

# **The Twenty-Second International Conference on Solid Waste Technology and Management**

**Philadelphia, PA, USA**

**March 18-21, 2007**

## **AGENDA**

(updated January 8, 2007)

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Founder:  
Iraj Zandi  
University of Pennsylvania

Chair:  
Ronald L. Mersky  
Widener University

Conference Secretary:  
Kathleen Donaghy  
Widener University

**Scientific Committee:**

- Haluk Akgun, Department of Geological Engineering, Middle East Technical University, Turkey
- Giuseppe Bonifazi, Università di Roma "La Sapienza", Italy
- Shoou-Yuh Chang, North Carolina A&T State University, USA
- Thomas Coskeran, Liverpool John Moores University, United Kingdom
- Ruby Mejía de Gutiérrez, Universidad del Valle - Escuela de Ingeniería de Materiales, Colombia
- Mervat El-Hoz, University of Balamand, Lebanon
- Kasturi Gadgil, I.I.T. Delhi, India
- Noah Galil, Technion-Israel Institute of Technology, Israel
- William L. Magette, University College Dublin, Ireland
- Sara Ojeda-Benitez, Autonomous University of Baja California Engineering Institute, Mexico
- Chukwu Onu, Southern University and A & M College, USA
- Paul S. Phillips, University of Northampton, United Kingdom
- Eva Pongrácz, University of Oulu, Finland
- Jason Scott, University of New South Wales, Australia
- Bruce G. Wilson, University of New Brunswick, Canada
- Anita Závodská, Barry University, USA

# CONFERENCE SUMMARY

## SUNDAY, MARCH 18, 2007

Pre-Conference Tour of Philadelphia  
Continuing Education Courses  
Opening Reception

## MONDAY, MARCH 19, 2007

Opening Plenary

- 1A Waste Composition
- 1B Composting Studies
- 1C Waste Policy 1
- 1D Landfill and Containment Innovation and Planning
  
- 2A Decision Making Tools
- 2B Composting Technology 1
- 2C Landfill Studies
- 2D Mining Wastes
  
- 3A Waste Policy and Economics
- 3B Chemical and Biochemical Treating
- 3C Recycling Development
- 3D Utilization of Waste in Construction
- 3E Transfer Stations
  
- 4A Utilization of Construction and Demolition Wastes
- 4B Energy Recovery
- 4C Public and Private Involvement
- 4D Contaminated Sites
- 4E Waste Treatment and Utilization

Poster Session 1

## TUESDAY, MARCH 20, 2007

- 5A Sludge
- 5B Landfill Analyses
- 5C Recycling of Specific Wastes
- 5D Ash
  
- 6A Geotechnical Studies
- 6B Environmental Analyses
- 6C Recycling Technology
- 6D Industrial and Mining Waste Composition

Poster Session 2

- 7A Waste Collection
- 7B Hazardous Wastes
- 7C Composting and Organics
- 7D Agricultural Wastes
- 7E Recycled Tires
- 7F Waste Treatment and Utilization
  
- 8A Utilization of Industrial Wastes in Construction
- 8B Waste Management in Developing Regions
- 8C Health Care Wastes
- 8D Waste Generation
- 8E Case Studies

## WEDNESDAY, MARCH 21, 2007

Continuing Education Courses

Technical Field Trips

Closing Meeting

# DETAILED AGENDA

## SUNDAY, MARCH 18

11:00 a.m. - 6:00 p.m.

Conference check-in and late registration

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

Tour of Philadelphia  
(additional fee)

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

Continuing Education Courses  
(additional fee)

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

Welcome Reception

## MONDAY, MARCH 19

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

Conference check-in and late registration

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

Coffee

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

Opening Plenary

9:30 a.m. - 11:00 a.m.

**Sessions 1**

### SESSION 1A

#### *Waste Composition*

*Distribution Characteristics Of Heavy Metal In The MSW Incinerating System In The Three Gorges Reservoir Area*, Wang Li-ao, Professor, Cui Zhiqiang, PhD Candidate, Huang Chuan, Associate Professor, Hu Gang, Zhong Shan, Chongqing University, **P.R. China**

*Perspectives And Results Found In The City Of Mogi Das Cruzes, State Of Sao Paulo, Brazil, Through The Archaeological Inquiry In A Closed Landfill Site*, Andre Wagner Oliani Andrade, Professor Dr., Cruzeiro do Sul University – UNICSUL, Vagner Roberto Elis, Professor Dr., São Paulo University – USP, **Brazil**

*Solid Waste Composition And Waste Deposition Sites Analysis In Watershed Creek Of Cagayan De Oro City, Philippines*, Oliva P. Canencia, Director, Research and Development, Romeo M. del Rosario, Researcher, Vicenta V. Ansibat, Research Coordinator, Nenita D. Palmes, Chris Rey M. Lituañas, Irene Pajaron, Mindanao Polytechnic State College, **Philippines**

*Throwing Out Our Clothes: The Relation Between Income And Textile Waste Generation Among New York*

*City Residents*, Samantha MacBride, Deputy Director, Recycling, NYC Department of Sanitation, **USA**

*Type And Amount Of Recyclables In Izmir City Domestic Solid Waste And Their Variation*, Melayib Bilgin, M.Sc., Research Assistant, Gorkem Akinci, Assist. Prof. Dr, Duyusen Guven, M.Sc., Research Assistant, Dokuz Eylul University, Environmental Engineering Dept., **Turkey**

*Waste Compositional Analysis - An Integral Requirement For Changes To Waste Management Practices And Monitoring Those Changes*, Nia Owen, Research Associate, Professor A.J. Griffiths, Professor K. Williams, Cardiff University, **UK**

## SESSION 1B

### *Composting Studies*

*An Assessment Of Composting Solid Waste In Bangladesh*, M. Habibur Rahman, Professor, M. Ehsanul Bari, Undergraduate Student, Bangladesh University of Engineering & Technology (BUET), A. Al-Muyeed, Lecturer, Dhaka University of Engineering & Technology (DUET), **Bangladesh**

*Home Composting - Public Satisfaction, Scheme Development And Its Contribution To Waste Reduction In The UK*, Adam Read, Technical Director, James Kay, Kate Heath, John Peake, Consultants, Hyder Consulting, **UK**

*Hotel Composting Applicability In Vietnam*, Chi Phuong Hoang, Ph.D Candidate, The University of Texas at Austin, **USA**, Philip H. Byer, Professor, Department of Civil Engineering, University of Toronto, Murray Haight, Professor, School of Planning, University of Waterloo, **Canada**

*Managing The Potential Public Health Risks From Bio Aerosol Liberation At Commercial Composting Sites - An Analysis Of The Evidence Bas*, Mr. Peter Sykes, Senior Lecturer, Dr. Ken Jones, Reader, University of Wales, Institute Cardiff, **UK**

## SESSION 1C

### *Waste Policy I*

*Existing And Future Waste Management Opportunities And How They Are Influenced By Decision Making Aspects And Development Control Decisions And Waste Management Structures And Strategies In The East Midlands Of England*, Professor Paul S. Phillips, University of Northampton, **UK**

*Public Acceptability Factors And Indicators Influencing Successful Landfill Siting Outcomes*, Aylene B. Badilla, Ph.D., Laboratory Manager, Chemistry Department, New Jersey City University, **USA**

*Stop the Nonsense Of Segregated Waste Collection*, Frank J. Riedel, CEO, Inter Engineering, **Germany**

*Technological Advances And Innovative Policies For Solid Waste Management In Nigeria*, Engr. Samuel Chidimma Echedom, MD/CEO, Echedom Technical and Trading Co., Ltd, **Nigeria**

*Utilization Of Geographic Information Systems In Developing Environmental Policies*, Ashraf Ghaly, Professor, Union College, **USA**

## SESSION 1D

### *Landfill and Containment Innovation and Planning*

*Beneficial Use of Waste Latex Paint in Landfill Daily Cover*, David L. Hansen, PE, President, Landfill Service Corporation, **USA**

*Influence Of Site Topography And Shape On Capacity Of Municipal Solid Waste Landfill*, Manoj Datta, Professor, Prateek Natani, B. Tech Student, Shivashish Bhattachrjee, Civil Engineering Dept. I.I.T. Delhi, **India**

*Landfill Site Selection Using SMCE And AHP Methods In GIS Environment – A Case Study In Tehran, Iran*, Babak Naimi, Ph.D Student, Islamic Azad Universit -Oloom Tahghighat, Shirin Taheri, M.Sc, SAP Consulting Engineers Co., **Iran**

*Research And Development Of A Model To Establish An Equitable Gate Rate For Landfilling Bulk Loads Of Mattresses*, John G. Carlton, P.E., Senior Project Manager, Camp Dresser & McKee, Kristine M. Yates, Engineer, Hatch Mott MacDonald, James Williams, Landfill Manager, Pollution Control Financing Authority of Warren County, M. Brendan Mullen, P.E., Hatch Mott MacDonald, **USA**

*Sustainable Operation Of Landfills With Passive Systems And Renewable Energy*, Chris Zeiss, Director of Research, Zirkon Research Inc., **Canada**

*Geotechnical Evaluation of a Bentonite/Sand Seal for Waste Containment*, Haluk Akgun, Professor, Middle East Technical University, **Turkey**

11:00 a.m. - 11:20 a.m.

