Compliance to Basel Convention in Different Countries	MdSakibRahi, SubhasishBera, RajdeepBardhan, Rahul Baidya Institute of Engineering & Management, Kolkata, India - 700091
63.0	227	Effect of anionic surfactants on phototrophic organisms: A REVIEW	Manjari R 1,2, Seema Sukhani1 *, Chanakya HN1 * IISc, Bangalore, 2 -IIT Madras, Chennai, India
64.0	235	Environmental Education and Awareness is a logical tool for the Elimination of Poverty in India	M. Jaya Kumar Jacob AcharyaNagarjuna University, Nagarjuna Nagar, Guntur – 522 210. AP. India
65.0	243	INFLUENCE OF INDUSTRIAL WASTES ON GEOTECHNICAL CHARACTERISTICS OF EXPANSIVE SOIL	JagoriDutta KIIT University, Bhubaneswar
66.0	244	Assessment of Pharmaceutical Waste Treatments: A Review	SuryadiptaSanyal 1 , Tirthankar Mukherjee* Department of Pharmacy, NSHM, Kolkata, India
67.0	248	Future refrigeration and air-conditioning system using dry ice that can be abundantly available with a novel emission capture technology	Dilip K. Deal,, and IdowuOduniyib Sustainable Green Power Technologies, Mansfield, Texas 76063, USA.
68.0	251	Design of multipurpose, waste & air treatment system	Ramesh Kumar Karthick1*, Nikunj Verma1, Nitin Ujjwal1, Saddam Hossain Mullick2 IEM Kolkata
69.0	254	Decentralized Waste Composter for Indian Kitchen Waste	Niraj Kumar1*, Meghna Saha1, Nishant1, Prem Shankar2, Rahul Baidya3 Institute of Engineering & Management, Kolkata
70.0	257	Comparison of Linear and Nonlinear Regression Methods for Equilibrium Modelling of Ammonia adsorption by Error Analysis Criteria using cost effective waste camellia sinensis	RajdeepMullicka, BaisaliRajbansib* University of Calcutta, Kolkata
71.0	262	Enhanced antibacterial effect of activated carbon prepared From ligno-cellulosic biomass available in north east india	HarjeetNath a* , ChandraniDebnath b , Joydeep Das c , RishabhSaxena d , BiswajitSarkar Tripura University (A Central University), Agartala-799022, India
72.0	264	E- Waste Management	Dr Harish Kumar Agre, Mdjalal , V sireesha Muzaffar,

Kindly note that all the full papers submitted for this poster presentation will be considered and reviewed for publication in the theme based books to be published by springer nature Singapore and other reputed publishers.

Presentation: Presenter has to bring the printed poster in IconSWM Template available in www.iswmaw.com. Display at appropriate location in the venue as above and be available at specified time to explain to the jury members and delegates on all three days. There is ten “IconSWM Excellence Awards” to be selected for poster presentation by jury board.

