

The Twenty-Fifth International Conference on Solid Waste Technology and Management

Philadelphia, PA, USA

March 14 - 17, 2010

AGENDA

(updated February 21, 2010)

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**Widener
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The Journal of Solid Waste Technology and Management



Scientific Committee:

- Haluk Akgun, Middle East Technical University, Turkey
- Giuseppe Bonifazi, Sapienza – Università di Roma, Italy
- Shouu-Yuh Chang, North Carolina A&T State University, USA
- Thomas Coskeran, Scottish Government, UK
- Ruby Mejía de Gutiérrez, Universidad del Valle - Escuela de Ingeniería de Materiales, Colombia
- Mervat El-Hoz, University of Balamand, Lebanon
- Toru Furuichi, Graduate School of Engineering, Hokkaido University, Japan
- Kasturi Gadgil, I.I.T. Delhi, India
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- Ilan Nissim, Ministry of the Environment, Israel
- Sara Ojeda-Benitez, Autonomous University of Baja California Engineering Institute, México
- Chukwu Onu, Southern University and A & M College, USA
- Paul S. Phillips, University of Northampton, UK
- Eva Pongrácz, University of Oulu, Finland
- Jason Scott, The University of New South Wales, Australia
- Alfred H. Stiller, Monongalia County Solid Waste Authority, USA
- Jerry Uhuo, National Assembly, Abuja, Nigeria
- Bruce G. Wilson, University of New Brunswick, Canada
- Anita Závodská, Barry University, USA

CONFERENCE SUMMARY

SUNDAY, MARCH 14, 2010

Pre-Conference Tour of Philadelphia
Opening Reception

MONDAY, MARCH 15, 2010

Opening Plenary

Oral Presentations

- 1A Management Case Studies
- 1B Energy Recovery
- 1C Landfill 1

- 2A Industrial Wastes
- 2B Landfill 2
- 2C Recycling
- 2D Collection

- 3A Public Involvement and Education
- 3B Contaminated Sites
- 3C Environmental Impacts 1
- 3D Hazardous Wastes

- 4A Case Studies
- 4B Environmental Impacts 2
- 4C Materials Produced from Waste 1

Poster Session 1

TUESDAY, MARCH 16, 2010

Oral Presentations

- 5A Agricultural Wastes
- 5B Waste Generation and Composition
- 5C Materials Produced from Waste 2
- 5D Landfill 3

- 6A Ash
- 6B Composting and Biological Treatment 1
- 6C Policy and Management

Poster Session 2

Oral Presentations

- 7A Composting and Biological Treatment 2
- 7B Wood, Construction and Demolition Wastes
- 7C Integrated Management
- 7D Innovative Research

- 8A Chemical and Biochemical Treatment
- 8B Medical Wastes
- 8C Mining and Mineral Wastes

Closing Reception

WEDNESDAY, MARCH 17, 2010

Technical Field Trips

DETAILED AGENDA

SUNDAY, MARCH 14

12:00 p.m. - 6:00 p.m.

Conference check-in and registration

1:00 p.m. - 5:00 p.m.

Tour of Philadelphia
(additional fee)

5:00 p.m. - 6:00 p.m.

Welcome Reception

MONDAY, MARCH 15

8:00 a.m. - 5:30 p.m.

Conference check-in and registration

8:00 a.m. - 9:00 a.m.

Coffee

9:00 a.m. - 9:30 a.m.

Opening Plenary

9:30 a.m. - 11:05 a.m.

Sessions 1

SESSION 1A

Management Case Studies

Inefficient Or Not Correctly Enforced? Municipal Solid Waste Management Policies And Problems In Naples. *Stefania Romano*, Head of the Italian Trust Fund, Regional Environmental Center, **Hungary**

Applying Scientific Analysis and Life Cycle Thinking to UK Local Authority Decision Making. *Geoffrey Stevens*, Waste Strategy Research Associate, Newcastle University, **UK**

Approaches to Managing the MSW Problem in Malaysia: A Case Study with Policy Implications. *Jayanthi Sothirajah*, Graduate Student, Southern University & A&M College, **USA**

A Systems Approach to Solid Waste Analysis and Minimization and Case Study. *Matthew J. Franchetti*, Assistant Professor of Industrial Engineering, The University of Toledo, **USA**

SESSION 1B

Energy Recovery

Techno-Economic Performance Analysis of Small to Medium Scale Biomass Combustion Plants for Energy Production, *Chandni Patel*, PhD Chemical Engineering Student, University College London, *Paola Lettieri*, Reader in Chemical Engineering, University College London, *Stef Simons*, Professor in Chemical Engineering, University College London, Professor Antonino Germana, **United Kingdom**

Solar Steam Generating System for Cooking, *Vinod D. Gondkar*, Assistant Professor, Pravara Rural Engineering College, *Prof. Dr. Dilip R. Pangavhane*, Principal, NDMVP, College of Engineering, *Dr. Dharendra*, Principal, Pravara Rural Engineering College, Prof. R.W. Gaikwad, **India**

The Effect of Reducing Agents on the Co-Gasification of Coal, Plastic Waste and Wood, *Umberto ARENA*, Full professor of Chemical Engineering, Department of Environmental Sciences-Second University of Naples, *ZACCARIELLO*, Ph. D. Student, Department of Environmental Sciences-Second University of Naples, *Maria Laura MASTELLONE*, Associate Professor, Department of Environmental Sciences-Second University of Naples, **ITALY**

Novel Technologies for the Management of Drilling Fluid Waste in the Nigerian Oil & Gas Industry, *Chidubem Uchendu*, Ph.D Student, Aalborg Universitet Esbjerg, **Denmark**

Thermal Recycling of Solid Tire Wastes for Recovery of Energy and Valuable Chemicals: A Use of Fire-Tube Heating Pyrolysis Reactor, *Mohammad Rofiqul Islam*, Associate Professor & JSPS Postdoctoral Researcher, National University Corporation Kitami Institute of Technology, *Hiroyuki Haniu*, Professor, National University Corporation Kitami Institute of Technology, **Japan**

Design And Mathematical Modelling Of Low LCV Municipal Solid Waste Incinerator, *M. Ben OUMAROU*, PhD student, University of Maiduguri, *Professor A.T. SULEIMAN*, Lecturer, Bayero University, Kano, *Professor I. S. DISO*, Lecturer, Bayero University, Kano, **Nigeria**

SESSION 1C

Landfill 1

Determination of Landfill Settlement of a Municipal Solid Waste of Known Composition Based on (C+H)/L Values, *Dorairaja Raghu*, Professor, NJIT, *Joseph J Lifrieri*, Senior VP, PS&S, **USA**

Methane Emissions From A Landfill Site In South Brazil, *Vanessa C Ferreira Dias*, PhD Student, École Polytechnique de Montreal, *Armando Borges de Castilhos Junior*,

Professor, UFSC – Federal University of Santa Catarina, *Paulo Belli Filho*, Professor, UFSC – Federal University of Santa Catarina, *Débora Machando de Oliveira*, **Canada**

Interactive, Web-Based Landfill Gas Data Management, *David Adams, P.E.*, Project Director, Sanborn, Head & Associates, Inc., **USA**

Biogas Generation in the Landfill of Ensenada, Baja California Mexico., *Carolina Armijo de Vega*, Researcher, Facultad de Ingeniería, Universidad Autonoma de Baja California, *Quetzalli Aguilar Virgen*, Proffesor, Facultad de Ingeniería, Universidad Autonoma de Baja California, *Paul Adolfo Taboada González*, Facultad de Ingeniería, Universidad Autonoma de Baja California, *Sara Ojeda Benítez* and *Margarito Quintero Nuñez*, **Mexico**

11:05 a.m. - 11:20 a.m.

Break

11:20 a.m. – 1:10 p.m.

Sessions 2

SESSION 2A

Industrial Wastes

Investigation of the Organic Additives Treatment on Structural Properties of Waste-Chip Magnesium to be used as a Hydrogen Storage Material, *Aysel Kanturk Figen*, Ph.D. Student, Yildiz Technical University, Department Of Chemical Enginnering, *Sabriye Pişkin*, Prof.Dr., Yildiz Technical University, Department Of Chemical Enginnering, **Turkey**

Suitable Management Strategy for Disposal of Dye Laden Biomass following Biosorption of Dye on Aspergillus sp., *Prachi Kaushik*, Research Scholar, Indian Institute of Technology Delhi, *Dr. Anushree Malik*, Assistant professor, Indian Institute of Technology Delhi, **India**

Recovery of Manganese and Lead Values from Zinc Industry Anode Mud, *Dr. Navin Chandra*, Scientist-G, Advanced Materials And Processes Research Institute (CSIR), *Dr. S. S. Amritphale*, Scientist-F, Advanced Materials and Processes Research Institute (CSIR), *Deepti Pal*, Senior Research Fellow, Advanced Materials and Processes Research Institute (CSIR), **India**

Treatability Study for the Textile Industry by the Chemical Dosing: Removal of Colour, Odour and COD, *Rajendra Singh Thakur*, Research Scholar, School of Energy and Environmental Studies, *Rubina Chaudhary*, Reader, School of Energy and Environmental Studies, **India**

Molecular Characterization Of Serratia Sp. For Bioremediation And Detoxification Of Chromium In Leather Mill Effluent And Sludge, *Indu Shekhar Thakur*, Professor, Jawaharlal Nehru University, *Shaili Srivastava*, Research Associate Jawaharlal Nehru University, **India**

Industrial Waste Utilization: Development of Novel, Non-toxic and Highly Effective Radiation Shielding Materials for Constructing X-ray Diagnostic and CT Scanner Rooms, *Dr. Navin Chandara*, Scientist-G, Advanced Materials And Processes Research Institute (CSIR), *Dr. S. S. Amritphale*, Scientist-F, Advanced Materials and Processes Research Institute (CSIR), *Avneesh Anshul*, **India**

Identification of Technical and Biological Nutrients (cradle-to-cradle) towards Environmental Sustainability : A Case study of an Electrical and Electronic Equipment Industry in Malaysia, *Khairul Nadiah Ibrahim*, Lecturer, Universiti Kuala Lumpur, *Azmatun Abidin*, Student, Universiti Kuala Lumpur, *Nadia Razali*, Lecturer, Universiti Kuala Lumpur, **Malaysia**

Biomass loss of sawdust and sclerotia yield by biodegradation with Pleurotus tuber region, *O. J. Babayemi*, Senior Lecturer, University, *E. K. Elate*, PhD student, University, **Nigeria**

Waste Reduction Through Recycling of Submerged Arc Welding Slag, *Anjani Kumar*, Professor & Director, Shri Siddhi Vinayak Institute of Technology, Dr. (Prof.) Anjani Kumar, *Dal gobind Mahto*, Professor, Professor, Department of Mechanical Engineering, Green Hills Engineering College, **India**