Break

11:20 a.m. – 12:50 p.m.

**Sessions 2**

## SESSION 2A

### *Decision Making Tools*

*Development Of A Data Base Model For The Systematization Of Integrated Municipal Solid Waste Management*, Sonia I. Portalupi Ramos, Assistant Professor, Universidade do Vale do Itajaí, M. Cristina Borba Braga, Associate Professor, Universidade Federal do Paraná, **Brazil**

*A Simulation Model Of Solid Waste Collection Operations Based On Gps Data*, Thuy T.T. Nguyen, Ph.D Candidate, Bruce G. Wilson, Associate Professor, University of New Brunswick, **Canada**

*Analytic Network Process Model For Municipal Solid Waste Disposal Options*, Mohd Nishat Faisal, National Doctoral Fellow, Department of Management Studies, Indian Institute of Technology Delhi, **India**, Sheeba Khan, Graduate Assistant, Department of Civil and Environmental Engineering, Youngstown State University, **USA**

*Development Of Gis Based Decision Support Tool For Optimal Route Analysis For Transportation Of Solid Waste*, M. Anji Reddy, Director and Professor of Environmental Science and Technology, Vuppala Padmaja, Senior Research Fellow, Centre for Environment, Institute of Science and Technology, Jawaharlal Nehru Technological University, **India**

*Integrated Analytical Hierarchy Process – Gis Model For Landfill Siting: A Case Study From India*, Vuppala Padmaja, Senior Research Fellow, S.S. Asadi, Lecturer, Centre for Environment, Institute of Science and Technology, Jawaharlal Nehru Technological University, **India**

*Two-Level Solid Waste Management Under Uncertainty*, Hengliang Li, Ph. D Student, Guo H. Huang, Professor, Environmental Systems Engineering Program, Faculty of Engineering, Yun Zou, University of Regina, **Canada**

## SESSION 2B

### *Composting Technology 1*

*Behavior Of Heavy Metals During Composting Of Municipal Solid Waste*, Gorkem Akinci, Assist. Prof. Dr, Melayib Bilgin, M.Sc., Research Assistant, Duyusen Guven, M.Sc., Research Assistant, Environmental Eng. Dept., Dokuz Eylul University, **Turkey**

*Biological Production Of Hydrogen From Organic Raw And Waste Materials By Fermentation With Pure And Mixed Cultures*, Mareike Meyer, Dipl.-Ing. /Project Engineer, Technical University Hamburg Harburg, Institute of Waste Resource Management, Dorothea Rechtenbach, Dipl.-Ing. /Project Engineer, Rainer Stegmann, Prof. Dr.-Ing, Head of the Institute, Technical University Hamburg Harburg, Institute of Waste Resource Management, **Germany**

*Calculating Airflow Requirements For Forced Aerated Composting Systems*, G.Hewings, Research Associate, K.P. Williams, Professor, A.J.Griffiths, Professor, Cardiff School of Engineering, **UK**

*Comparison Of Anaerobic And Aerobic Composting Of Municipal Solid Waste And Treatment Sludge According To The Product Quality And Operational Costs*, Duyusen Guven, M.Sc., Research Assistant, Gorkem Akinci, Assist. Prof. Dr, Melayib Bilgin, M.Sc., Research Assistant, Environmental Eng. Dept., Dokuz Eylul University, **Turkey**

*Composting Animal Waste With Magnesium: A Novel Method Of Stabilizing Nitrogen And Phosphorus*, Dr. Philip G. Malone, Research Geologist, Dr. W. Allen Roberson, Supervisory Engineer, Dr. Charles A. Weiss, Jr. , Research Geologist, Mr. David B. Ringelberg , Dr. Girish Panicker, U.S. Army Engineer Research and Development Center, **USA**

*Polyhydroxyalkanoates (PHA) Storage Of Palm Oil Mill Effluent (POME) At Different Aerobic Dynamic Feeding Regimes*, Md. Din, Mohd Fadhil, Lecturer, Mohd.Yusof, Badruddin, Lecturer, Ujang, Zaini, Professor, Lecturer, M.C.M.van Loosdrecht, Universiti Teknologi Malaysia (UTM), **Malaysia**

## SESSION 2C

### *Landfill Studies*

*A Vision Of The Brand New Program On Sanitary Landfill In Mexico City And Its Advances*, Carlos Olivo, Master Student, Kristy Peña, Master Student, Dr. Klaus Fischer, Professor, Stuttgart University, **Germany**

*Effect Of MSW Leachate Recirculation Frequency On Contamination Reduction*, R. Ravishankar, Research Scholar, P. Ravichandra, Research Scholar, Gopal Mugeraya, Professor, National Institute of Technology Karnataka, **India**

*Laboratory And Pilot Scale Study Of Municipal Solid Waste From Metepec (México) And Its Leachate Produced By Simulated Rain Load*, Ma.del Consuelo Hernandez-Berriel, Student, Instituto Tecnológico de Toluca, Liliana Márquez-Benavides, Researcher-Lecturer, INIRENA-UMSNH, Iván Rodriguez-Rico,

Researcher-Lecturer, Instituto Tecnológico de Toluca, Dr. Otoniel Buenrostro-Delgado, UMSNH, **Mexico**

*Prediction Of The Hydraulic Conductivity Of Clay Liners For The Efficient Construction And Monitoring Of Clay Liners In Landfills*, Dr. Frank Atuahene, Assistant Professor and Coordinator of Construction Management, Georgia Southern University, **USA**

*Sanitary Disposal Facilities For Dead Poultry*, S.T. El Sheltawy, Director, Center for Environmental Research and Studies, N. Metawey, Assistant Professor, National Research Center, **Egypt**

*Treatability Of Leachate Using UASB Reactor: Case Study For Leachate From Okhla Landfill, New Delhi*, Vijaya Singh, Research Scholar, Dr. Atul Kumar Mittal, Associate Professor, Indian Institute of Technology, Delhi, **India**

## SESSION 2D

### *Mining Wastes*

*Carrier-Microencapsulation For Preventing Pyrite Oxidation*, Jacqueline Satur, Doctoral student, 3rd Yr., Naoki Hiroyoshi, Associate Professor, Masami Tsunekawa, Professor, Dr. Mayumi Ito, Dr. Hideyuki Okamoto, Graduate School of Engineering, Dr. Mayumi Ito, Dr. Hideyuki Okamoto, Hokkaido University, **Japan**

*Quarries - How To Expand Business, Reduce Dead Time, Increase Usefull Life By Means Of Environmental Impact Reduction*, Paulino E. Coelho, Ph.D., Associate Professor, WASTEPEC, **Brazil**

*Remote Sensing As A Tool To Enforce European Regulation On Mining Wastes*, Chevrel Stephane, D., Project Manager, BRGM, **France**, Sommer Stefan, Senior Researcher, DG JRC, European Commission, **Italy**

*Restoring The Derelict Mined Land On The Jos Plateau State Of Nigeria Through Sanitary Landfil*, Francis Ahmadu, Senior Research Officer Federal School of Mines/Institute of Mining & Geology, David Dachomo, Principal Lecturer, College of Education, **Nigeria**

*Treatment Of Chromium Ore Processing Residue Material: Leaching Experiments And Modeling*, Kahraman Ünü, Professor, S. Yalcin, Graduate Student, S Haskok, Engineer, Middle East Technical University, **Turkey**

12:50 p.m. - 2:00 p.m.