Sl. No.	Abs. Code (A)	Title of the paper	Authors Details
			Symbosisi skills open university pune, India
73.0	266	Effect of algae biomass production of Euglena sanguinea using different types of containers on Laboratory scale	NabamHinaPapu, Awinashkumar, MoichingSajit Ahmed, Pradiplingfa North Eastern Regional Institute of Science and Technology, Arunachal Pradesh, India
74.0	267	Waste Cleaning System For Water Bodies And Drain	SubhamSourav, Sauravkumar, Sarjeel Samar, Varun Kumar, Rahul Baidya Institute of Engineering & Management, Kolkata
75.0	272	Prevention Of Environmental Pollution Through Waste Management	P.ThavithaThulasi
76.0	273	Spatial distribution of physical and chemical properties of soil parameters nandigam around mandal region, srikakulam district, ap a gis approach.	Y.Padmini ¹ , P.JagadeeswaraRao ² and B.Sridhar ³ College of Science, Dr.B.R.Ambedkar University, Srikakulam-532410
77.0	274	Spatial distribution of groundwater quality parameters nandigamaround mandal region, Srikakulam district, AP A gis approach.	B.Sridhar ¹ , P.JagadeeswaraRao ² and Y.Padmini ³ Andhra University, Visakhapatnam-530003
78.0	275	Green House Effect by investigating of an Internal Combustion Engine (I C Engine) using Argemone Mexicana (waste plant) biodiesel blends	A. K. Rout ¹ , M. K. Parida ² and Mamuni Arya ³ KIIT Deemed to be University, Bhubaneswar- Odisha, India
79.0	276	Effect of slag addition on compressive strength and microstructural features of fly ash based geopolymer	Dipankar Das, Alok Prasad Das, Prasanta Kumar Rout Tripura University (A Central University),
80.0	282	Paper Based Sensor For The Determination Of Ruthenium(III) In Ground Water With The Help Of A Smart Phone	B.Vinu ¹ , G.Swathi ¹ , B.S.A.Andrews ² , K.M.M.Krishna Prasad ³
81.0	285	Recovery of Tungsten Values from the Gold Mine Waste	Surya Kanta Das, Shivakumar I. Angadi and S. Basu CSIR- Institute of Minerals and Materials Technology, Bhubaneswar, 751013
82.0	293	Relative adsorption behaviour of Cr (VI) Against pure clays and natural soils	Padmavathi bandaru, Anima S. Dadhich *, B. Vinay Sagar, Ch. Durga Prasad Visakhapatnam, Andhra Pradesh,
83.0	295	Study of Occupational and Environmental Health: Considering a Cohort Study on Waste Hair Reprocessing Workers	Kousik kr. Mondal ¹ , Shuvam Banerjee ¹ , Shrinjana Dhar ¹ , Sandip Bhattacharjee ² and Pritha Bhattacharjee ¹ University of Calcutta; West Bengal, India
84.0	301	Investigation On Strength Factor Of Composite Concrete	P. Sudheer ¹ , G. Praveen ²

Kindly note that all the full papers submitted for this poster presentation will be considered and reviewed for publication in the theme based books to be published by springer nature Singapore and other reputed publishers.

Presentation: Presenter has to bring the printed poster in IconSWM Template available in www.iswmaw.com. Display at appropriate location in the venue as above and be available at specified time to explain to the jury members and delegates on all three days. There is ten “IconSWM Excellence Awards” to be selected for poster presentation by jury board.