Synthesis And Characterization Of An Iron Carbonate Composite, *David Stone*, CTO, Iron Shell, *Joan Curry*, Associate Professor, University of Arizona, *Janick Artiola*, Associate Professor, University of Arizona, **USA**

SESSION 2B

Landfill 2

Management Program for Landfill Sites, *Saleh Al-Muzaini*, **Kuwait**

Anchoring in LandFill, *Hamed Niroumand*, PhD, University Technology Malaysia, **Malaysia**

Model Development and Simulation of a GIS-Based Method for Evaluating Optimal Location for a Sanitary Landfill: A Philippine Case Study, *Amelia B. Gonzales*, Associate Professor, Bicol University, *Florencio C. Ballesteros, Jr.*, Ph.D., Assistant Professor, University of the Philippines Diliman, **Philippines**

Definition of Specific Quality of Siloxanes in Landfill Areas and Biogas Digester in Korea., *Che Yun Eom*, Researcher, Waste laboratory/Anyang University, *Nam hoon Lee*,

Professor, 708-113, Anyang 5-dong, Manan-gu, Anyang-shi, Kyonggi-do, 430-714, *Chaeyoung Lee*, Professor, 445-743 San2-2, Wau-ri, Bongdam-eup, Hwaseong-si, Gyeonggi-do, Korea, Sun-ho Song, Saerom Jung, Kwang bum Hur, **Republic of Korea**

Burrowing Animal Control on a California Landfill, *Mick Williams, PE*, Civil Engineer, Shaw Environmental & Infrastructure, Inc., **USA**

Utilization of Coal Combustion Residue in Reclamation of Mining Degraded Lands in Jharia Coalfields, India-A Case Study, *Dr. Biswajit Paul*, Assistant Professor, Indian School of Mines, **India**

Characterization of Terrain and Biotite Gneiss-Derived Lateritic Soils of Ilorin, Nigeria, For Use in Landfill Barriers, *IGE Olusegun Omoniyi*, Lecturer II, University of Ilorin, *OGUNSANWO Olufemi*, Professor, University of Ilorin, **Nigeria**

Pond Ash as a Landfill Liner – A Review, *Aditi Varma*, Student, Delhi College Of Engineering, *Ankit Garg*, Student, Delhi College Of Engineering, *Mayank Saxena*, Student, Delhi College Of Engineering, *Neelesh Khanna, Pranjal Sharma, Raju Sarkar*, **India**

Estimation of Leachate COD by ANFIS-Based Modeling of TVS and TS, *Mañon-Salas, M.C.*, PhD Student, UABC, *Moreno-Goytia, E.L.*, Researcher lecturer, Inst Tec. de Morelia, *Hernandez_Berriel, M.C.*, PhD Student, UMSNH, *Liliana Marquez-Benavides*, **Mexico**

SESSION 2C

Recycling

Electronic Waste Recycling in the US: The Need for a National Policy, *Millicent Addo*, Graduate Student, Southern University, *Jayanthi Sothirajah*, Graduate Student, Southern University, **USA**

Solid Waste Stream On-line Quality Control: New HyperSpectral Imaging Based Devices and Detection Logic Implementation for an Efficient Products Certification, *Giuseppe Bonifazi*, Full Professor, Sapienza - Università di Roma, *Silvia Serranti*, Senior Scientist, Sapienza - Università di Roma, **Italy**

Challenges and opportunities of urban solid waste management in Brazil: focusing on dialectic prevention-discard-collection-recycling and urban poverty, *Sylmara Lopes Francelino Goncalves Dias*, professor, Pontificia Universidade Catolica de Sao Paulo, *Ana Paula Bortoleto*, professor, The University of Tokyo, *Maria Cecilia Loschiavo dos Santos*, professor, Universidade de Sao Paulo, *Lucia Lucena de Andrade e Silva*, **Brazil**

Better Plastic Waste Management Practices and Local Technology for Improved Productivity in the Plastic Recycling Industry in Uganda, *Kenneth Tumusiime*, Managing Director/Waste Management Consultant, Plawaste Recycling Company (PRC) Ltd,

Uganda

Advanced Techniques for Recovery of Non-Ferrous Metals from Municipal Solid Waste, *Dipl.-Ing. Bastian Wens*, scientific staff, Department of Processing and Recycling I.A.R. at RWTH Aachen University, *Dipl.-Ing. Nico Schmalbein*, scientific staff, Department of Processing and Recycling I.A.R. at RWTH Aachen University, *Prof. Th. Pretz*, Professor, Department of Processing and Recycling I.A.R. at RWTH Aachen University, *Dipl.-Ing. Ronald Gillner*, **Germany**

Small Scale Paper Recycling In Addis Ababa, Ethiopia – A Show Case For Sustainable Waste Management And Income Generation In Developing Countries, *Mike Speck*, Deputy Department Head, IZES gGmbH, **Germany**

SESSION 2D *Collection*

Optimizing Waste Collection Routes, *Ewe-Leng Lim*, Chief Knowledge Officer, Institute of Information Technology, *Sumit Agarwal*, Director, Institute of Information Technology, **USA**

1:10 p.m. - 2:10 p.m.

Awards Luncheon

Presentation of the Russell Ackoff Award, Roy F. Weston Award and Iraj Zandi Award

2:10 p.m. – 3:55 p.m.

Sessions 3

SESSION 3A *Public Involvement and Education*

Realising a Structure for Recognising Waste Managers in Australia, *Dr Georgina Davis*, Director, D&H Consulting, **Australia**

Professionalism Pays: Industry Associations and CPD for the Waste Management Sector, *Dr Georgina Davis*, EdD Candidate, Griffith University, **Australia**

Key Variables for Proper waste Management in Higher Education Institutions in Enugu Nigeria, *Henrietta Obanya Uchenna*, Lecturer, Enugu State University of Science and Technology, *Chukwudebe Alexander Ikenna*, **Nigeria**

Strengthening Waste Management Education as a Strategy for Environmental Protection: The Role of the Media, *Nnabuchi Noble Onyemaechi*, Managing Director Editina Ventures Nigeria Limited, *Timothy Ndidi Onyiriuka*, Editina Ventures Nigeria Limited, *Emenike John A.*, University of Nigeria Nsukka, **Nigeria**

Environmental Education: A Key to Solid Waste Management in Developing Countries - The Case of Nigeria and Guyana, *Dr. Anita Závodská*, Assistant Professor, Barry Univeristy, *Mr. Jerry U. Uhuo*, Assistant Chief Research Officer, National Assembly, **USA/NIGERIA**

The Journey: Closed Mind to Closed Loop, *Dr Karl S Williams*, Director of Centre for Waste Management, University of Central Lancashire, *Mrs Shirley Newman*, Centre Manager, University of Central Lancashire, *Mr Ross Fielding*, Research Fellow, University of Central Lancashire, **United Kingdom**

Recovery of Plastic Bottles for Recycling: A Study of Responsible Environmental Behaviour at the University of the West Indies, Mona Campus, Kingston, Jamaica”, *Professor Elizabeth Thomas-Hope*, Director, Environmental Management Programme, The University of the West Indies, Mona Campus, *Dr. Claudel Noel*, Project Officer, Environmental Management Unit, UWI Mona Campus, **Jamaica**

Attitudes and Behavior of Middle-Income Housewives towards Minimization, Sorting and Recycling of Municipal Solid Waste, *M. El-Hoz, Ph.D.*, Department of Civil Engineering, The University of Balamand, **North Lebanon**

Bottom-Up approach for sustainable solid waste management, *Eugene Asi Ndum*, PhD candidate, University of Cottbus, **Germany**

SESSION 3B ***Contaminated Sites***

Integrated study for automobile wastes management plan and environmental friendly mechanic villages in Nigeria, *Michael Amamechi Nwachukwu*, PhD Research Student, Department of Earth and Environmental Studies, Montclair State University New Jersey, *Huan Feng*, Professor, Department of Earth and Environmental Studies, Montclair State University New Jersey, *Kennedy Achilike*, Assistant Professor, Department of Physics, Abia State University Uturu, **U.S.A./Nigeria**

Re-Establishment of Vegetation on Soil Contaminated by Battery Wastes in Response to Compost Application, *Adejumo Sifau Adenike*, Student, University of Ibadan, Ibadan, *Togun Adeniyi Olumuyiwa*, Professor, University of Ibadan, Ibadan, *Awodoyin Rasheed Olufemi*, Lecturer, University of Ibadan, Ibadan, **Nigeria**

Phytoremediation of Heavy Metals from Contaminated Sites of Tropical Region using Medicinal Plant *Catharanthus roseus*: Intercropping Patterns and Biotechnological Methodology Transfer to the Farmers for their Developments, *Prof. Neelam Misra*, Professor, Crescent University, *Rahul Misra*, Student, Vellore Institute of Technology, *Dr. Preeti saxena*, Assistant Professor, Shri Siddhi Vinayak Institute of Technology, Bareilly (Near Station Dhona, Nainital Road), **Nigeria/India**

Remote Sensing Technologies applied to Rehabilitation Monitoring of Large Contaminated Mining Sites. *Giuseppe Bonifazi*, Full Professor, Sapienza - Università di Roma, *Silvia Serranti*, Senior Scientist, Sapienza - Università di Roma, Fabio Volpe, **Italy**

Field Assessment of Lead Immobilization in a Contaminated Soil after Compost Application. *Adejumo Sifau Adenike*, Student, University of Ibadan, Ibadan, *Togun Adeniyi Olumuyiwa*, Professor, University of Ibadan, Ibadan, *Adediran James A.*, Professor, Institute of Agricultural Research and Training, *Ogundiran Mary Bosede*, **Nigeria**

Effect of Tannery Sludge on Antioxidant Enzymes and Antitumor Agents in Catharanthus Roseus. *Preeti Saxena*, Assistant Professor, Shri Siddhi Vinayak Institute of Technology, *Dr. Neelam Misra*, Amity University Uttar Pradesh, *Dr. Rumana Ahmad*, Senior Post Doctoral Fellow, Department of Urology, University of Washington, Seattle, W.A., *Dr. Subhas Awasthi*, CEO, Banthar Industrial Pollution Control Company, Unnao **India, USA.**

Ecological Revitalization of Contaminated Properties. *Michele Mahoney*, Environmental Scientist, US EPA, **USA**

SESSION 3C ***Environmental Impacts 1***

Rural Solid Waste Management: A Case Study of Five Villages in Tamil Nadu in India. *Muniyandi Balasubramanian*, Research Scholar, Madurai Kamaraj University, *Dhulasi Birundha*, Senior Professor, Madurai Kamaraj University, **India**