**Awards Luncheon**

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

2:00 p.m. – 3:30 p.m.

**Sessions 3**

## SESSION 3A

### *Waste Policy and Economics*

*A Critical Evaluation Of The Landfill Tax Credit Scheme In Driving Sustainable Management In England*, John R Morris, Senior Lecturer, University of Northampton, **UK**

*A Landfill Tax Credit Scheme Funding Success: East Sussex Waste Minimization Programme*, John R Morris, Senior Lecturer, Paul S. Phillips, Professor, University of Northampton, **UK**

*Driving Sustainable Industrial And Commercial Resource Efficiency: A Radical New Approach To The Design And Operation Of A New Generation Of Demonstration Resource Efficiency Clubs In The UK*, Steve Smith, Principal Lecturer, Thomas Coskeran, Senior Lecturer, Liverpool John Moores University, Paul Phillips, Professor, University of Northampton, **UK**

*Economics Of Solid Waste Collection, Hauling, And Disposal: Monopolies Or Free Markets?*, Molly K. Macauley, Senior Fellow, Resources for the Future, **USA**

*Efficiency Of The Solid Waste Minimization Program Of The School Of Civil Engineering, Architecture And Urbanism At The State University Of Campinas*, Eglé Novaes Teixeira, Professor Doctor, Martina Barbosa, Student, State University of Campinas (UNICAMP), **Brazil**

*Lessons From History: A Detailed Analysis Of The Operation Of Three UK Waste Minimisation Clubs And The Implications For Demonstration Resource Efficiency Club*, Thomas Coskeran, Senior Lecturer, Steve Smith, Principal Lecturer, Liverpool John Moores University, Paul Phillips, Professor, University of Northampton, **UK**

*Solving Problem Approach To Solid Waste Emergency Response: A Case Study Of Metropolitan Bandung*, Dr. Agus Rachmat, Head, Arief Perdana, Staff, West Java Environmental Protection Agency, **Indonesia**

*Towards The Development Of Sustainable Landfills*, Jay N. Meegoda, Professor, New Jersey Institute of Technology, **USA**, Patrick Hettiaratchi, Professor, University of Calgary, **Canada**, Hsin-Neng Hsieh, Professor, New Jersey Institute of Technology, A. Borgaonkar, S. El Hagggar, R. I. Stresel, **USA**

## SESSION 3B

### *Chemical and Biochemical Treatment*

*Chemical Precipitation Of Ammonia-N As Struvite (MAP) From Landfill Leachate- Effect of Molar Ratio Upon Recovery*, O. Parthiba Karthikeyan, Research Scholar, Kurian Joseph, Assistant Professor in Environmental Engineering, Centre for Environmental Studies, Anna University, **India**

*Heavy Metal Sequestration By Calcite: A Study Of Competitive Adsorption On Calcite*, Sabyasachi Chatterjee, Environmental Engineer, Earth Tech Inc, **USA**

*The Effect Of Sugar Additives On The Performance Of Cement-Based Stabilization/ Solidification Of Toxic Metal Wastes*, Linghong Zhang, Student (2nd year Master), Lionel J. J. Catalan, Canada Research Chair and Associate Professor, Stephen D. Kinrade, Professor and Chair, Andrew C. Larsen, Lakehead University, **Canada**

*Treatment Of Laboratory COD Analysis Wastewater By Xanthate*, Yi-Kuo Chang, Assistant Professor, Department of Safety Health and Environmental Engineering, Central Taiwan University of Science and Technology, Juu-En Chang, Professor, Department of Environmental Engineering, National Cheng Kung University, Li-Choung Chiang, Associate Professor, Department of Environmental Engineering and Science, Fooyin University, Pai-Huang Shih, Ming-Her Leu, Tsang-Chin Chen, **Taiwan**

## SESSION 3C

### *Recycling Development*

*The Economic Potential Of Waste Recycling And Its Implications On Environmental Education In Nigeria*, Francis Ahmadu, Senior Research Officer Federal School of Mines/Institute of Mining & Geology, **Nigeria**

*Dirty' Materials Recycling Facilities (Mrfs) And Their Role In Assisting A UK Local Authority To Divert Waste Away From Landfill*, Nia Owen, Research Associate, Professor A.J. Griffiths, Professor K. Williams, Cardiff University, **UK**

*Improving Public Participation In Kerbside Recycling - Assessing The Options Being Considered For Widespread Adoption In The UK*, Adam Read, Technical Director, Hyder Consulting, Marie Harder, Director, Ryan Woodard, Research Fellow, WERG - University of Brighton, **UK**

*PA Recycling Markets Center Glass Cullet Concrete Research And Development Program*, Jeffrey J. Cucura, Graduate Student, Recycling Markets Center Research Assistant, Penn State Harrisburg and the PA Recycling Markets Center, Robert J. Bylone, Jr., Recycling Program Manager, PA Recycling Markets Center, **USA**

*WEEE Recovery Infrastructure In The Oulu Region Of Finland: Challenges To Resource Use Optimization*, Jenni Ylä-Mella., Researcher, Kari Poikela, Researcher, Eva Pongrácz, Senior Researcher, Ulla Lehtinen, Paul Phillips, Riitta Keiski, University of Oulu, **Finland**

## SESSION 3D

### *Utilization of Waste in Construction*

*Bagasse Ash Utilization In Building Industry*, Syed Mohd. Ali Jawaid, Assistant Professor, Sheshank Raghatare, Graduate Student, M. M. M. Engineering College, Gorakhpur, Dr. Manoj Garg, Director, Environmental & Technical Research Center, Roorkee **India**

*Effect Of Silica Fume On Development Mechanical Properties And Shrinkage Of Structural Lightweight Concrete Containing Saturated Leca Fine Aggregates*, Morteza Madhkhan, Assistant Professor, Masoud Hosseinpour, Msc Student of Construction Management and Engineering, Ahmadreza Talebian, Bsc Student of Civil Engineering, Department of Civil Engineering, Isfahan University of Technology, Majid Ebad Sichani, Behrooz Esmaelkhanian, Ehsan Fereshte Nezhad, Golnaz alsadat Mirfendereski, Zahra Sadeghi, Pooria Havaie, **Iran**

*Effect Of Silica Fume On Water Absorption Of Structural Lightweight Concrete Containing Saturated Leca Fine Aggregates*, Morteza Madhkhan, Assistant Professor, Masoud Hosseinpour, Msc Student of Construction Management and Engineering, Ahmadreza Talebian, Bsc Student of Civil Engineering, Department of Civil Engineering, Isfahan University of Technology, Majid Ebad Sichani, Behrooz Esmaelkhanian, Ehsan Fereshte Nezhad, Golnaz Alsadat Mirfendereski, Zahra Sadeghi, Pooria Havaie, **Iran**

*Industrial Waste Base Innovative Construction Materials Technologies*, Mohini Saxena, Scientist, Asokan Pappu, Scientist, Regional Research Laboratory (CSIR), **India**

*Properties Of Self Compacting Rubberized Mortars With Different Types Of Cements*, İlker Bekir TOPÇU, Professor (Ph.D.), Cenk Karakurt, Research Assistant, Mehmet CANBAZ, Research Assistant, Eskisehir Osmangazi University, **Turkey**

*TCLP Characteristics and Reuse of Petroleum Contaminated Soil in Hot Asphalt Mix Concrete*, Ahmad

Jamrah, Associate Professor, University of Jordan, **Jordan**, Ahmaed Al-Futaisi, Assistant Professor, Hossam Hassan, Associate Professor, Salem Al-Oraimi, Sultan Qaboos University, **Oman**

SESSION 3E  
*Transfer Stations*

*Breaking the Barrier: Long Island's Rail Served Transfer Station, Long Island, New York*, Eshwar Kosuri, President, Kosuri Engineering & Consulting, PC, Mr. Michael Cholowsky, President, Emjay Environmental & Recycling, LTD, **USA**

*Implications of FAA Advisory Guidelines on Transfer Station Development*, Christina Seibert, Environmental Scientist / Solid, Waste Planner, Walter Willis, Senior Planner, Douglas Allen, Project Engineer, Shaw Environmental, Inc., **USA**