Sl. No.	Abs. Code (A)	Title of the paper	Authors Details
		Using Quarry Dust And Artificial Aggregates	<i>MVGR College of engineering (Autonomous), Vizianagaram</i>
85.0	307	Durability Properties of Geopolymer Concrete Utilizing Waste as Binder	<i>AnkitaSikder and PurnachandraSaha KIIT Deemed to be University, Bhubaneswar, Odisha, India</i>
86.0	315	Sustainable Waste Management towards Circular Economy	
87.0	323	USE OF FLYASH AND LIME FOR ATTIANEMENT OF CNS PROPERTIES IN A SWELLING SOIL	<i>K. V. N. LaxmaNaik, Research Scholar, Sri Venkateswara University College of Engineering, Tirupati, India</i>
88.0	328	Kinetics of the Adsorption and Photodegradation of Crystal Violet and Methylene blue from Wastewater using Titanate nanotube	<i>Saismrutiranjana Mohanty¹, Shuvendu Singha¹, Sanjib Moulick², Sanjoy Kumar Maji¹ KIIT Deemed to be University, Odisha, Bhubaneswar-751024, India,</i>
89.0	330	Utilization Of Geo Waste In Production Of Geo Fibre Papercrete Bricks	<i>AreejPalekar, SurajPatil, Dr. Uma Kale Dept. Of Civil Engineering, M.H.SabooSiddik College of Engineering, Byculla, Mumbai.</i>
90.0	360	A comparative study for an effective removal of Congo Red & Eriochrome Black T dye from aqueous solution by CeO-2 NPs as an active adsorbent	<i>Sirish R. Panda, Barsharani Priyadarshini, Pankaj K. Parhi, Sanjib Moulick³, Tapas Ranjan Sahoo KIIT deemed to be University, Bhubaneswar Odisha, India</i>
91.0	361	An efficient and comparative adsorption of Congo Red and Trypan Blue dyes on MgO nanoparticles: Kinetics, Thermodynamics and Isotherm Studies	<i>Barsharani Priyadarshini¹, Tanaswini Patra¹, Pankaj K. Parhi², Sanjib Moulick³, Tapas Ranjan Sahoo^{1*} KIIT deemed to be University, Bhubaneswar 24, Odisha, India</i>
92.0	365	A short review on Constructed Wetlands for effluent treatment	<i>Indrashis Saha¹, Khushbu.K.Birawat^{2,*} 1.Independent Researcher, Kolkata, India</i>
93.0	373	Biosorption of Ni ⁺² byNi ⁺² resistant Saccharomyces cerevisiae in presence of some natural nutrients	<i>Jayeeta Banerjee,¹Ranjan Kumar Basu, Sudip Kumar Das*, Ajit Kumar Banik University of Calcutta</i>
94.0	376	Thermal Performance of an Improved Smokeless Industrial Biomass Stove	<i>S.K.Sharma Energy Research Centre, P.U. Chandigarh, India,</i>
95.0	379	An study on tensile strength and modulus properties of concrete using industrial waste vermiculite & granite-fines	<i>Damodhara Reddy Budda¹ , Kiran Kumar Narasimhan²and ArunaJyothy S³ .C.Sasidhar⁴ S.V.College of Engineering & Technology, Chittoor, Andhra Pradesh-517127, India,</i>
96.0	382	Improvement of properties of an expansive soil with induction of	<i>*Suresh Gunji 1 , Ch.Sudha Rani 1 , YugandharGundlapalli 1 , JayakumarKannali 2 , BashaSreenivasuluu 2</i>

Kindly note that all the full papers submitted for this poster presentation will be considered and reviewed for publication in the theme based books to be published by springer nature Singapore and other reputed publishers.

Presentation: Presenter has to bring the printed poster in IconSWM Template available in www.iswmaw.com. Display at appropriate location in the venue as above and be available at specified time to explain to the jury members and delegates on all three days. There is ten “IconSWM Excellence Awards” to be selected for poster presentation by jury board.

Sl. No.	Abs. Code (A)	Title of the paper	Authors Details
		Bacteria	Sri Venkateswara University, Tirupati-517 502, A.P
Paste your poster sl. No. 97 - Rest on 28.11.2019 (Evening) as per above instruction in page no 40			
97.0	391	Awareness of Cervical Cancer among Rural population	1Nagarjuna Sivaraj, 2NVK Reddy,3Hari Lakshmi Chikkala and 4K. Vijaya Rachel * GITAM Deemed to be University, Visakhapatnam.
98.0	396	BIOGAS FED SOLID OXIDE FUEL CELLS FOR RURAL ELECTRIFICATION	Kamalimeera n 1 , aarthi pooja m 1 , priyadharshini s 1 , anitha s, V.kirubakaran 2 Centre for Rural Energy, The Gandhigram Rural Institute – Deemed to be University Gandhigram, Tamil Nadu
99.0	399	Feasibility Study Of Production Of Bioethanol For Beta Vulgaris For Replacing Fossil Fuel	Prasannakumaran K M 1 , Sanjay Kumar C 1 ,Karthikeyan M 1 , Premkumar D 1; V.Kirubakaran The Gandhigram Rural Institute – Deemed to be University Gandhigram, Tamilnadu -624 302
100.0	400	Study on Improvement of Strength in Weak Soil using Rice Husk	Dudam Bharath Kumar, KIIT DU, Bhubaneswar
101.0	402	Enhanced anti-bacterial effect of activated carbon prepared from ligno-cellulosic biomass available in North-East India	Harjeet Nath1*, Chandrani Debnath1, Joydeep Das1, Rishabh Saxena2, Biswajit Sarkar1 Tripura University (A Central University), Agartala-799022, India
102.0	403	Economic conditions of the fishing villages Vs fish governance in the state of Andhra Pradesh	M. JAYA KUMAR JACOB a P. BRAHMAJI RAO AcharyaNagarjuna University, Nagarjuna Nagar, GUNTUR – 522 510. A. P.
103.0	406	A Review on Biodegradable Packaging Materials in Extending the Shelf Life and Quality of Fresh Fruits and Vegetables	Ramesh M a , Narendra.G a , Sasikanth.S b Jawaharlal Nehru Technological University, kakinada, Andhrapradesh, india
104.0	412	Mechanical Properties and Chloride Content on Self Compacting Concrete Exposed To Sea Water	Biswajit Jena, KirtiKantaSahoo 2 DRIEMS (Auto.),Cuttack-753004, Odisha, India
105.0	415	Technology options for sustainable management of	Dr Tapas Kumar Bandyopadhyay, FIE