The Application of Advanced Computer Simulation for the Evaluation of Pollution Prevention and Life Cycle Assessment. *Jacob Guidosh*, Graduate Student, Youngstown State University, **United States**

Waste Wealth for Sustainability. *Salil K Sen*, PhD, Consultant, the Practice of Sustainability and Assistant Professor, Muban Chombueng Rajabhat University, *Dr Winai Chumcheun*, Director, Graduate School, Muban Chombueng Rajabhat University, *Dr Chanchai Yomdit*, President, Muban Chombueng Rajabhat University, *Dr Winai Chumcheun*, *Dr Chanchai Yomdit*, **Thailand**

Reducing Solid Waste Generation Through Environmental Tax Policy in Nigeria: The Case of Enugu State. *Mr. Ozigbo Peter Robert Jachukwuike*, Department of Economics, *Odoziobodo Severus Ifeanyi*, Senior Lecturer, Department of Political Science, ESUT, *Alu Kevin Emeka*, Department of Economics. ESUT, **Nigeria**

Environmental Impact of Wet Coffee Processing By-Products on Freshwater Resources of Jimma District, Ethiopia. *Yared Kassahun Kebede*, Assistant Researcher II, Ethiopian Institute of Agricultural Research, *Dr. Fassil Assefa*, Associate Professor, Addis Ababa University, *Dr. Aklilu Amsalu*, Assistant Professor, Addis Ababa University, Tesfu Kebede, **Ethiopia**

Evaluation of the Toxicity Characteristic Leaching Procedure (TCLP) of Galvanic Sludge. *Mehmet Burcin Piskin*, Dr, Yildiz Technical University, *Muge Sari Yilmaz*, PhD. Student, Yildiz Technical University, **Turkey**

Climate Change, Policy And Its Impact: Municipal Solid Waste Generation in India. *Anupam Khajuria*, Doctoral Student, Osaka University, Osaka., *Takanori Matsui*, Assistant Professor, Osaka University, Osaka., *Takashi Machimura*, Associate Professor, Osaka University, Osaka., *Tohru Morioka*, Professor, Graduate School of Engineering, Osaka University, Yamadaoka 2-1, Suita, Osaka 565-0871, **JAPAN**

Eco-Friendly Solid Waste Treatment: Option to Reduce Climate Change. *Sivakumaran Sithamparanathan*, Solid Waste Management Specialist, United Nations Office for Project Services, *Debra A Mackeen*, Programme Manager, United Nations Office for Project Services, *Sivatharshini Ganesamoorthy*, University of Moratuwa, **Sri Lanka**

Pollution Management with Special Reference to Municipal Solid Waste Management in Salem City. *Dr.S.Chinnammai*, Asst.Professor, University Of Madras, *D.JANAGAM*, Asst.Professor, Pariyar University, **India**

Impact of Coal Beneficiation on the Quality of Surrounding Soil and Inhabitant Health. *Ram LC*, Deputy Director & Head, Central Institute of Mining and Fuel Research (Digwadih Campus), *Masto RE*, Scientist C, Central Institute of Mining and Fuel Research (Digwadih Campus), *Selvi VA*, Scientist C, Central Institute of Mining and Fuel Research (Digwadih Campus), *Joshy George*, *Tripathi RC*, *Sinha AK*, *Srivastawa NK*, *Routh R*, *Verma SK*, *Priyadarshini*, *Pritish*, **India**

Reducing Solid Waste Generation Through Environmental Tax Policy in Nigeria: The Case of Enugu State. *Mr. Ozigbo Peter Robert Jachukwuike*, Department of Economics, *Odoziobodo Severus Ifeanyi*, Senior Lecturer, Department of Political Science, ESUT, *Alu Kevin Emeka*, Department of Economics. ESUT, **Nigeria**

SESSION 3D ***Hazardous Wastes***

Tensile Strength of a Cementitious Borehole Seal Emplaced in the Vicinity of an Underground Waste Repository. *Haluk Akgun*, Professor, Regional Editor, Middle East Technical University, **TURKEY**

Long-Term Stabilization of Arsenic-Bearing Residuals in Environmentally Benign Mineral Phases, *Madhumitha Raghav*, Graduate Research Assistant, University of Arizona, *Jilei Shan*, Engineer, Los Angeles County Sanitation District, *I-Tso Chen*, Undergraduate student, University of Arizona, A. Eduardo Sáez, Wendell P. Ela, **United States**

Waste Management of Mercury Containing Backlights from Liquid Crystal Displays, *Dr Karl S Williams*, Director of Centre for Waste Management, University of Central Lancashire, *Mr Timothy McDonnell*, Postgraduate Researcher, University of Central Lancashire, **United Kingdom**

Comparative Analysis and Human Health Risk Assessment of Household Hazardous Waste at Local Authorities in Malaysia, *Rosli bin Mohamad*, Director of Health and Environmental Department and Student Ph.D in Environmental Engineering, Kemaman Municipal Council, 24000, Kemaman, Terengganu, Malaysia and Faculty of Civil Engineering, Environmental Engineering, University of Technology Malaysia, 81310, Skudai, Johor, Malaysia, *Mohd Razman bin Salim*, Profesor, Faculty of Civil Engineering, University of Technology Malaysia, *Johan bin Sohaili*, Profesor, Faculty of Civil Engineering, University of Technology Malaysia, **Malaysia**

Sonoleaching: Development of a Rapid Determination of Pb from Stabilized Waste Using Ultrasound Assisted Leaching, *Luzvisminda M. Bellotindos*, Associate Professor, Universidad de Zamboanga, *Maria Lourdes P. Dalida*, Assistant Professor, Chemical Engineering Dept., College of Engineering, University of the Philippines, *Genandrialine L. Peralta*, Regional Director for Environmental Health Hazard, World Health Organization, Ming-Chun Lu, Herman D. Mendoza, **Philippines**

The Influence of the Temperature of Calcination on the Leaching of Galvanic Sludge, *Ozgul Dere Ozdemir*, PhD. Student, Yildiz Technical University, *Sabriye Pişkin*, Professor, Yildiz Technical University, **Turkey**

3:55 p.m. - 4:10 p.m.

Break

4:10 p.m. – 6:00 p.m.

Sessions 4

SESSION 4A

Case Studies

Environmental Management Of Municipal Waste In Developing Countries – A Case Study Of Lahore City (Pakistan), *Mumtaz Hussain*, Chairman, Society for Conservation of Environment & Sustainable Development, *Mumtaz Hussain*, Chairman, Society for Conservation of Environment and Sustainable Development, Dr Aizad Mumtaz & Saniea Mumtaz, **Pakistan**

Scavenging Activities and Environmental Management in Greater Port-au-Prince, Haiti.,
Dr. Claudel Noel, Project Officer, Environmental Management Unit, UWI Mona
Campus, **Jamaica**

Treasure In The Trash In Nigeria – Case Study Of Solid Waste Source Sorting
Alternative In Benin Metropolis, *Dennis iyeke Igbinomwanhia*, Lecturer, University of
Benin, *Ejovo Nena Ohwovorirole*, Prof, University of Benin, **Nigeria**

Environmental Management Measures and Current Practices in Solid Waste
Management: A Case Study From Vientiane, Lao People’s Democratic Republic,
Bounsouk Souksavath, Head of Environmental Engineering Section, Department of Civil
Engineering, Faculty of Engineering, National University of Laos, *Bhoj Raj Khanal*,
Research Associate, Office of the GMSARN Secretariat, Asian Institute of Technology,
Laos

Success Story: Established a Proper Solid Waste Management in Local Authority Level -
A Case Study in Sri Lanka, *Mr. Fasly MSM.*, Project Assistant, Pilisaru Project, Central
Environmental Authority., *Fazeena MAH.*, Field Coordinator, Genius Consultants, *Fahad*
Samaan, Field Officer, Genius Consultants, **Sri Lanka**

New Approach on Solid Waste Management at Kathmandu Valley in Nepal, *Dr. Sumitra*
Amatya, General Manager, SWMRMC, *Dr. Dinesh Chandra Devkota*, Member, National
Planning Commission, *Reshmi Raj Pandey*, Joint Secretary, Ministry of Local
Development, **Nepal**

Household Solid Waste Characteristics and Management Practices in Dar es Salaam City,
Tanzania., *Aisa Oberlin Solomon*, Lecturer, Dar Es Salaam Institute of Technology, *Peter*
Oosterveer, Senior Lecturer, Wageningen University, *Gert Spaargaren*, Professor,
Wageningen University, **Tanzania**

Solid Waste Reduction in Nigeria Cities (Lagos), *Saturday A. Okeh*, Student, University
of Gent, **Belgium**

Problems of Solid Waste Management, *Chukwu Onu*, Professor, Southern University,
USA

SESSION 4B

Environmental Impacts 2

Cartographic Mapping of World Pollutants, *Ashraf Ghaly*, Professor, Union College,
USA

Source-Separation of Solid Household Waste from a Life-Cycle Perspective – A Swedish
Case Study, *Anna Bernstad*, PhD-student, Lund University, *Jes la Cour Jansen*,
Professor, Lund University, *Henrik Aspegren*, PhD, VA SYD, Malmö Municipality,

Sweden

Use of Waste Rubber and Fly Ash in Developing a Greener Pervious Concrete, *Ashraf Ghaly*, Professor, Union College, *Elias Samia*, Student, Union College, **USA**

Phospholipid Fatty Acid and Phospholipid Ether Lipid Analysis to Monitor In-Situ Aeration Phases of Waste Materials, *Maren Mellendorf*, Phd student, University of Natural Resources and Applied Life Sciences, Department of Forest,-and Soil Sciences, Institute of Soil Research, *Marion Huber-Humer*, University Assistant, University of Natural Resources and Applied Life Sciences, Department of Water-Atmosphere-Environment, Institute of Waste Management, *Andrea Watzinger*, University Assistant, University of Natural Resources and Applied Life Sciences, Department of Forest,-and Soil Sciences, Institute of Soil Research, *Martin H.Gerzabek*, *Pia Huber*, *Oliver Gamperling*, **Austria**

SESSION 4C

Materials Produced from Waste 1

Friction and Wear Behaviour of Vinylester Resin Matrix Composites Filled with Redmud particles, *Dr. S.K. Acharya*, Associate-Professor, Nit,Rourkela, *Crdeo*, Research Scholar, Nit Rourkela, *P.Mishra*, Research Scholar, Nit Rourkela, **India**

Effect of Foundry Sand as Partial Replacement of Fine Aggregates on Concrete Properties, *Yogesh Aggarwal*, Assistant Professor, National Institute of Technology, *Rafat Siddique*, Professor, Thapar University, *S.M.Gupta*, Associate Professor, N.I.T., *Paratibha Aggarwal*, **India**