3:30 p.m. - 3:50 p.m.  
**Break**

3:50 p.m. - 5:20 p.m.  
**Sessions 4**

SESSION 4A  
*Utilization of Construction and Demolition Wastes*

*Effect of Replacemet Of Aggaregates By Demolition Waste On Concrete Properties*, Surinder Mohan Gupta, Astt. Professor, Paratibha Aggarwal, Senior Lecturer, Yogesh Aggarwal, Lecturer, N.I.T.Kurukshetra, **India**

*Reuse Of Waste Materials For Manure Stabilization*, Rominder Suri, Associate Professor, Hongxiang Fu, Research Assistant, Uthappa Devaiah Mandepanda, Graduate Student, Deepthi Kalyanam, Mrinalini Madabhushanam, Villanova University, **USA**

*Identification Of Current Situation Of Construction Waste Management In Brazil*, Rafael F. Tozzi, Graduate Student, M. Cristina Borba Braga, Associate Professor, Universidade Federal do Paraná, **Brazil**

*Feasibility Study For Collection, Transportation & Treatment & Disposal Of The Construction & Demolition Waste for the Entire State Of Delhi Based On Public Private Partnership Solutions*, Sachin Shridhar, Proprietor, Sachin Shridhar & Associates, Surinder Pal, Executive Engineer, Municipal Corporation of Delhi, **India**

*Demolition Solid Waste: A Source Of Coarse Aggaregates For Concrete*, Paratibha Aggarwal, Senior Lecturer, N.I.T.Kurukshetra, Rafat Siddique, Professor, T.I.E.T. Patiala, Surinder Mohan Gupta, Astt. Professor, N.I.T.Kurukshetra, **India**

*Characterization of a C&D Waste*, A.Trivedi, Professor, A.K.Shrivastava, Lecturer, Delhi College of Engineering, **India**

## SESSION 4B

### *Energy Recovery*

*Advanced Thermal Treatments For Solid Waste - A Waste Manager's Guide*, Dr. Richard Marsh, Research Associate, Sally Hewlett, Research Engineer, Prof. Tony Griffiths, Prof. Keith Williams, Cardiff University - School of Engineering, **UK**

*Energy From Waste In The United Kingdom - Current And Future Scenarios*, Dr. Richard Marsh, Research Associate, Sally Hewlett, Research Engineer, Prof. Tony Griffiths, Prof. Keith Williams, Cardiff University - School of Engineering, **UK**

*Evaluation Of Availability Of RDF Power Generation With Different Treatment System By LCA*, Motoko Yamanari, Doctoral course student, Sohei Shimada, Associate Professor, The University of Tokyo, **Japan**

*Particle Cluster Formation In The Riser Of Circulating Fluidized Bed Incinerators*, Munish Kumar Chandel, Research Scholar, Babu J. Alappat, Associate Professor, Indian Institute of Technology Delhi, **India**

*Waste Treatment Plant Sludge As An Alternative Source Of Energy*, Belzahet Trevino Arjona, General Director, Erick Santos Rodriguez, Coordinator, Jose Rodriguez Cisneros, Assistant, Instituto del Agua del Estado de Nuevo Leon, **Mexico**

## SESSION 4C

### *Public and Private Development*

*An Endeavour Of Public Private Partnership To Manage The Urban Solid Waste Of Patna City*, Mr. Prabhjot Singh Sodhi, National Coordinator, UNDP/GEF/Small Grants Programme, Mr. Satish Kumar, Project Officer, Dr. Preeti Saxena, Project Officer, Dr. Ram Boojh, Centre for Environment Education, **India**

*Contractual Arrangements for Municipal Waste Incineration Plants In Germany*, Torsten Kleiss, Research Associate, Chair Construction Economics, Prof. Dr. Hans Wilhelm Alfen, Chair Construction Economics, Bauhaus Universitaet Weimar, **Germany**

*Delivering New Waste Infrastructure - A Public Consultation Toolkit From The UK*, Adam Read, Technical Director, Victoria Bond, Kate Heath, Sarahjane Widdowson, Consultants, Hyder Consulting, **UK**

*Door To Door Promotions - Making The Public Take Responsibility For Their Recyclables*, Adam Read, Technical Director, James Kay, Sarahjane Widdowson, Avin Al-Salihi, Consultants, Hyder Consulting, **UK**

*Public Awareness, Attitude and Effective Environmental Waste Management In Nigeria*, Anslem Imobighe, Speaker, Owan East Local Government Council, **Nigeria**

*Solid Waste And The Environmental Perception Of Rural Communities In Mexico*, Buenrostro Otoniel, Professor, Márquez Liliana, Professor, Research Institute for Natural Resources, UMSNH., Ojeda Sara, Professor, Engineering Institute, Jimenez Angélica, **México**

*Leveraging End-Of-Life Waste Fleet Assets To Improve Your Bottom Line*, Daniel S. Parsley, Chairman and CEO, Capital Asset Sale, **USA**

SESSION 4D  
*Contaminated Sites*

*Land Reclamation Of Poor Farmers From Chromium VI Menace*, Mr. Prabhjot Singh Sodhi, National Coordinator, UNDP/GEF/Small Grants Programme, Mr. Satish Kumar, Project Officer, Dr. Preeti Saxena, Project Officer, Centre for Environment Education, Dr. Padma S. Vankar, IIT Kanpur, **India**

*Pixe Analysis Of Heavy Metals In Shellfish Of Uranouchi Bay*, M. Hasnat Kabir , PhD Student, Tadashi Narusawa, Professor, Kochi University of Technology, **Japan**

*A Study To Prepared Mn-Zn Ferrite Powder From Used Dry Batteries And Waste Pickling Liquid*, Cheng Hsiung Lin, Professor, Graduate School of Optomechatronics & Materials, Chung-Win Liu, Instructor, Department of Chemical Engineering, Wu-Feng Institute of Technology, Yen-Pei Fu, Assistant Professor, Department of Materials Science & Engineering, National Dong-Hwa University, **Taiwan**

*Ozmotech*, Marc Middleton, Marketing Manager, Ozmotech, **Australia**

SESSION 4E  
*Waste Treatment and Utilization*

*The Study Of Plasma-Treated Organic Materials As Adsorbents For Heavy Metal Removal*, Min-Her Leu, Associate Professor, Department of Environmental Engineering, Kun Shan University, Yi-Kuo Chang, Assistant Professor, Department of Safety Health and Environmental Engineering, Central Taiwan University of Science and Technology, Fung-Hwa Chi, Associate Professor, Department of Environmental Engineering, Kun Shan University, Min-Sheng Ko, Chi-Choa Chen and Juu-En Chang, **Taiwan**

*The Utilization Of Industrial Food Waste (Sweet Potato Shochu Lees) For Sawdust Cultivation Of Pleurotus Eryngii*, Masahito Yamauchi, Associate Professor, Department of Civil Engineering / Kagoshima National College of Technology, Sumio Masuda, Professor, Department of Civil and Environmental Engineering, Miyazaki University, Masayoshi YAMADA, Ph. D. Candidate, Dept. of Environmental Systems Engineering, Nagaoka University of Technology, Megumi Mihara, Masato Kihara, Hideki Harada, **Japan**

5:30 p.m. – 7:00 p.m.  
**Posters 1 & Reception**  
**(Posters close at 6:30 p.m.)**

POSTER SESSION 1

*The Economic Potential Of Waste Recycling And Its Implications On Environmental Education In Nigeria*, Francis Ahmadu, Senior Research Officer Federal School of Mines/Institute of Mining & Geology, **Nigeria**

*Agronomic Properties And Heavy Metals Content In Soil Reclaimed From Municipal Solid Waste Landfill*, Somkid Prabpai, Ph.D candidate, Ph.D (Public Health) Program, Faculty of Public Health, Lertchai Charemtanyarak, Assoc. Prof. Dr., Department of Epidemiology, Faculty of Public Health, Boonmee Siri, Assoc. Prof. Dr., Department of Agronomy, Faculty of Agriculture, Khon Kaen University, **Thailand**, Prof. Dr. Michael R. Moore, The National Research Center for Environmental Toxicology, University of Queensland, **Australia**