Kindly note that all the full papers submitted for this poster presentation will be considered and reviewed for publication in the theme based books to be published by springer nature Singapore and other reputed publishers.

Presentation: Presenter has to bring the printed poster in IconSWM Template available in www.iswmaw.com. Display at appropriate location in the venue as above and be available at specified time to explain to the jury members and delegates on all three days. There is ten “IconSWM Excellence Awards” to be selected for poster presentation by jury board.

Sl. No.	Abs. Code (A)	Title of the paper	Authors Details
		Hazardous wastes from refinery and petrochemical Industries	Environmental Expert Boom Waste Treatment Company, State of Qatar
106.0	418	Prevalence and Risk Factors for Drug Resistance in Patients with Lower Respiratory Infections in Healthcare Associated Infection-A Single Centre Study from Eastern India.	Dr C Mohan Rao 1 , DrSaswatSubhankar 2 , DrSujit Kumar Pradhan 3 , Prof Debee Prasad Dash, KIIT deemed-to-be University, Bhubaneswar.
107.0	419	Clinico-microbiological profile and antibiotic sensitivity pattern in Patients of diabetic foot ulcers: study from a tertiary care centre	Dr Pradip Kumar Behera ¹ , Dr Krishna Padarabinda Tripathy ² , Dr SudhansuSekhar Panda ³ , Dr Monica Karan ⁴ , Dr DebasisPathi KIIT University, Patia, Bhubaneswar
108.0	429	Effectiveness of planned teaching program on Knowledge regarding menstrual hygiene, use of Sanitary pads and it's disposal management among The adolescent girls in a selected school ,bbsr,odisha.	Purnimasahoo ¹ , Niyati Das ² , S.Bhaktiswarupa ³ KIIT DU Bhubaneswar, Odisha, India
109.0	431	Feasible Base And sub-Base For Low Volume Traffic	S. Sahoo 1* , S.S. Mohapatra , B. Jena 3 CUTM, BBSR, Odisha , India ,
110.0	432	“Effectiveness of Sensory Stimulation on Level of Consciousness among Traumatic Brain Injury patients admitted at selected tertiary care hospital, Bhubaneswar, Odisha – A Randomized Controlled Clinical Trial.”	1Pragyanshree Nanda, 2Amarita Lenka, 3Asokan.R*, 4N.K. Das Kalinga Institute of Nursing Sciences, Dept. of Medical Surgical, Bhubaneswar, Odisha.
111.0	445	Spontaneous Pyogenic Arthritis Due To An Environmental Opportunistic Pathogen	Dr Krishna Padarabinda Tripathy ¹ , DrPradip Kumar Behera ² , DrSudhansuSekhar Panda ³ , DrDebasis Pathi ⁴ , DrMonica Karan ⁵ Odisha, India
112.0	446	Development of value added products from different waste materials	Pawan Kumar Bharti*, R.K. Singh, A. K. Tyagi, P.K. Kaicker R; D Division, Shriram Institute for Industrial Research, 19, University Road, Delhi-110 007, India
113.0	447	Effect of soil enzymes cellulase and amylase activity in response to the application of triazophos – an insecticide	P.Suvarnalatha Devi*, B.Lakshmikalyani, T.Madhuri and V.Indrani Sri PadmavatiMahilaVisvavidyalayam (Women’s University), Tirupati-517502, Andhra Pradesh, India.
114.0	450	Medicalization And Pharmaceuticalization- A Recent Concern	Dr.KunalJha, Reader, Department of Public Health Dentistry, Kalinga Institute Of Dental Sciences, KIIT University, BBSR – 751024