Recycling of Milled Waste Glass in Concrete – Field Investigation, *Roz-Ud-Din Nassar*, PhD candidate, Michigan State University, *Parviz Soroushian*, Professor, Michigan State University, **USA**

An Experimental Investigation of Fiber Reinforced Polymeric Composites Repair, *A.M. El-Habak*, Cairo University, *Adly A. M.*, *Ibrahim S.S.*, *Dr. Abd Elhalim Elhabak*, **Egypt**

Compressive strength and abrasion resistance of the rubberized concretes containing slag, *Erdogan Ozbay*, Asst. Prof., Mustafa Kemal University, *Umur Korkut Sevim*, Asst. Prof., Mustafa Kemal University, *Baran CAGLAR*, MsC student, Mustafa Kemal University, **Turkey**

Valorization Of Waste Rubber: Influence Of The Volume Proportion Of The Rubber Aggregates On The Delayed Deformations Under Constant Load Of Eco-Concrete Rubber Formulated With Rubber Waste, *Said Abdelmoumen*, Ph.D., Engineering Materials and Processes (EMAP) - Laboratory for Innovation Technologies, University of Picardie Jules Verne, *Emmanuel Bellenger*, Dr, Engineering Materials and Processes (EMAP) - Laboratory for Innovation Technologies, University of Picardie Jules Verne,

Michèle Quéneudec-t'Kint, Professor, Engineering Materials and Processes (EMAP) - Laboratory for Innovation Technologies, University of Picardie Jules Verne, **France**

The Use Of Drilling Cuttings Waste In The Manufacture Of Clay Bricks, *Hanan El Sersy*, **Egypt**

Preparation and Characterisation of low cost composite from sugarcane bagasse waste, *S.K.Mehar*, lecturer, KIT,Raigarh,(CG),India, *P.Mishra*, Research Scholar, Nit Rourkela, *Drs.K.Acharya*, Associate-Professor, Nit Rourkela, **India**

Domestic Solid Waste Quantity and composition analysis, *Yitayal*, Environmentalist, Addis Ababa University, Addis Ababa, Ethiopia, *Prof. Tenalem Ayenew*, Hydrogeologist, Addis Ababa University, Addis Ababa, Ethiopia, *Dr. Feleke Zewge*, Chemical Engineer, Addis Ababa University, Addis Ababa, Ethiopia, *Prof. Kebede Faris*, **USA**

6:00 p.m. – 7:00 p.m. 6:30 p.m. – 7:30 p.m.
Posters 1 **Reception**

POSTER SESSION 1

Vegetative Amelioration of Solid Waste Disposal Site; The Case Study of Adana-Sofulu-Turkey", *Reyhan Erdogan*, Assist.Prof.Dr. Akdeniz University, *Zeynep Zaimoglu*, Assoc.Prof., Cukurova University, *Meryem Atik*, Assist.Prof., Akdeniz University, *Zeynep Zaimoglu*, *Meryem Atik*, **Türkiye**

The Study of Influence on Pavement's Surface Texture And Friction with Basic Oxygenfurnace Slag, *Shih-Huang Chen*, Associate professor, Dept. of Transportation Technology and Management, Feng-Chia University, Taichung, *Jyh-Dong Lin*, Professor, Dept. of Civil Eng., National Central University, *Chang-Hua Yu*, Master Student, Dept. of Transportation Technology and Management, Feng-Chia University, Taichung, *Chung Hung-Wen*, *Ming-Chin Yeh*, *Ching-Tsung Hung*, **Taiwan**

Increase in Energy Efficiency of Composting by Bio Leaching, *Dipl.-Ing. Nils Bauerschlag*, scientific staff, Department of Processing and Recycling I.A.R. at RWTH Aachen University, *Prof. Th. Pretz*, Professor, Department of Processing and Recycling I.A.R. at RWTH Aachen University, **Germany**

Extraction of Silica and Alumina From Coal Fly Ash Using Response Surface Methodology for The Synthesis Of Zeolites, *Rose Aini Kamarudin*, Principal Lecturer, Universiti Tenaga Nasional, *Abdul Salam Matlob*, Ph D student, Universiti Tenaga

Nasional, *Zaemah Jubri*, Senior Lecturer, Universiti Tenaga Nasional, *Zainab Ramli*, Universiti Teknologi Malaysia, **Malaysia**

Environmental Impact of wet coffee processing by-products on freshwater resources of Jimma district, Ethiopia, *Yared Kassahun Kebede*, Assistant Researcher II, Ethiopian Institute of Agricultural Research, *Dr. Fasil Assefa*, Associate Professor, Addis Ababa University, *Dr. Aklilu Amsalu*, Assistant Professor, Addis Ababa University, Tesfu Kebede, **Ethiopia**

Siloxanes in Mechanical-Biological Treatment plants, *Stephan Mattersteig*, scientific assistant, Dresden University of Technology, Institute of waste management and contaminated site treatment, *Lilly Brunn*, scientific assistant, Dresden University of Technology, Institute of waste management and contaminated site treatment, *Prof. Dr.-Ing. habil. Dr. h.c. Bernd Bilitewski*, head of institute, Dresden University of Technology, Institute of waste management and contaminated site treatment, Dr. rer. nat. Matthias Friese; position: supervisor of the measuring institute; company: Mattersteig&Co. GmbH; address: Zwenkauer Str 159, 04420 Markranstaedt; Germany; m.friese@mattersteig-und-co.de, **Germany**

Waste Wealth for Sustainability, *Salil K Sen*, *PhD*, Consultant, the Practice of Sustainability and Assistant Professor, Muban Chombueng Rajabhat University, *Dr Winai Chumcheun*, Director, Graduate School, Muban Chombueng Rajabhat University, *Dr Chanchai Yomdit*, President, Muban Chombueng Rajabhat University, Dr Winai Chumcheun, Dr Chanchai Yomdit, **Thailand**

Evaluation of Inoculation of phosphate solubilizing Microorganisms in During Composting of Sugarcane Bagasse on phosphate availability, *ladan razikordmahalleh*, senior expert, department of environment, **Iran**

Treatability Study for the Textile Industry by the Chemical Dosing: Removal of Colour, Odour and COD, *Rajendra Singh Thakur*, Research Scholar, School of Energy and Environmental Studies, *Rubina Chaudhary*, Reader, School of Energy and Environmental Studies, **India**

Novel technologies for the management of drilling fluid waste in the Nigerian oil & gas industry, *Chidubem Uchendu*, Ph.D Student, Aalborg Universitet Esbjerg, Denmark, **Denmark**

Initiatives For Sustainable E-waste Management in Universiti Kebangsaan Malaysia (UKM), *John Babington Chibunna*, Ph.D Research Student, Institute For Environment and Development, Universiti Kebangsaan Malaysia, *Prof. Chamhuri Siwar*, Professor, Institute For Environment and Development, Universiti Kebangsaan Malaysia, *Dr Ahmad Fariz Mohamed*, Senior Research Fellow, Institute For Environment and Development, Universiti Kebangsaan Malaysia, Dr Rawshan Ara Begum, **Malaysia**

Proposal of Management Plan of Civil Construction Waste for Horizontal Condominium

in Goiânia - Br, Michele Tereza Marques de Carvalho, DsC, Universidade de Brasília, Cybelli Gonçalves Gregório Barbosa, Specialist in Environmental Management, Ana Gabriela Leandra de Souza Cruz, Specialist in Environmental Management, Patrícia Sampaio Moraes, Specialist in Environmental Management, **Brazil**

Study on Fly Ash from Refuse-Derived Fuel Combustion in Fluidized Bed Boilers as Admixtures for Concrete Mixing, Li-Hsu Yeh, Chen-Yu Hsu, Ph.D Research Student, Department of Civil Engineering, National Central University, Ming-Yu Lee, Vice President, Yien-Gu Environment Engineering Co., Ltd., Jyh-Dong Lin, Professor, Department of Civil Engineering, National Central University, , **Taiwan**

Potential of Non-Ferrous Metals in separate waste streams, Dipl.-Ing. Ronald Gillner, Scientific Staff, Department of Processing and Recycling I.A.R. at RWTH Aachen University, Prof. Th. Pretz, Professor, Department of Processing and Recycling I.A.R. at RWTH Aachen University, Bastian Wens, Scientific Staff, Department of Processing and Recycling I.A.R. at RWTH Aachen University, **Germany**

Utilization of Hatchery by-products as Feed Ingredients in Broiler Chicken Feed, Khadka D.B., Student, Wageningen University, Subba D, Professor, Central Campus of Technology, **Netherland**

Studies on the Removal of Cd(II), Pb(II) And Cr(VI) From Aqueous Solutions by Adsorption on Low-Grade Bituminous Coal., Ved Vati Singh, student, indian institute of technology, delhi, india-110016, T.A. Khan, Professor, jamia millia islamia, university, delhi, india-110025, **India**

CO2 Emission Mitigation Potential of Rice Husks for Angiang Province, Vietnam, PHAM Thi Mai Thao, PhD. Student, The University of Tokyo, Kiyo KURISU, Assoc. Professor, The University of Tokyo, Keisuke Hanaki, Professor, The University of Tokyo, **Japan**

Hydraulic Mortars Made by Lime and Sand Obtained from Brick and Fly Ash, Pietro Ubbriaco, Aggregato Professore, D.I.C.A. Politecnico di Bari, Angela Traini, Associato professor, Dipartimento di Chimica, Università di Bari, Dino Manigrassi, Esercitatore Professor, A.E.R.Consulting srl, Giulia Mastrodonato, Esercitatore Professor, Politecnico di Bari, **Italy**

Characterization and Potential Application of Solid Waste Generated from Biodiesel Production Process, Chen, Lu-Ming, Research Assistant/Ph.D. Graduate Student, Institute of Natural Resource Sustainability/University of Illinois, Chou, Mei-In Melissa, Project Leader/Adjunct Professor, Institute of Natural Resource Sustainability/University of Illinois, **USA**

Future of Project Based Mechanisms in the Waste Management Sector with a special view on the prospective American Offset Market, Christian Pacher, Felix Nickel, Roland Geres, Consultant, FutureCamp Climate GmbH, Felix Nickel, Consultant, FutureCamp

Climate GmbH, **Germany**

A Case Study Of Residents' Behavior In Recycling Renewable Resources From Collection Sites In China, *Chun-ping Li*, postdoctor, Tsinghua University, **China**

Distribution Characteristics Based Air Quality Evaluation Of MSW Css And Residential Areas In Haidian District, *Chun-ping Li*, postdoctor, Tsinghua University, **China**