*An Environmental Approach: Conversion Of Waste Aluminium Foil In To Alum*, Sandeep Kumar Saxena, Scientific Assistant, Dr Sanat Kumar, Scientist, Indian Institute of Petroleum, Ajay Singh, Lecturer, Dolphin Institute of Biomedical & Natural Sciences, Deepika Bhatnagar, **India**

*Determination of Optimum Fly Ash Usage Amount In Concretes*, İlker Bekir TOPÇU, Professor (Ph.D.), M. Uğur Toprak, Turhan BİLİR, Research Assistants, Eskisehir Osmangazi University, **Turkey**

*Development of Plastic-Reinforced Panels Impregnated With Granulated Rubber*, Ashraf Ghaly, Professor, Union College, **USA**, Stanislava Kodedova, Student, Department of Civil Engineering, **Czech Republic**

*Dynamic Staff Scheduling for Collection and Management of Municipal Solid Waste of Delhi*, Anubhav Kaul, PG Student, Indian Institute of Management, Ahemdabad, Amitabh Kumar Srivastava, Research Scholar, Arvind K Nema, Assistant Professor, Indian Institute of Technology Delhi, New Delhi, **India**

*Ecopark - A Strategy On Solid Waste Management In Hong Kong*, Raymond K. K. Chan , Engineer, Kevin K.L. So, Engineer, Collin H.W.Chan, Associate, Scott Wilson Limited , **HKSAR**

*Effect Of Using Ground Granulated Blast Furnace Slag On Freeze-Thaw Durability*, İlker Bekir TOPÇU, Professor (Ph.D.), Aytac Unverdi, Going on Ph D Student, Ahmet Raif BOĞA, Research Assistant, Eskisehir Osmangazi University, **Turkey**

*Effects Of Slag's Fineness On High Temperature Durabof Mortars*, İlker Bekir TOPÇU, Prof. Dr., Turhan BİLİR, Ahmet Raif BOĞA, Research Assistants, Eskisehir Osmangazi University, **Turkey**

*Efficiency Of The Solid Waste Minimization Program Of The School Of Civil Engineering, Architecture And Urbanism At The State University Of Campinas* , Eglé Novaes Teixeira, Professor Doctor, Martina Barbosa, Student, State University of Campinas (UNICAMP), **Brazil**

*Enviromental Education And Training In Nigeria:Facing The Challenges Of The Current Practice*, Jerry E.Uhuo, Environmental Supervisor, Senate Committee on Environment and Ecology National Assembly, Abuja., **Nigeria**

*Environmental Impact Of Mobile Phones: Material Content*, Jenni Ylä-Mella, Researcher, Eva Pongrácz, Senior Researcher, Riitta Keiski, Professor, University of Oulu, **Finland**

*Experience Gained With Waste Management Activities In Brazilian Grade Schools*, M. Fehr, Professor, Federal University, Leite, M.C.R., Biologist, Self-Employed, H.N. Santos, Graduate Student, Federal University, **Brazil**

*Manufacture Of High Heat Conductivity Resistant Clay Bricks Containing Perlite*, İlker Bekir TOPÇU, Professor (Ph.D.), Eskişehir Osmangazi University, Burak İŞIKDAĞ, Lecturer (M.Sc.), Anadolu University, **Turkey**

*Modeling Of Heat Transfer For A Solar Heated Anaerobic Digester Placed Inside A Greenhouse*, Thomas Eric Omondi Odhiambo, PhD Student, Prof. Li Xiujin, Chair of Department, Si Cuanhai, Masters Student, Beijing University of Chemical Technology, Department of Environmental Engineering, **China**

*Properties Of Self Compacting Rubberized Mortars With Different Types Of Cements*, İlker Bekir TOPÇU, Professor (Ph.D.), Cenk Karakurt, Mehmet Canbaz, Research Assistants, Eskisehir Osmangazi University, **Turkey**

*Regeneration Of Different Types Of Granular Activated Carbons With Adsorbed Trichloroethylene Using Wet Peroxide Oxidation Under Mild Condition*, Kiyokazu Okawa, Post Doctor, Toshihiro Takeshita, Associate Professor , Katsuyuki Nakano, Professor, Fukuoka University, Institute for Recycling and Environmental Control System, **Japan**

*Solid Waste Sorting And Utilization At Stora Enso Oyj Veitsiluoto Mills In Kemi, Northern Finland*, Mr. Hannu Nurmesniemi, Environmental Manager, Stora Enso Oyj, Veitsiluoto Mills, Mr. Risto Pyökiö, Environmental Manager, City Council of Kemi, Mr. Toivo Kuokkanen, Docent, Eva Pongrácz, Senior Researcher, Riitta Liisa Keiski, University of Oulu, Department of Chemistry, **Finland**

*Study On The Bio-Hydrogen Production From Kitchen Waste With Aged Refuse*, Cao Xianyan, Ph.D, Yuan Yuyu, Master, Zhao Youcai, Professor, School of Environmental Science and Engineering, Tongji University, **China**

*The Environmental Protection Evaluation During The Pretreatment Process Of The Waste Plastics For Injecting Into Blast Furnace*, Prof. Longf Shigang, Dr. Cao Feng, Meng Qingmin, Wang Zhiquan, School of Metallurgy & Resources, Anhui University of Technology, **P.R.China**

*The Experimental Research On The Pneumatic Injecting Of Waste Plastics Into The Blast Furnace*, Dr. Cao Feng, Department of Chemistry, Huzhou University, Long Shigang, Professor, Wang Zhi-quan, MAO Ming, School of Metallurgy & Resources, Anhui University of Technology, **P.R.China**

*The General Utilizations Of Scrap PC Boards*, Y. L. Yeh, Professor, Department of Chemical Engineering, Ming-Hsin University of Science and Technology, Cheng Hsiung Lin, Professor, Graduate School of Optomechatronics & Materials, Chung-Win Liu, Instructor, Department of Chemical Engineering, R.S. Shie, C.F. Lin, Y.J. Chiou, Wu-Feng Institute of Technology, **Taiwan**

*Towards Sustainable Management Of Electronic Wastes: Policy Development And Implementation - A Case Study From The Tertiary Education Sector*, Dr. Georgina Davis, Research Fellow, Mr. Malcolm Wolski, Associate Director of Research Computing Services, Griffith University , **Australia**

*Use Of Slags In Production Of Sulphate Resistant Mortars*, İlker Bekir TOPÇU, Prof. Dr., Ahmet Raif BOĞA, Turhan BİLİR, Research Assistants, Eskisehir Osmangazi University, **Turkey**

*Wireless Monitoring Of Landfill Soil/Gas Emissions*, Breda Kiernan, Postdoctoral Researcher, Conor Slater, Postgraduate Researcher, King-Tong Lau, Projects Manager, Dermot Diamond, Adaptive Information Cluster, Dublin City University, **Ireland**

*Cleaning of Veliko Ratno Ostrvo, Belgrade, Serbia*, Tanja Cupac, Dejan Markovic, Students, Faculty of Applied Ecology, Singidunum University, **Serbia**

## **TUESDAY, MARCH 20**

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

Conference check-in and late registration

8:00 a.m. – 8:30 a.m.

Coffee

8:30 a.m. - 10:00 a.m.