Kindly note that all the full papers submitted for this poster presentation will be considered and reviewed for publication in the theme based books to be published by springer nature Singapore and other reputed publishers.

Presentation: Presenter has to bring the printed poster in IconSWM Template available in www.iswmaw.com. Display at appropriate location in the venue as above and be available at specified time to explain to the jury members and delegates on all three days. There is ten “IconSWM Excellence Awards” to be selected for poster presentation by jury board.

Sl. No.	Abs. Code (A)	Title of the paper	Authors Details
115.0	452	Knowledge & practice regarding maintenance of perineal hygiene& disposal of sanitary napkin among post natal mothers in a selected community- a descriptive study	Aparna Moharana (Msc Tutor, KINS), Mrs Kalyani Rath (Assoc. Prof, KINS)
116.0	506	Effect of complex nutrients on Nickel (II) biosorption from aqueous solution by Ni+2 resistant Saccharomyces cerevisiae RA100.	Jayeeta Banerjee,1Ranjan Kumar Basu,Sudip Kumar Das*, Ajit Kumar Bani. Kolkata , India
117.0	507	Cryogenic capture of industrial emissions for clean energy-environment!	Dilip K. Deal and IdowuOduniyib Nigeria
118.0	508	A comparative study on degradation of PPCPS in water samples,	Shilpa Bose and Ruchira Mukherjee. Ranchi, India
119.0	508	Private Sector Participation in the integrated management of FSTP and Cesspool trucks: A case study of Dhenkanal Municipality, Odisha, India	Hrudananda Mohanty Odisha, India
120.0	509	Gate to Gate life cycle assessment of hydrothermal carbonization process for food waste and yard waste	Sai Krishna Venna1, Hari Bhakta Sharma2, Sagarika Panigrahi3, Brajesh Kumar Dubey4, *, Hariprasad Reddy5 * National Institute of Technology warangal, City, Warangal,
121.0	510	Design of a Green Stormwater Control Infrastructure (GSI) using bioretention in Thiruvananthapuram museum botanical garden	S. S. Pillai*, S. Raju, J. Jose, R. T. Parambil and I. M. S. Pillai, Thangal Kunju Musaliar College of Engineering, Kollam, Kerala, 691005, India.
122.0	511	Properties of concrete at elevated temperature using waste hdpe as fibre and copper slag as mineral admixture	Marabathina Maheswara Rao1*, Sanjaya Kumar Patro2 Veer Surendra sai University of Technology, Burla, odisha, India,
123.0	512	Runoff modelling for the watershed using hydrological model swat	
124.0	513	A structural model of attitude towards waste prevention behaviour by using driver such as recycling behaviour, affective evaluation, personal norms and environmental awareness	Suman Mondal1,*, Sudeshna Roy2, Nipu Modak3 Jalpaiguri Govt Engineering College, Jalpaiguri
125.0	517	A Context Review on Solid Waste Management in Kabul	Hamidullah Nikzad Afghanistan
126.0	518	A Cloud Based Framework for Efficient Collection and Monitoring of E-Waste in India	Biswajit Debnath1,2, Sadhan Kumar Ghosh WB, India
127.0	519	Health Hazards and Environmental Impacts of e-Waste-	D. Bharathi

Kindly note that all the full papers submitted for this poster presentation will be considered and reviewed for publication in the theme based books to be published by springer nature Singapore and other reputed publishers.