TUESDAY, MARCH 16

8:00 a.m. - 5:30 p.m.
Conference check-in and registration

8:00 a.m. – 8:30 a.m.
Coffee

8:30 a.m. - 10:30 a.m.
Sessions 5

SESSION 5A *Agricultural Wastes*

Numerical Modeling of Nitrogen Balance for Cow Manure Management in Daily Farms, *Kazuei Ishii*, Assistant Prof., Graduate School of Engineering, Hokkaido University, *Toru Furuichi*, Professor, Graduate School of Engineering, Hokkaido University, *Noboru Tanikawa*, Associate Prof., Graduate School of Engineering, Hokkaido University, Shogo Nitta, **Japan**

Hydrothermal Degradation of Rice Bran Biomass to Phenolic Compounds in Subcritical Water Medium, *Feridoun Salak Asghari*, Assistant Professor, Osaka Prefecture University, *Omid Pourali*, Student, Osaka Prefecture University, *Hiroyuki Yoshida*, Professor, Osaka Prefecture University, **Japan**

Energy Recovery from Fixed Bed Fire Tube Heating Pyrolysis of Agricultural Waste—Jute Stick, *Mohammad Rofiqul Islam*, Associate Professor & JSPS Postdoctoral Researcher, National University Corporation Kitami Institute of Technology, *Momtaz Parveen*, PhD Researcher, National University Corporation Kitami Institute of Technology, *Hiroyuki Haniu*, Professor, National University Corporation Kitami Institute of Technology, **Japan**

The Nutrient Content of Solid Fraction Recovered from Mechanical Separation of Liquid Manure in Swine Industry, *Dr. Michael A. Aloria*, Dean, College of Engineering, AMA International University-Bahrain, **Kingdom of Bahrain**

Study of Chemical Recovery Process From Spent Liquor of Catalyzed Acetic Acid pulping of Rice Straw, *Akhouri Sanjay Kumar Sinha*, Assistant Professor, S.L.I.E.T.

LONGOWAL, *Manohar Singh*, Principal, Guru Nanak Dev Engineering College,
Surendra Pal Singh, Associate Professor, Indian Institute of Technology, **INDIA**

Application of Subcritical Water Treatment for Edible Oil Production from Rice Bran Biomass. *Omid Pourali*, Student, Osaka Prefecture University, *Feridoun Salak Asghari*, Assistant Professor, Osaka Prefecture University, *Hiroiyuki Yoshida*, Professor, Osaka Prefecture University, **Japan**

Development of Insulating Material from Sugarcane Bagasse, Coconut Fiber and White Glue. *Dr Khadija Qureshi*, Associate Professor, Mehran University Of Engineering and technology Jamshoro, *Inamullah Bhatti*, Assistant Professor, Mehran University of Engineering and technology, *Dr Abdul Khalique Ansari*, Professor, Mehran University Of Engineering and technology, **Pakistan**

Potential Utilization of Grass as Solid-Fuel (Briquette) in Nigeria. *Olalekan Saheed ALADE*, Teaching Assistant, Nigeria, *Eriola BETIKU*, Senior Lecturer, Obafemi Awolowo University, *Bamidele Ogbe Solomon*, Professor, National Biotechnology Development Agency, **Nigeria**

Use of Sesame Husks for Developing Biocomposites. *Kunal Das*, Project Fellow, Dept. of Polymer Science and Technology, University of Calcutta, **India**, *Dipa Ray*, Lecturer, University Of Calcutta, **India**, *Suparna Sengupta*, Associate Research, IACS, Jadavpur, *Amar K. Mohanty*, Professor and Premier Research Chair, Department of Plant agriculture, University of Guelph, **Canada** *Manjusri Misra*, Associate Professor, School of Engg. And the Department of Plant Agriculture, University of Guelph, **Canada**

Concomitant Production of Thermostable Amylase and Protease from Bacillus sp. By Solid State Fermentation. *Dr. Rajni Singh*, Assistant Director, Amity University Uttar Pradesh, *Rajshree Saxena*, Research Scholar, Amity University Uttar Pradesh, **India**

SESSION 5B

Waste Generation and Composition

Per Capita Solid Waste Generation of Three Different Economic Classes, A Case Study of Bhopal. *Manzoor Ahmad Bhat*, Research Scholar, University, *H. S Yadav*, Professor, University, *Vipin Vyas*, Lecturer, University, *Ovais Ahmad and Rais Ahmad Bhat*, **India**

Municipal Solid Waste Characterization and Its Assessment for Potential Recycling Activities: A Case Study in Kocaeli, Turkey. *Ertan Durmusoglu*, Associate Professor, University of Kocaeli, *Melek K. Yenice*, Environmental Engineer, Kocaeli Metropolitan Municipality, *Ozlem Erkan*, Environmental Engineer, IZAYDAS, *Aykan Karademir*, *Savas Ayberk*, **Turkey**

An Examination of Household Solid Waste Generation In Mekong Delta City, Vietnam. *Nguyen Phuc Thanh*, PhD. student, Graduate School of Environmental Science,

Okayama University, *Yasuhiro Matsui*, Ass. Professor, Graduate School of Environmental Science, Okayama University, *Takeshi Fujiwara*, Professor, Graduate School of Environmental Science, Okayama University, **Japan**

E-waste Management For Sustainable Campus: A Case Study of Universiti Kebangsaan Malaysia, *John Babington Chibunna*, Ph.D Research Student, Institute For Environment and Development, Universiti Kebangsaan Malaysia, *Prof. Chamhuri Siwar*, Professor, Institute For Environment and Development, Universiti Kebangsaan Malaysia, *Dr Ahmad Fariz Mohamed*, Senior Research Fellow, Institute For Environment and Development, Universiti Kebangsaan Malaysia, Dr Rawshan Ara Begum, **Malaysia**

Awareness on E-waste Management: A Case Study of Universiti Kebangsaan Malaysia (UKM), *John Babington Chibunna*, Ph.D Research Student, Institute For Environment and Development, Universiti Kebangsaan Malaysia, *Prof. Chamhuri Siwar*, Professor, Institute For Environment and Development, Universiti Kebangsaan Malaysia, *Dr Ahmad Fariz Mohamed*, Senior Research Fellow, Institute For Environment and Development, Universiti Kebangsaan Malaysia, Dr Rawshan Ara Begum, **Malaysia**

Developing a 21st Century Waste to Energy Facility in American Samoa, *Michelle Mulet Nicholls*, Project Manager, SCS Engineers, *Marc J. Rogoff, Ph.D.*, Project Director, SCS Engineers, **USA**

Solid Waste Prediction and Characterization Modeling for Manufacturing and Service Facilities, *Matthew J. Franchetti*, Assistant Professor of Industrial Engineering, The University of Toledo, **USA**

Wood Waste Generation in Ilorin Metropolis: Problems, Management and Prospects, *Dr. Olumuyiwa A. LASODE*, Senior Lecturer, University of Ilorin, *BALOGUN, Ayokunle Oluwabusayo*, Principal Mechanical Engineer, Lower Niger River Basin Development Authority, **Nigeria**

Municipal Solid Waste Management in Chile: Current System and Energy Potential from MSW, *Dipl.-Wi.-Ing. Eva Hamatschek*, Ph.D. Student, ATZ Entwicklungszentrum, *Prof. Dr.-Ing. Martin Faulstich*, Head of Institute, Technical University of Munich; Institute of Resource and Energy Technology, **Germany**

Optimizing Waste Collection Routes, *Ewe-Leng Lim*, Chief Knowledge Officer, Institute of Information Technology, *Sumit Agarwal*, Director, Institute of Information Technology, **USA**

Ecological Revitalization of Contaminated Properties, *Michele Mahoney*, Environmental Scientist, US EPA, **USA**

Can in Hand: From Physical Waste Audits to Creating a Customizable Simple Waste Audit (SWA) Toolkit, *Jordan Musser, M.S.*, West Virginia University, *Barbara L.*

MacLennan, M.A., M.S.J., Monongalia County Solid Waste Authority, *Laura J. Stiller*, Recycling Coordinator, Monongalia County Solid Waste Authority, *Dr. Alfred Stiller*, MCSWA Board Member Monongalia County Solid Waste Authority, **USA**

SESSION 5C

Materials Produced from Waste 2

Use of Foundry Sand and Bottom Ash in Concrete, *Yogesh Aggarwal*, Assistant Professor, National Institute of Technology, *Rafat Siddique*, Professor, Thapar University, *S.M.Gupta*, Associate Professor, N.I.T., Paratibha Aggarwal, **India**

Preliminary Investigation Into Utilization Of Wastes From Iron And Steel Industries In Nigeria As Fine Aggregate Replacement In Concrete Application, *Akinbinu Victor Abioye*, Lecturer Ii, Federal University Of Technology, Akure Nigeria, **Nigeria**

Estimating the Fracture Toughness Using Mechanical Properties for Composites, *Kamel M.M.* Cairo University, *Ibrahim S.S.* Cairo University, **Egypt**

Comparisons of Compressive Strength of Concrete Block Made with Steel Slag Waste and Iron Ore Tailing Aggregates, *Akinbinu Victor Abioye*, Lecturer Ii, Federal University Of Technology, Akure Nigeria, **Nigeria**

Geotechnical And Waste Materials, *Hamed Niroumand*, PhD, University Technology Malaysia, **Malaysia**

Assessment of Plastic Waste Generation and Inventorization of Plastic Manufacturing Units in Madhya Pradesh, *Alok Srivastava*, Principal Secretary, Housing & Environment Deptt, Govt of M.P., *R.K. Jain*, Member Secretary, M.P.Pollution Control Board, *M.L. Patel*, Executive Engineer, M.P.Pollution Control Board, **India**

SESSION 5D

Landfill 3

Environmental geological assessment of a Solid Waste Disposal site: a case in Ilorin, Southwestern, Nigeria., *IGE Olusegun Omoniyi*, Lecturer II, University of Ilorin, *OGUNSANWO Olufemi*, Professor, University of Ilorin, **Nigeria**

Landfill Site Selection Using GIS and Analytical Hierarchy Process, *Abdollah Ardeshir*, Associate Professor, Head of Environmental Research Center, Amirkabir University of Technology (Tehran Polytechnic), *Kouros Behzadian*, Assistant Professor, Environmental Research Center, Amirkabir University of Technology (Tehran Polytechnic), *Fatemeh Dadashian*, Assistant Professor, Textile Engineering, Amirkabir University of Technology (Tehran Polytechnic), *Elya Mohtashami*, **Iran**

Assessment of Contaminated Water (Leachate) and Ground Water Quality Around

Trenching Ground of Indore and Ujjain City, *Abdul Saleem Khan*, Reader, Civil Engineering, Ujjain Engineering College, Ujjain (M.P.), *Dr. S. M. Narulkar*, Professor Civil & Applied Mechanics Department, S.G.S.I.T.S., Indore (M.P.), **India**

Modeling of Horizontal Trench Systems for Leachate Recirculation in Bioreactor Landfills, *Krishna Reddy*, Professor, University of Illinois at Chicago, *Hanumanth S. Kulkarni*, Graduate Research Assistant, University of Illinois at Chicago, **USA**
Using the HELP Model for More Than Estimating Leachate Generation, *Eric S. Steinhauser*, Senior Project Director, Sanborn, Head & Associates, Inc., *Brian J. Beaudoin*, Project Manager, Sanborn, Head & Associates, Inc., *Kelly M. Anderson*, Senior Project Engineer, Sanborn, Head & Associates, Inc., *Paula J. Mouser*, **USA**

10:30 a.m. - 10:45 a.m.