**Sessions 5**

**SESSION 5A**

*Sludge*

*Effects Of Dual Polymer Conditioning On Sludge Dewaterability And Rheological Behavior Of Alum Sludges*, E. Fulya Koray, Engineer, Organik Kimya A.Ş. , Aysen Erdinçler, Assoc. Prof. , Bogazici University, **Turkey**

*Enzymatic Hydrolysis Of Cellulosic Materials Derived From Municipal Wastewater Treatment Sludges For Ethanol Production*, Dr. Pascale Champagne, P.Eng., Assistant Professor, Queen's University, Caijian Li, Environmental Engineer, AMEC, **Canada**

*Sludge Disinfection And Its Use For Irrigation And Fertilization*, Gad Shani , Emeritus, Shlomit Magidivich , Ph.D Student , Ben Gurion University , **Israel**

*The Role Of Carbonaceous And Proteinaceous Parts Of Extracellular Polymeric Substances On Dewaterability Of Pin-Floc Sludges* , Asli Yildirimli, Student, Aysen Erdinçler, Associate Professor , Bogazici University, **Turkey**

*Utilization Of Paint Industry Sludge For Culturing Earthworms*, Dr. Deepanjan Majumdar, Senior Lecturer, Institute of Science and Technology for Advanced Studies and Research (ISTAR), Vaidehi Buch, Student, Ex Student of Dept. of Environmental Science, ISTAR, now a student at Shaivik Music Institute, India , Jignesh Patel, Ex Student of Dept. of Environmental Science, ISTAR, Praisya Macwan, **India**

## SESSION 5B *Landfill Analyses*

*Characterization Of Humic And Fulvic Acids Extracted From Landfill By Elemental Composition, Nmr And Ftir*, Chai Xiaoli, The state key laboratory of pollution control and resource reuse, **China**

*Effect Of Construction And Demolition Wastes In The Aceticlastic And Propionotrophic Methanogenesis Of Municipal Solid Waste*, Liliana Márquez-Benavides, Researcher-Lecturer, Otoniel Buenrostro-Delgado, Researcher-Lecturer, Universidad Michoacana de San Nicolas de Hidalgo, Ma. del Consuelo Hernandez-Berriel, Researcher-lecturer, Instituto Tecnológico de Toluca, Nuttakan,Nitayapat, **Mexico**

*Fuzzy Logic Simulation Of Biodegradation Of Municipal Solid Waste In Simulated Aerobic And Anaerobic Bioreactors Landfill*, Septa Rendra, Ph.D. Candidate, Dr. Leta Fernandes, Professor, Department of Civil Engineering, University of Ottawa, Dr. Mostafa Warith , Professor, Department of Civil Engineering, Ryerson University , **Canada**

*Leachate And Landfill Gas Extraction From An Unlined Landfill*, Jason T. Chan, Sanitary Landfill Superintendent, City of Sioux Falls Regional Sanitary Landfill, Matthew J. Evans, Project Manager, R.W. Beck, Inc, **USA**

*The Evaluation Of The Municipal Solid Waste Degradation Performance In Semi-Aerobic Landfills*, Aliye Suna Erses, Research Assistant, Turgut T. Onay, Associate Professor , Bogazici University, **Turkey**

*Methane Oxidation in Landfill Biocaps Constructed with Partially Stabilized Compost*, O.D. Hurtado, PhD Student, J.P.A. Hettiaratchi, Associate Professor, University of Calgary, **Canada**

SESSION 5C  
*Recycling of Specific Wastes*

*Evaluation Of Utilization Of Recycled Waste Glass In Japan*, M.Azizul Moqsud, Ph.D Student, S.Hayashi, Professor, Y.J. DU, Associate Professor, Daisuke Suetsugu, Yutaka Hara, Y. Ushihara, Institute of Lowland Technology, Saga University, **Japan**

*Forecasting And Long Term Planning For Computer Waste Management*, Poonam Khanijo Ahluwalia, Research Scholar,, Preeti Loonker ,PG Student, Arvind K. Nema , Assistant Professor, Indian Institute of Technology Delhi, **India**

*How To Recycle 5 Billion Pounds Of Old Carpet*, Robert Peoples, Ph.D, Executive Director, Jeremy Stroop, Associate, Carpet America Recovery Effort (CARE), **USA**

*Management Of Packaging Waste In The Central Business District Of Lagos City, Nigeria.*, Ezechiel Oladapo Longe, PhD., Senior Lecturer, Eberechukwu Emmanuel Igwe, Graduate Student, University of Lagos, **Nigeria**

*Managing Electronic Waste at Local Gov. Level In Australia*, Dr. Georgina Davis, Research Fellow, Dr. Sunil Heart, Senior Lecturer, Griffith University, **Australia**

*Recycling Method Of Sheet Metal Wastes By Non-Smelting Process For CO2 Emission Reductions*, Hiroki Takano, Research Associate, Kimiyoshi Kitazawa, Professor, Hikaru Yamamoto, Graduate Student, Nae Marutani , Department of Environmental Science and Technology, Faculty of Engineering, Shinshu University, **Japan**

*The General Utilizations Of Scrap PC Boards*, Y. L. Yeh, Professor, Department of Chemical Engineering, Ming-Hsin, University of Science and Technology, Cheng Hsiung Lin, Professor, Graduate School of Optomechatronics & Materials, Chung-Win Liu, Instructor, Department of Chemical Engineering, R.S. Shie, C.F. Lin, Y.J. Chiou, Wu-Feng Institute of Technology, **Taiwan**

*Towards Sustainable Management Of Electronic Wastes: Policy Development And Implementation - A Case Study From The Tertiary Education Sector*, Dr. Georgina Davis, Research Fellow, Mr. Malcolm Wolski, Associate Director of Research Computing Services, Griffith University, **Australia**

*Use of Crumb Rubber Wastes In Cement Stabilized Soil Blocks*, Prakash Parasivamurthy, Research Scholar, Dr.S.C.Sharma, Director, C.M.R.T.U, **India**

SESSION 5D  
*Ash*

*Building Bricks With Class F Fly Ash From Illinois Basin Coals- Commercial Production Demonstration*, Sheng-Fu J Chou, Mei-In M. Chou, Professional Scientists, Illinois State Geological Survey, Joseph W. Stucki, Professor, Department of Natural Resources and Environmental Sciences, University of Illinois at Urbana/Champaign, **USA**

*Investigation Of Petrochemical Ashes As Cement Additives On Gas Migration Through Cement Slurry*, Seyed Reza Shadizadeh , Professor, Petroleum University of Technology, Mehdi Zaferanieh, Msc, National Iranian Oil Company, Amin Bazrafkan, Msc, Petroleum University of Technology, **Iran**

*Adsorptive Removal Of Cadmium By Fly Ash Column Study*, B Thakur, Lecturer, Meghnad Saha Institute of Technology, K Bandyopadhyay, Reader And Head, A K Misra, Professor, N. Som, Jadavpur University, **India**

*Determination Of Optimum Fly Ash Usage Amount In Concretes*, İlker Bekir TOPÇU, Professor (Ph.D.), M. Uğur Toprak, Turhan BİLİR, Research Assistants, Eskisehir Osmangazi University, **Turkey**

*Experimental Study Of The Stabilization Of Heavy Metals In Municipal Solid Waste Incineration Fly Ash Using Chemical Agent Combination*, Liu Yuanyuan, PhD Candidate, Wang Li-ao, Professor, Chongqing University, Lin Xiang, Engineer, Chongqing Tongliang Environmental Protection Bureau, Cui Zhi-qiang, Luo Yu, Hu Gang, **P.R. China**

*Mechanical Properties Of Concrete Conatining Coal Bottom Ash As Replacement Of Fine Aggregates In Concrete*, Yogesh Aggarwal, Lecturer, Paratibha Aggarwal, Senior Lecturer, N.I.T.Kurukshetra, Rafat Siddique, Professor, T.I.E.T. Patiala, **India**

*On Compressive Strength Of Commonly Used Grades Of Concrete Using NALCO Fly Ash*, Dhanada Kanta Mishra, Principal, Jagannatha Institute for Technology and Management, **India**

*Washing And Fractionating Treatment To Reduce Dioxin Hazard On Excavated Wastes Generated During Landfill Reclamation*, Kazuo Tameda, Student, Eun-ah Cho, Postdoctoral Research Associate, Sotaro Higuchi, Professor, Takeshi Yamato, Masataka Hanashima, Namhooon Lee, Chung-Hee Chang, University of Fukuoka, **Japan**

*Utilization of Fly Ashes, Boric Acid And Borax Wastes In Cement And Concrete Production*, Dr. Emek Moroydor Derun, Dr. Nurcan Tugrul, Mehmet Piskin, Student, Sabriye Piskin, Yildiz Technical University, **Turkey**

*Pelletization of Pyrite Ash Wastes by Using Calcium Hydroxide, Calcium Chloride and Bentonite for Iron Ore Production*, Dr. Nurcan Tugrul, Dr. Emek Moroydor Derun, Mehmet Piskin, Student, Sabriye Piskin, Yildiz Technical University, **Turkey**

*Use of Lime Added Class-F Fly Ash in the Dykes of an Ash Pond*, Erdal Cokca Prof, Middle East Technical University, **Turkey**

10:00 a.m. - 10:20 a.m.

**Break**

10:20 a.m. – 11:50 a.m.