Presentation: Presenter has to bring the printed poster in IconSWM Template available in www.iswmaw.com. Display at appropriate location in the venue as above and be available at specified time to explain to the jury members and delegates on all three days. There is ten “IconSWM Excellence Awards” to be selected for poster presentation by jury board.

Sl. No.	Abs. Code (A)	Title of the paper	Authors Details
		An Overview	AP, India
128.0	520	Microfiber pollution: Challenges and Management	Sunanda Mishra ¹ , Prasant Kumar Rout ² and Alok Prasad Das WB, India
129.0	522	Upward Enhanced Electrokinetic Remediation (UEEKR) for real contaminated sediments with heavy metals	Ayyanar Arulpoomalai* ,T Shashidhar <i>Indian Institute of Technology Hyderabad, India</i>
130.0	523	Biomass as an alternate source of renewable energy for a sustainable future	D. Bharathi, A. Suvarna Latha, K.S. Shanthi Sree, K. Nagalakshamma AP, India
131.0	524	Mathematical Modelling of Aerobic Digestion in Activated Sludge Process	Alomoy Banerjee ^[1] , S Raghuraman TS, India
132.0	525	Biosynthesis of Copper Nanoparticles from Waste Printed Circuit Board Leachate using <i>Punica granatum</i>	Ali Fathi, J. Senophiyah-Mary, Radhakrishnan Loganath, Eunice S Iran
133.0	526	Treatment of Industrial dye waste water by Electrocoagulation process using Iron Electrode	J. Senophiyah-Mary, Coimbatore, India
134.0	527	De-fluoridisation of phosphogypsum pond wastewater through molluscan shell	Arati Ray, Dr. Manish Kumar , Dr. N K Dhal, AcSIR, CSIR-IMMT, Bhubaneswa,India

PARTICIPATION IN RESEARCH PROJECTS LEADING TO PUBLICATION

Following research projects will be taken up leading to publication of books. The project will be launched on 29th November at the valedictory session. Those who are interested should fill this format and submit to the ISWMAW office by 28th Nov 6 pm.

<u>Please tick on the Project Number</u>	<u>Project Title</u>	I am interested to work and contribute to the research project Submit this filled in (CAPITAL LETTER) form by 5pm on 28.11.2019. Send detailed bio data to stating the project bname: iswmaw@gmail.com by 10.12.2019
<u>P1</u>	<u>Marine Littering and Micro Plastics</u>	<u>Name:</u>
<u>P2</u>	<u>E-waste Management & Recycling – Case study and best practices</u>	<u>Position:</u> <u>Affiliation:</u>
<u>P3</u>	<u>Plastic-waste Management & Recycling – Case study and best practices</u>	
<u>P4</u>	<u>SWM- Best Practices Compendium</u>	<u>Email :</u>
<u>P5</u>	<u>Recycling Business Models – Recycled Products and value chain</u>	<u>Mobile :</u>
<u>P6</u>	<u>Circular Economy in India</u>	

9th IconSWM-CE 2019 Registration Format : Please take out this format and submit this format filled in/typed to avoid queue in registration counter.

**Please fill the form and submit at the 9th IconSWM-CE Registration counter at KIIT.
(Write in Block Capitals letters)**

Name:

Designation:

Affiliation & Address:

.....

Contact No: E-mail id:

Payment details: Amount:by NEFT/RTGS/DD/Cash/Others

Payment Reference No (if any): Date:

Details:

DD details:

Date:

Bank Name: Branch Name:

Are you interested to work in the committee of 10th IconSWM 2020 ? **YES /NO** ; Are you interested to work in RESEARCH PROJECTS ? **YES /NO** ;

Signature:

-----Please Tear Here-----

This signed copy will be retained by the payee to produce at the time of delivery of the receipt.

Kindly issue money receipt of Amount..... For the author Dr./Mr./Ms.

Signature: (IconSWM Representative)