Break

10:45 a.m. – 12:30 p.m.

Sessions 6

SESSION 6A

Ash

Study of use of Beneficiated Pulverized Coal Fly-ash as Filler and Rice Straw Fibers in Manufacturing of Paper, *Akhoury Sanjay Kumar Sinha*, Assitant Professor, S.L.I.E.T. LONGOWAL, *Manohar Singh*, Principal, Guru Nanak Dev Engineering College, *Surendra Pal Singh*, Associate Professor, Indian Institute of Technology, **INDIA**

Preparation and Performance of Flyash filters, *Mitalee Gupta*, Student, Delhi Technological University, *Nidhi Bajaj*, Student, Delhi Technological University, *Swati Sharma*, Student, Delhi Technological University, *Swayamsiddha Das*, Student, *Raju Sarkar*, Lecturer, **India**

Utilization of Coal/Biomass Fly Ash and Glacial Till Soil as a Flow-Through Reactive Barrier for the Treatment of Acid Mine Drainage, *Kevin Penney*, Graduate Student (Master of Science in Engineering), Lakehead University, *Eltayeb Mohamedelhassan*, Professor, Department of Civil Engineering, Lakehead University, *Lionel J.J. Catalan*, Professor, Department of Chemical Engineering, Lakehead University, **Canada**

Extraction of Silica and Alumina from coal fly ash using Box-Behnken Design for the synthesis of zeolites Na-A, *Rose Aini Kamarudin*, Principal Lecturer, Universiti Tenaga Nasional, *Abdul Salam Matlob*, Ph D student, Universiti Tenaga Nasional, *Zaemah Jubri*, Senior Lecturer, Universiti Tenaga Nasional, *Zainab Ramli*, Universiti Teknologi Malaysia, **Malaysia**

Improving the Engineering Properties of Desert Sands Using Incinerator Ash, *Yahia E-A. Mohamedzein*, Associate Professor, Sultan Qaboos University, *Mohammed Y. Al-Aghbari*, Assistant Professor, Sultan Qaboos University, 96824141331, **Sultanate of Oman**

Effective Use of Waste Generated in Thermal Power Plant as a Value Added Product in Cement Manufacturing and its Environmental Impact, *Dr. Bibekananda Mohapatra*, General Manager (Quality Control), Vikram Cement (A unit of Aditya Birla Group), *Raghvendra Narayan*, Sr. Officer (Env.), Vikram Cement (A unit of Aditya Birla Group), *Shashi Mohan Joshi*, Jt. Executive President (Technical), Vikram Cement (A unit of Aditya Birla Group), Radhamohan Gupta, Dr. S.P. Gautam, R.K. Jain, **India**

Potential Bioavailability of Heavy Metals from Bottom Ash Derived from Thermal Treatment of Solid Wastes as Practiced in the Developing Countries, A Case Study of Nigeria, *Dr. I.M. Adekunle*, Assistant Professor, University, **Nigeria**

Potential of Indian Fly ashes as Soil Ameliorant:State-of-the-Art, *Ram LC*, Deputy Director & Head, Central Institute of Mining and Fuel Research (Digwadih Campus), *Smriti Singh*, Senior Research Fellow, Central Institute of Mining and Fuel Research (Digwadih Campus), *Masto RE*, Scientist C, Central Institute of Mining and Fuel Research (Digwadih Campus), SK Jha, Tripathi RC, AK Sinha, NK Srivastava, VA Selvi, **India**

Impact of fly ash stabilized sewage sludge on soil quality, *Masto RE*, Scientist C, Central Institute of Mining and Fuel Research (Digwadih Campus), *Ram LC*, Deputy Director & Head, Central Institute of Mining and Fuel Research (Digwadih Campus), *Sunar KK*, Student, Central Institute of Mining and Fuel Research (Digwadih Campus), Sengupta T, Selvi VA, **India**

Fly Ash Potential and Its Consumption in Important Product Formation, *Dr P Dubey*, Asso. Prof., T M Bhagalpur University, **India**

SESSION 6B

Composting and Biological Treatment 1

Evaluation of Inoculation of phosphate solubilizing Microorganisms in During Composting of Sugarcane Bagasse on phosphate availability, *ladan razikordmahalleh*, senior expert, department of environment, **Iran**

Siloxanes in Mechanical-Biological Treatment plants, *Stephan Mattersteig*, scientific assistant, Dresden University of Technology, Institute of waste management and contaminated site treatment, *Lilly Brunn*, scientific assistant, Dresden University of Technology, Institute of waste management and contaminated site treatment, *Prof. Dr.-Ing. habil. Dr. h.c. Bernd Bilitewski*, head of institute, Dresden University of Technology, Institute of waste management and contaminated site treatment, Dr. rer. nat. Matthias Friese; position: supervisor of the measuring institute; company: Mattersteig&Co. GmbH; **Germany**

Increase in Energy Efficiency of Composting by Bio Leaching, *Dipl.-Ing. Nils Bauerschlag*, scientific staff, Department of Processing and Recycling I.A.R. at RWTH Aachen University, *Prof. Th. Pretz*, Professor, Department of Processing and Recycling I.A.R. at RWTH Aachen University, **Germany**

Effect of Composting on Phytoextraction of Heavy Metals from Tannery Solid Waste Amended Soil, *Muhammad Shafiq*, PhD Scholar, Dept. of Botany, University of the Punjab, *Aisha Nazir*, PhD Scholar, Dept. of Botany, University of the Punjab, *Firdaus-e-Bareen*, Professor, Dept. of Botany, University of the Punjab, **Pakistan**

Effects of Aeration Pipe Orientation and Perforation Size on Passive Aeration Composting of Chicken Litter, *Gbolabo Abidemi Ogunwande*, Lecturer, Obafemi Awolowo University, *James Adewale Osunade*, Lecturer, Obafemi Awolowo University, *Lawrence Abiodun Ogunjimi*, Lecturer, Obafemi Awolowo University, **Nigeria**

Temperature Effects on Co-composting of Municipal Solid Waste and Sewage Sludge, *Dr. M.F. Hamoda*, Professor, Kuwait University, *A. Saleh*, Director, Environmental Affairs, Dubai Municipality, **KUWAIT**

Role of Paecilomyces in Waste Management, *Kalpna Arora*, Research Scholar, CRDT, IIT Delhi, *Satyawati Sharma*, Associate Professor, Centre for Rural Development & Technology, **India**

Compost as a Growth Medium of Methanotrophic Bacteria, *U. Mancebo*, PhD student, University of Calgary, *J. Patrick A. Hettiaratchi*, Professor, University of Calgary, *O Hurtado*, PhD student, University of Calgary, **Canada**

SESSION 6C

Policy and Management

Extended Producer Responsibility: What is the Role for Reuse?, *Sarah M. Surak*, Ph.D. Student, Virginia Tech, **USA**

Problems of Solid Waste Management, *Chukwu Onu*, Professor, Southern University, **USA**

Managing Solid Waste In A Third World State: The Nigeria Example, *Senator Grace Folashade Bent*, Chairman Senate, Committee on Environment and Ecology, **NIGERIA**

Assessing Governace Arrangements for Solid Waste Management Amongst State Institutions in East Africa: Case Studies of Kisumu, Jinja and Mwanza, *Christine Majale*, Tutorial Fellow, Kenyatta University, *Peter Oosterveer*, Doctor, Wageningen University, *Caleb Mireri*, Senior Lecturer, Kenyatta University, **KENYA**

Urban Attitudes towards Land Application of Municipal and Industrial Biosolids,

Mebrate Taffese Tanto, PhD Research Student, University College Dublin, *William L. Magette*, Senior Lecturer in Environmental Engineering, PhD, University College Dublin, **Ireland**

Urban Poor Access to NGO/CBO Services in Public-Private Arrangements in Solid Waste Management, *Judith T. Tukahirwa*, PhD Student, Wageningen University, *Arthur Petrus Johannes Mol*, Chair and Professor, Environmental Policy, Wageningen University, Department of Social Sciences, *Peter J.M. Oosterveer*, Senior Lecturer, Wageningen University, Department of Social Sciences, **Uganda**

Delivering Resource Efficiency in the Food Packaging Sector: Evaluating the Costs and Benefits of the use of an Environmental Management System in Managing Energy and Resources, *Rebecca Jones*, Researcher, University of Northampton, *Paul Phillips*, Professor of Environmental and Waste Management, University of Northampton, *Kathy Holley*, Researcher, University of Northampton, **UK**

Future of Project Based Mechanisms in the Waste Management Sector with a special view on the prospective American Offset Market, *Christian Pacher*, *Felix Nickel*, *Roland Geres*, Consultant, FutureCamp Climate GmbH, *Felix Nickel*, Consultant, FutureCamp Climate GmbH, **Germany**

Municipal Solid Waste Management: A Comparison between the U.S. and Other Countries, *Shoou-Yuh Chang*, Samuel Massie Chair Professor, NC A&T State University, *Shu-Liang Liaw*, Professor, National Central University, *Wanchi Huang*, PH.D. Candidate, National Central University, **USA**

12:30 p.m. – 1:30 p.m.