**Sessions 6**

## SESSION 6A

### *Geotechnical Studies*

*A Model To Predict Settlements And Landfil GAS Generation In Bioreactor Landfills*, Chamil H. Hettiarachchi, Assitant Professor, Lawrence Technological University, Jay N. Meegoda , Professor , New Jersey Institute of Technology, **USA**, Patrick Hettiaratchi, Professor , University of Calgary, **Canada**

*A Simplified Method for Estimating The Magnitude And Rate Of Biodegradation Settlement Of Fill Containing Slightly Organic Materials*, Dorairaja Raghu, Professor, New Jersey Institute of Technology, **USA**

*Shaking Table Tests On Seismic Behavior Of Unsaturated Sand Slopes Reinforced By Carpet Waste Strips*, H. Shahnazari, Associate Professor, B. Ghosairi, A. Fooladi, Graduate Students, , Iran University of Science and Technology, **Iran**

*Solid Waste - An Alternative Material For The Improvement Of Soft Clays*, Dr. Stalin Vanduray Anpet Kaliyamurthy , Assistant Professor of Civil Engineering, Dr. S. Kaliappan, Professor of Civil Engineering, N. Sugavaneswaran, Post Graduate Student, Anna University, **India**

*Studies On Compacted Soil With Fiber Reinforcement As A Landfill Cover System*, Tri Harianto, PhD Student, Shigenori Hayashi , Professor, Yan-Jun Du, Associate Professor, Daisuke Suetsugu , Institute of Lowland Technology (ILT), Saga University, **Japan**

## SESSION 6B

### *Environmental Analyses*

*Environmental Effects Of Recycling And Manufacturing Paper Using The Life Cycle Analysis*, Shoou-Yuh Chang, Samuel Massie Chair Professor, Kimina Chisolm, Graduate Student, NC A&T State University, **USA**

*Selection Of Appropriate Aggregation Function For Calculating Landfill Air Pollution Index*, Somali Pant, Postgraduate Student, Indian Institute of Technology Delhi, Atul Sharma, Environmental Engineer, Ramky Group, Srikanth Meesa,, Officer-Environment, Erudite Engineers Pvt. Ltd., Dinesh Kumar, Betha Raghu, Babu J. Alappat, **India**

*The Waste-Ecosystem: A New Approach For Solid Waste Management*, Mr. O. Gukhool, Mphil/PhD Student, Dr. C.Bokhoree, Lecturer, University of Technology, Mauritius, Mr. P.Kowlessar, Director of Waste Management, Ministry of Local Government, **Mauritius**

## SESSION 6C

### *Recycling Technology*

*Comparing Methods For Reclaiming Magnetic Fluids Used In Materials Separation*, Hanneke Agterhuis, Master Student, Delft University of Technology, Dr. Daniela Trambitas, Senior Researcher, Feyecon Development & Implementation B.V., Erwin Bakker, Ph.D. Student, Delft University of Technology, Peter Rem, **The Netherlands**

*Conversion Of Municipal Waste Plastics To Fuel By Coprocessing With Coal And Petroleum Residue*, Mohammad Farhat Ali, Professor, HEJ Research Institute of Chemistry, Shakeel Ahmed, Chemist in Charge, Industrial Analytical Center Hej Research Institute Of Chemistry, University of Karachi, **Pakistan**

*Effectiveness Of Foamed Waste Glass As A Contaminated Tidal Mud Improvement Material*, M.Azizul Moqsud, Ph.D Student, S.Hayashi, Professor, Y.J.Du, Associate Professor, Daisuke Suetsugu, Yutaka Hara, Y. Ushihara , Institute of Lowland Technology, Saga University, **Japan**

*Polymers Recycling From Automobile Shredder Residue (ASR): Separation Of Poly Vinyl Chloride (PVC) From ASR By Forth Flotation With Ozonation*, Srinivasa Reddy Mallampati, Research Student, Keisuke Kurose, Ph.D. Student, Department of Chemical Engineering, Graduate School of Engineering, , Tetsuji Okuda, Research Associate, Environmental Research and Management Center, Wataru Nishijima, Mitsumasa Okada, Hiroshima University, **Japan**

*Recovery Of Nickel From Spent Catalyst By Single And Multistages Leaching Process*,.R. Ghaneim, Chemical Engineer,Professor H. Farag, Professor Y.A. Eltaweel, Faculty of Engineering Alexandria

University, Mona E. Ossman, Mubarak city for Scientific research, The Informatic Research Institute, **Egypt**

*Recycling Of Manganese Values From Anode Mud-Hazardous Solid Waste Generated During Zinc Electrowinning*, Dr. Navin Chandra, Deputy Director, Dr. S.S. Amritphale, Scientist-E-II, Deepti Pal, Project Assistant, R.K.Chouhan, Satendra Kushwah, Regional Research Laboratory, **India**

*Using Recycled Building In Hot Asphalt Mix*, Dr. Manal Abd Alla, Dr. Mahmoud EL-Saied, Lecturers, Construction Engineering Dept., Faculty of Engineering, Zagazig University, **Egypt**

## SESSION 6D

### *Industrial and Mining Waste Composition*

*Analysis Of Heavy Metals In Solid Industrial Wastes By ICP-OES, ICP-VGA And XRF.*, Tesfaye Seyoum, PhD Candidate, Prof. Samuel Adeloju, Head of School, Monash University, **Australia**

*Characterization Of Gold In Flotation Tailing By Metallurgical And Micro-Beam Techniques At The Sar Cheshmeh Porphyry Copper Mine*, Dr. M. M. Salari Rad, Asst. Prof., Amir Kabir University of Tech., **Iran**, M. Tsunekawa, Professor, T. Hirajima, Associate Professor, Hokkaido University, T. Yoneda, **Japan**

*Chemical Analysis As An Aid To Waste Minimisation In Phosphating Processes*, Sally Spankie, Lecturer, Universitu of, KwaZulu-Natal, Kuveshnee Moodley, Scientist, Sasol Infrachem, Colin Southway, Senior Lecturer, Universitu of KwaZulu-Natal, **South Africa**

*Utilization Of Certain Important Agricultural And Industrial Wastes Of Andhra Pradesh – India*, Dr. E. Nagabhushan, Associate Professor and Vice Principal, Dr D Jaya Prakash, Associate Professor, Dr P. Raja Rao, Assistant Professor, Dr A Ravidernath, Dr S. G. Samadhani, Osmania University, **India**

11:50 p.m. – 12:50 p.m.

### **Poster Session 2**

## POSTER SESSION 2

*A Pilot Study on Domestic Waste Management In Baghdad Area: Sorting From The Source, Recycling*, Mahmood Mahdi Barbooti Dhaher, Chief scientific Researcher, Directorate of Baghdad Environmennt, Busra Ismael Al-Rikabi, Chief Engineer, Petrochemical Research Center, **Iraq**

*Investigation of Petrochemical Ashes As Cement Additives On Gas Migration Through Cement Slurry*, Seyed Reza Shadizadeh , Professor, Petroleum University of Technology, Mehdi Zaferanieh, Msc, National Iranian Oil Company, Amin Bazrafkan, Msc, Petroleum University of Technology, **Iran**

*Research of Fire And High Temperature Effects On Concretes Produced With Waste Crushed Tile*, İlker Bekir TOPÇU, Prof. Dr., Abdullah DEMİR, Research Assistant, Eskisehir Osmangazi University, **Turkey**

*A Study To Prepared Mn-Zn Ferrite Powder From Used Dry Batteries And Waste Pickling Liquid*, Cheng Hsiung Lin, Professor, Graduate School of Optomechatronics & Materials, Chung-Win Liu, Instructor, Department of Chemical Engineering, Wu-Feng Institute of Technology, Yen-Pei Fu, Assistant Professor, Department of Materials Science & Engineering, National Dong-Hwa University, **Taiwan**

*Bagasse Ash Utilization in Building Industry*, Syed Mohd. Ali Jawaaid, Assistant Professor, Sheshank

Raghatate , Graduate Student, M. M. M. Engineering College, Gorakhpur, Dr. Manoj Garg , Director, Environmental & Technical Research Center Roorkee, **India**