Poster Session 2

POSTER SESSION 2

Proposal of an On-site Remediation Method for BTX and Organic Pollutants of Illegal Dumping Sites, *Kazuei Ishii*, Assistant Prof., Graduate School of Engineering, Hokkaido University, *Toru Furuichi*, Professor, Graduate School of Engineering, Hokkaido University, *Noboru Tanikawa*, Associate Prof., Graduate School of Engineering, Hokkaido University, Fumiya Tsubo, **Japan**

Using the HELP Model for More Than Estimating Leachate Generation, *Eric S. Steinhäuser*, Senior Project Director, Sanborn, Head & Associates, Inc., *Brian J. Beaudoin*, Project Manager, Sanborn, Head & Associates, Inc., *Kelly M. Anderson*, Senior Project Engineer, Sanborn, Head & Associates, Inc., Paula J. Mouser, **USA**

Characteristics of Siloxanes in Landfill and Anaerobic Digester Biogases in Korea., *Che Yun Eom*, Researcher, Waste laboratory/Anyang University, *Nam hoon Lee*, Professor,

Chaeyoung Lee, Professor, *Sun-ho Song*, *Saerom Jung*, *Kwang bum Hur*, **Republic of Korea**

The Nutrient Content of Solid Fraction Recovered from Mechanical Separation of Liquid Manure in Swine Industry, *Dr. Michael A. Aloria*, Dean, College of Engineering, AMA International University-Bahrain, **Kingdom of Bahrain**

Alternative Approaches To Municipal Solid Waste [Msw] Management, Microbial Fuel Cell [Mfc] Technology And Clean Development Mechanism [Cdm]: A Case Study Of National Capital Region, India., *Vagish Sharma*, Student, Amity University, *Dr. Keshav C Das*, Regional Director-Business Operation, Clean Trade Group, **India**

Assessing the Composition of Municipal Solid Waste in the Czech Republic, *Dr. Libuše Benešová*, Assistant Professor, Charles University - Prague, *Dr. Anita Závodská*, Assistant Professor, Barry University, *Marketa Dolezalova*, M.Sc., Ph.D. Candidate, Charles University - Prague, *Petra Hnatukova*, Ph.D., *Bohumil Cernik*, M.Sc., *Kotoulova Zdenka*, M.Sc., **Czech Republic/USA**

Environmental Economic and Technological Residues Management Demands: An optimization Tool., *Marisa Soares Borges*, Student doctoral, UFSC, *Humberto Gracher Riella*, Professor, UFSC, *Paulo Roberto Janissek*, Professor, Universidade Positivo, **Brazil**

Characterization of porcelain like waste and its incorporation to cement paste, *Valeria C. Almeida*, Associate Professor, Federal University of Rio de Janeiro, *Ana Catarina Jorge Evangelista*, Professor, Federal University of Rio de Janeiro, *Gabriele de Azevedo Cunha*, Student, Federal University of Rio de Janeiro, *Juliana Costa da Silva*, **Brazil**

Practices, Perceptions, and Exposure of Citizens Regarding Hazardous Household Wastes, *Melanie Szulczewski*, Assistant professor, University of Mary Washington, *Caitlin Paris*, Undergraduate, University of Mary Washington, *Tevin Chaney*, undergraduate, University of Mary Washington, 540-654-1081, **USA**

Time and Motion Analysis of Hauled Container System of Municipal Solid Waste Collection in Ilorin, Kwara State, Nigeria, *Adeniyi S. Aremu*, Ph.D Candidate, Department of Civil Engineering, *James R. Mihelcic*, Professor, Civil Engineering and Environmental Engineering Department, *B.F. Sule*, Professor, Department of Civil Engineering, **Nigeria**

Ni, V, Mo and Al extraction from deoiled spent petroleum catalyst using both iron and sulfur oxidizing bacteria culture, *Dong-Jin Kim*, Principal researcher, Korea Institute of Geoscience and Mineral Resources (KIGAM), *Debabrata Pradhan*, PhD student, Korea Institute of Geoscience and Mineral Resources (KIGAM), *Jong-Gwan Ahn*, Principal researcher, Korea Institute of Geoscience and Mineral Resources (KIGAM), *Seoung-Won Lee*, **South Korea**

Biomass to Bio-Oil: An Evaluation of Raw Bio-oil Production and Catalytic Upgrading by HSZM-5, *Patricia Sefton*, Student, West Virginia University, *Dr. Mark Williams*, Researcher, NETL, *Dr. Richard Turton*, Professor, West Virginia University, Joseph Shaeiwitz, **United States**

Engineering Around Red Tape and the Great Green Push: A Case Study at West Virginia University, *Patricia Sefton*, Student, Mon County Solid Waste Authority, **United States**

Valorization Of Waste Rubber: Influence Of The Volume Proportion Of The Rubber Aggregates On The Delayed Deformations Under Constant Load Of Eco-Concrete Rubber Formulated With Rubber Waste, *Said Abdelmoumen*, Ph.D., Engineering Materials and Processes (EMAP) - Laboratory for Innovation Technologies, University of Picardie Jules Verne, *Emmanuel Bellenger*, Dr, Engineering Materials and Processes (EMAP) - Laboratory for Innovation Technologies, University of Picardie Jules Verne, *Michèle Quéneudec-t'Kint*, Professor, Engineering Materials and Processes (EMAP) - Laboratory for Innovation Technologies, University of Picardie Jules Verne, **France**

Concomitant Production of Thermostable Amylase and Protease from Bacillus sp. By Solid State Fermentation, *Dr. Rajni Singh*, Assistant Director, Amity University Uttar Pradesh, *Rajshree Saxena*, Research Scholar, Amity University Uttar Pradesh, **India**

Protease Production----- from Bacillus sp. By Solid State Fermentation, *Dr. Rajni Singh*, Assistant Director, Amity University Uttar Pradesh, *Rajshree Saxena*, Research Scholar, Amity University Uttar Pradesh, **India**

The Conversion Of Waste In To Useful Chemicals And Energy: Anaerobic Fermentation Of Waste Cabohydrate, *HUSNUL AZAN TAJARUDIN*, PhD student, Universiti Sains Malaysia, *R.W.Lovitt*, Senior Letcurer, Swansea University, **Malaysia**

1:30 p.m. – 2:30 p.m.

Luncheon

2:30 p.m. – 4:15 p.m.

Sessions 7

SESSION 7A

Composting and Biological Treatment 2

Investigation of Wastewater Treatment Sludge, Yard Trimming Waste, and Food Waste Combination in Vermicompost Quality, a Case Study of Shiraz, Iran, *Nasser Talebbeydokhti*, Professor, Shiraz University, *Mojtaba Kharazmi*, Graduate Student, Shiraz University, **Iran**

Evaluating Composting Process Scheme for Port Harcourt, Nigeria, *A A Ujile*, Lecturer, Rivers State University of Science & Technology, Nigeria, *E. Ehirim*, Lecturer, Riv State

Un SC&Tech, , **Nigeria**

Evaluation of Domestic Solid Waste Composting in Bangladesh, *M. Habibur Rahman*, Pro-Vice Chancellor, Bangladesh University of Engineering & Technology (BUET), Dhaka, *Abdullah Al-Muyeed*, Assistant Professor, AUST, **Bangladesh**

Protease productyion----- from Bacillus sp. By Solid State Fermentation, *Dr. Rajni Singh*, Assistant Director, Amity University Uttar Pradesh, *Rajshree Saxena*, Research Scholar, Amity University Uttar Pradesh, **India**

Optimization of Operating Parameters in Composting of Organic Wastes, *Bassim Abbassi*, Al-Balqa' Applied University, *Samih Abu Baker*, *Ehab Al-Manaseer*, and *Mustafa Jaar*, **Jordan**

Vermicomposting of Municipal Market Waste- An Experimental Study, *P.Lakshmi Narayana Prasad*, Assistant Engineer, Rural water supply & Sanitation, *Dr.J.Karthikeyan*, Professor& Head, Department of Civil Engineering, S.V.University, Tirupati., **India**

Ondo State Waste Composting: A Panacea To Food Security And Wealth Creation In Developing Nations, *AKINBINU VICTOR ABIOYE*, LECTURER II, FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE NIGERIA, *ADEYANJU YETUNDE*, Executive Chairperson, Ondo State Waste Management Board, **NIGERIA**

Methane production of solid waste using anaerobic digestion process, *Dr. rafik M. Hesnawi*, National Research and Scientific Board, *Ruqua Aboljam*, The Academy of Higher Studies, **Libya**

Potential for Solid Waste Management in Nigeria by Conversion to Organic Fertilizer, *Dr.I.M.Adekunle*, Assistant Professor, University, **Nigeria**

Determination Of Optimum Acidification Conditions And Production Of Renewable Energy Through Anaerobic Digestion For Organic Fraction Of Municipal Solid Waste, *Goksel N. Demirer*, Prof.Dr., METU Environmental Engineering, *Eylem*, Dogan, METU Environmental Engineering, **Turkey**

Enhancing anaerobic digestion processes for improved biogas production, *Dr Joseph C Akunna*, Senior Lecturer, Urban Water Technology Centre, University of Abertay Dundee, **United Kingdom**

SESSION 7B

Wood, Construction and Demolition Wastes

Sustainable Development and Recycling Systems in the Waste Management of Building

Rubbles in Kuwait, *Eng. Shaikha Abdullatef AlSanad*, Research Associate, Kuwait Institute for Scientific Research, *Dr. Moetaz El -Hawary*, Kuwait Institute for Scientific Research, **Kuwait**

A Home Builder's Guide to Waste Management at the Construction Site, *Joseph Laquatra*, Professor, Cornell University, *Mark Pierce*, Extension Associate, Cornell University, **USA**

Prospects and limitations for the collection and treatment of asbestos containing waste in Flanders, *Veronique Van Hoof*, Researcher, Flemish Institute for Technological Research (VITO), *Karl Vrancken*, Program manager, Flemish Institute for Technological Research (VITO), *Luc Beeckmans*, Head of unit Inorganic waste, Public waste agency for the Flemish Region, **Belgium**

Structural Concretes of 25 to 50 Mpa Compressive Strength Using Aggregates Recycled in Kuwait, *Dr. M.N Haque*, Professor, College of Engineering And Petroleum, *Dr. Anwar F. Al- Yaqout*, Assistant Professor, College of Engineering And Petroleum, *Sreekala. V*, Research Assistant, College of Engineering And Petroleum, **Kuwait**

Data Mining the Estimation and Forecasting of Concrete Debris Amount from Building Demolition in Taiwan Taoyuan, *Jyh-Dong Lin*, Professor, Dept. of Civil Engineering, National Central University, *Li-Hsu Yeh*, Ph.D. Candidate, Dept. of Civil Engineering, National Central University, *Hao-Hsien Chen*, Ph.D., Dept. of Civil Engineering, Yu-Kuan Cheng, Ph.D. Candidate, Dept. of Civil Engineering, National Central University, **Taiwan, R.O.C**

Wood Shipping Product Recycling and Waste Trends in the United States, *Robert Bush*, Professor, Department of Wood Science and Forest Products, Virginia Tech, *Philip A. Araman*, Team Leader and Scientist, Southern Research Station, USDA–Forest Service, *E. Brad Hager*, former Graduate Research Assistant, Virginia Tech. **USA**

Reuse of the discarded railroad ballast in civil construction, *Rudney C. Queiroz*, Professor of Civil Engineering, Sao Paulo State University, *Mario M. Isa*, Professor of Civil Engineering, Sao Paulo State University, *Adilson Renofio*, Professor of Civil Engineering, Sao Paulo State University, *Jorge akutsu*; *Ariane de Cassia G. da Silva*, **Brazil**

SESSION 7C

Integrated Management

Environmental Economic and Technological Residues Management Demands: An optimization Tool., *Marisa Soares Borges*, Student doctoral, UFSC, *Humberto Gracher Riella*, Professor, UFSC, *Paulo Roberto Janissek*, Professor, Universidade Positivo, **Brazil**

Integrated Solid Waste Management in the Arab Region, *Farag A. El-Mabrouk*, Univ. Staff member, Garyounis University, **Libya**

Solid Wastes Management for Clean Water Provision: The Prospects of Water-ways Restoration, *Felix Chijioke Ekejiuba*, Chief Engr, PAL Breweries Nigeria Limited, *Nwajagu Nwora Uchenna*, Manager, Cestel Nigeria Limited, *Onyeama Ifeanyi Valentine*, Manager, Izyprecs Nigeria Ltd, **Nigeria**

A Tale of Two Countries - Czech Republic and the United States: A Comparison of Their Municipal Solid Waste Management Systems, *Dr. Libuše Benešová*, Assistant Professor, Charles University - Prague, *Dr. Anita Závodská*, Assistant Professor, Barry University, **Czech Republic/USA**

Alternative Approaches To Municipal Solid Waste [Msw] Management, Microbial Fuel Cell [Mfc] Technology And Clean Development Mechanism [Cdm]: A Case Study Of National Capital Region, India., *Vagish Sharma*, Student, Amity University, *Dr. Keshav C Das*, Regional Director-Business Operation, Clean Trade Group, **India**

Regional Approach to Service Provision: Solid Waste Management amongst Small Urban Centres in the Lake Victoria Basin, *Christine Majale*, Tutorial Fellow, Kenyatta University, *Gert Spaargaren*, Professor, Wageningen University, *Caleb Mireri*, Senior Lecturer, Kenyatta University, **KENYA**

The Application of Zero Waste in the Developing Countries- The Case of Egypt, *Yousryia Nassif Loza*, Chair of the Board of Directors, Enhancement of Integrated Services and Waste Recycling Co. & Founder of The Association for the Protection of Environment, *Ayman M. Ghanem*, Solid Waste Management Advisor for the Enhancement of Integrated Services and Waste Recycling Co. & The Association for the Protection of the Environment, *Sohair M. Milik*, Manager of The Association for the Protection of the Environment, The Association for the Protection of the Environment, **Egypt**

Waste management: An Employment And poverty Alleviation Tool, *M. Ben OUMAROU*, PhD Student, University of Maiduguri, *M. DAUDA*, Head of Mechanical Engineering Department, University of Maiduguri, **NIGERIA**

Digital City Initiatives for Small Municipalities and Rural Areas and Their Role in Solid Waste Management, *Susan J. Bergeron, M.A.*, Monongalia County Solid Waste Authority, *Barbara L. MacLennan, M.A., M.S.J.*, Monongalia County Solid Waste Authority, **USA**

SESSION 7D
Innovative Research

Uptake Efficiencies of Toxic Pollutants by Plants: A Phytoremediation of Soil, *Dr. C. Balomajumder*, Associate Professor, Chemical Engineering Department, I.I.T Roorkee, India, *Mrs. Aparajita Majumder*, Teacher, St. Ann's Senior Secondary School, *Ni*, **India**

Design of a Waste Management Facility, *Chad Oubre*, Student, Southern University, *Justin Foster*, student, Southern University, **USA**

Production of Biodiesel Using the Microwave Technique, *S.A. El Sherbiny*, Lecturer, Department of Chemical Engineering - Faculty of Engineering - Cairo University, *A.A.Refaat*, Teaching Assistant & Researcher, Department of Chemical Engineering - Faculty of Engineering - Cairo University & Center for Environmental Research and Studies (CERS) - Cairo University, *S.T.El Sheltawy*, Professor, Department of Chemical Engineering - Faculty of Engineering - Cairo University, **Egypt**

Hybrid Surface Aerator with a Bubble Generator, *Prof.Achanta Ramakrishna Rao*, Professor, Indian Institute of Science, *Ajey Kumar Patel*, Post Doctoral Fellow, Indian Institute of Science, **India**

Use of Low Doses of Collagen Nanofibrils to Clarify Turbid Water, *David Santangelo*, Student, Widener U, *Gennaro Maffia*, Professor, Widener U, **USA**

Phytoremediation Technique to Restore Sewage and Liquid Industrial Waste Ponds to Develop National Forest in Kuwait, *Prof. Mohammad Al-Sarawi*, *Raed Al-Qassar*, Student, Gulf University, *Saji Baby*, Senior Environmental Scientist, Wataniya Environmental Services Co., **Kuwait**

Chemical Composition And Coefficient of Preference by Small Ruminants of Biodegraded Corn Cob and Corn Straw, *Funmilayo O. Familade*, PhD student, University, *O. J. Babayemi*, Senior Lecturer, Department of Animal Science, U.I., **Nigeria**

Solid Waste Technology Research Works in Lagos State Nigeria: "Smelting of Nylon and low-density Plastics (Ldps) in a Fluidized Bed System", *Engr. AbdulWahab Ogunbiyi*, Chief Mechanical Engineer (Planning & Research), Lagos State Ministry of Works and Infrastructure, *Engr. Johnson Olumuyiwa Agunsoye*, Lecturer I, Metallurgy & Materials Engineering Department, University of Lagos, *Engr. Shittu Olumide Akeem*, Principal Mechanical Engineer, Lagos State Ministry of Works and Infrastructure, **Nigeria**

Effect of Source and Chemical Composition on in vitro fermentation of Water hyacinth, *Dr.(MRS) Mako, Adejoke Adeneye*, Asst. lecturer, Tai Solarin University of Education, *Dr. O. J Babayemi*, Snr lecturer, University of Ibadan, Ibadan Oyo State, **Nigeria**

Determine Some Water Quality Characteristics of Purity Water by Using Laser Technique, *lilyan y matti*, Environmental and pollution control research center, Mosul

University, *Dina Y. Matti*, College of Laser Engineering, **Iraq**

Enerkem's Waste-to-Biofuels Plants: Using a Proprietary Thermochemical Technology Platform, *Dino Mili*, V.P., Business Development, Enerkem Inc, **Canada**

4:15 p.m. – 4:30 p.m.

Break

4:30 p.m. – 6:20 p.m.

Sessions 8

SESSION 8A

Chemical and Biochemical Treatment

Cyanide in Industrial Wastewaters and its Removal: A Review on Biotreatment, *Neha Gupta*, Research scholar, IIT, Roorkee, *Dr C.B majumder*, Associate professor, IIT, ROORKEE, **INDIA**

Decolorization And Decomposition Of Harmful Azo-Dyes Containing Textile Wastewater Using Subcritical Water Technology, *Somayeh Daneshvar Hosseini*, Student, Osaka Prefecture University, *Feridoun Salak Asghari*, Assistant Professor, Osaka Prefecture University, *Hiroyuki Yoshida*, Professor, Osaka Prefecture University, **Japan**

Energy from Waste - An alternative Technology to Incineration, anaerobic Digestion and Pyrolysis - with 80% overall Efficiency, *Frank Riedel*, CEO, Inter Engineering, **Germany**

The Hydrolytic and Oxidative Pathways for Biodegradation of Cyanides, *Mrs. Aparajita Majumder*, Teacher, St. Ann's Senior Secondary School, *Dr. C. Balomajumder*, Associate Professor, Department of Chemical Engineering, IIT Roorkee, *Mrs. Neha Gupta*, Research Scholar, Department of Chemical Engineering, IIT Roorkee, **India**

Short Term Effects Of Cassava Wastewater On Some Chemical Properties Of Loamy Sand Soil., *Jimmy Akinfemi Osunbitan*, Senior Lecturer, Obafemi Awolowo University, **Nigeria**

SESSION 8B

Medical Wastes

Incineration of Biomedical Wastes: Simulated Studies, *Prashant Kumar*, Indian Oil Corporation, *Kasturi Gadgil*, IIT Delhi, **India**

Hospital Wastes – A Serious Threat To Environment And Health In Pakistan, *Mumtaz*

Hussain, Chairman, Society for Conservation of Environment & Sustainable Development, *Mumtaz Hussain*, Chairman, Society for Conservation of Environment and Sustainable Development, Dr Aizad Mumtaz & Saniea Mumtaz, **Pakistan**

Needs Assessment Study on Solid Waste Management in Hospitals: Show Case of Muhima Hospital in Kigali, *GATETE Pascal*, Head of department of Hygiene and sanitation, Muhima Hospital/Ministry of Health, **Rwanda**

A Composite Indicator for Management of Medical Solid Waste Applied to a Health-Care Facility (HCF): a case study, *Luisa Fernanda Ribeiro Reis*, Full Professor, Engineering School of São Carlos -University of São Paulo, *Katia Sakihama Ventura*, Associate Professor, Integrated School of Araraquara - LOGATTI, **Brazil**

Healthcare waste generation and management, *Zhi Han Liu*, Researcher/Nurse, Healthcare, **China**

SESSION 8C

Mining and Mineral Wastes

Prediction of Asbestos Exposure Resulting From Asbestos Aerosolization Determined Using the Releasable Asbestos Field Sampler (RAFS), *William Barrett*, Chemical Engineer, US Environmental Protection Agency, *G. Gordon Brown*, RTI International, *Jonathan Thornburg*, Senior Research Engineer, RTI International, *John Kominsky*, *James Konz*, **USA**

Measurement of Aerosolization of Asbestos from Soil Using the Releasable Asbestos Field Sampler (RAFS), *James Konz*, Environmental Health Specialist, US Environmental Protection Agency, *John Kominsky*, Vice President, Environmental Quality Management, *Jonathan Thornburg*, Senior Research Engineer, RTI International, *Andrew Dart*, *William Barrett*, **USA**

Neutralization Of Red Mud By Using H₂S At Ambient Temperature And Pressure, *R K Patel*, Head, Dept of Chemistry, National Institute of Technology, *R C Sahu*, *BC Ray*, **India**

6:30 p.m. – 7:30 p.m.
Closing Reception

WEDNESDAY MARCH 17

8:00 a.m. – 10:00 a.m.
Conference check-in and registration

8:00 a.m. – 9:00 a.m.

Coffee

9:00a.m. – 2:00 p.m.

Technical Field Trips (choose 1)

FIELD TRIP 1

to be posted at a later date

FIELD TRIP 2

to be posted at a later date