*Do The Poor Care About Waste Management (Willingness To Pay For Household Waste Management)*, Rodney Lunduka, Lecturer (PhD Student), University Of Life Science Department of Resource Economics, **Norway**, Peter Soko, Land Conservation Office, Mzuzu ADD, **Malawi**

*Effect Of Using Ground Granulated Blast Furnace Slag On Freeze-Thaw Durability*, İlker Bekir TOPÇU, Professor (Ph.D.), Aytac Unverdi, Going on Ph D Student, Eskisehir Osmangazi University, **Turkey**

*Healthcare Waste Management System In Kathmandu Valley Of Nepal*, Birendra Bahadur Rawal, President, Environmentalists' Association of Nepal (EAN), **Nepal**

*Healthcase Waste Management In Agra City*, Anupam Khajuria, Research Scholar, Dr. Anil Kumar, Assistant Professor, Dr. B.R. Ambedkar University, AGRA, **India**

*Hotel Composting Applicability In Vietnam*, Chi Phuong Hoang, Ph.D Candidate, The Univerisity of Texas at Austin, **USA**, Philip H. Byer, Professor, Department of Civil Engineering, University of Toronto, Murray Haight, Professor, School of Planning, University of Waterloo, **Canada**

*Implications of FAA Advisory Guidelines On Transfer Station Development*, Christina Seibert, Environmental Scientist / Solid, Waste Planner, Walter Willis, Senior Planner, Douglas Allen, Project Engineer, Shaw Environmental, Inc., **USA**

*Influence Of Site Topography And Shape On Capacity Of Municipal Solid Waste Landfill*, Manoj Datta, Professor, I.I.T. Delhi, Prateek Natani, B. Tech Student, Shivashish Bhattachrjee, Civil Engineering Dept. IIT Delhi, **India**

*Land Reclamation Of Poor Farmers From Chromium VI Menace*, Prabhjot Singh Sodhi, National Coordianator,, UNDP/GEF/Small Grants Programme, Mr. Satish Kumar, Dr. Preeti Saxena, Project Officers, Centre For Environment Education, Dr. Padma S Vankar, IIT Kanpur, **India**

*Making Fired Bricks With Spent Equilibrium Catalyst* , Mei-In Melissa Chou, Professor, Sheng-Fu Joe Chou, Professional Scientist, Illinois State Geological Survey/University of Illinois, Lu-Ming Chen, Research Assistant, Vinod Patel, Dept. of NRES, University of Illinois, **USA**

*Movable Treatment Technology Of Domestic Refuse In Small Towns*, Song Fu-Zhong, Ph.D., Li Shu-qing, Adjunct Professor, Wang Xing, Master, College of Resources and Environmental Engineering, Chongqing University, **China**

*Perspectives And Results Found In The City Of Mogi Das Cruzes, State Of Sao Paulo, Brazil, Through The Archaeological Inquiry In A Closed Landfill Site*, Andre Wagner Oliani Andrade, Professor Dr., Cruzeiro do Sul University – UNICSUL, Vagner Roberto Elis, Professor Dr., São Paulo University – USP, **Brazil**

*Pollutant Removal From Pulp And Paper Mill Effluent By Lysimetric Treatment And Assessment Of Its Agropotentiality*, Dr. Anil Kumar, Assistant Professor, Anupam Khajuria, Research Scholar, Dr. B.R. Ambedkar University, AGRA, **India**

*Remote Sensing As A Tool To Enforce European Regulation On Mining Wastes*, Stephane D. Chevrel , Project Manager, BRGM, **France**, Stefan Sommer, Senior Researcher, DG JRC, European Commission , **Italy**

*Restoring the Derelict Minedland On The Jos Plateau State Of Nigeria Through Sanitary Landfill*, Francis Ahmadu, Senior Research Officer, Federal School of Mines/Institute of Mining & Geology, David Dachomo, Principal Lecturer, College of Education, **Nigeria**

*Reuse Of Waste Materials For Manure Stabilization* , Rominder Suri, Associate Professor, Hongxiang Fu, Research Assistant, Uthappa Devaiah Mandepanda, Graduate Student, Deepthi Kalyanam, Mrinalini Madabhushanam, Villanova University, **USA**

*Solid Waste Management In Asia's Largest Alumina Refinery Of National Aluminium Company Limited (NALCO),India.*, Mr. S.K.Patnaik, Head of the Department and Deputy General Manager (SH&E), Dr.Ashutosh Roul, Deputy Manager (Environment), National Aluminum Company Limited (NALCO), **India**

*Throwing Out Our Clothes: The Relation Between Income And Textile Waste Generation Among New York City Residents*, Samantha MacBride, Deputy Director, Recycling, NYC Department of Sanitation, **USA**

*Use Of Agrowaste For Removal Of Cr(VI) From Tannery Effluent*, Dr. Asha Gupta, Lecturer, Reena Yadav, Meenaxi Chillar, Students, Department of Env. Science & Engg., Guru Jambheshwar University of Science and Technology (Haryana), **India**

*Use Of Crumb Rubber Wastes In Cement Stabilized Soil Blocks*, Prakash Parasivamurthy, Research Scholar, Dr.S.C.Sharma, Director, C.M.R.T.U, **India**

*Integrated Solid waste Management for Pune City, India*, Dr. K.C.Khare, Professor in Department of Civil Engineering , Mr. S.T.Mali, Lecturer, Sinhgad College of Engineering, **India**

12:50 p.m. – 2:00 p.m.

**Luncheon**

2:00 p.m. – 3:30 p.m.

**Sessions 7**

**SESSION 7A**

*Waste Collection*

*A Case Study On The Optimization Of Municipal Solid Waste Collection* , Karolina A. Filipiak , Student, Layek Abdel-Malek, Professor, Hsin-Neng Hsieh , Professor , Jay Meegoda, New Jersey Institute of Technology, **USA**

*A Cross-National Comparison Of Strategies For Urban Solid Waste Collection*, Federico Bonicelli, Ph.D. Candidate, Architecture and Planning Dept., Faculty of Engineering, University of Bologna, **Italy**

*Measuring The Efficiency Of Solid Waste Collection Routes*, Thuy T.T. Nguyen, Ph.D candidate, Bruce G. Wilson, Associate Professor, University of New Brunswick, **Canada**

*Private Sector Participation In Municipal Solid Waste Management (Case Study Of Lagos State Experience)* , Lasis Adedoyin K.S, Senior Environmental Officer, Lagos State Ministry of Environment, **Nigeria**

*The Decentralisation For An Efficient Management Of Municipal Solid Waste Of Yaounde Town In Cameroon*, Sotamenou Joel, Doctorate in Economics/ Researcher in Waste Management, University of Yaounde II - Soa, Faculty of Economics and Management, **Cameroon**, Laurent Parrot, Doctor in Economics / Senior Researcher, Centre de Coopération en Recherche Agronomique pour le Développement (CIRAD)/ A French institute of Agriculture, **France**, Kamgnia Dia Bernadette, University of Yaounde II - Soa, Faculty of Economics and Management, **Cameroon**

## SESSION 7B

### *Hazardous Wastes*

*A Radical New, Environmentally Acceptable Approach To Hazardous Waste Management In The UK: Plasma Arc Technology*, D. Degan, Engineer, Tetronics, Professor Paul S. Phillips, University of Northampton, **UK**

*Adsorption Of Cadmium And Zinc By Zeolite Tuffs*, Lua'y A. Zeatoun , Assistant Professor, Sama Alkarami , Mazen Darwish, Jordan University of Science and Technology, **Jordan**

*Application Of Coal Combustion Residues And Marble Processing Residues For Immobilising And Recycling Hazardous Jarosite Waste Released From Zinc Industry*, Asokan Pappu, Mohini Saxena, Scientists, Regional Research Laboratory (CSIR), Shyam R. Asolekar, Indian Institute of Technology, **India**

*Complications Of Exposure Of Hazardous Asbestos During Ship Breaking In India*, Prof. Ranajit Chakraborty, Dean & Professor, Department of Business Management, University of Calcutta, Kalyan Mitra , Professor, Marine Engineering & Research Institute, **India**

*Hazards Of Solid Waste As A National Emergency*, Hon. Anslam Imobighe, Speaker, Owan East Local Government Council, **Nigeria**

*Pt And Rh Recovery From Waste: Catalytic Converters*, Duanghatai Chaikla, Master degree student, Thamrongrut Mungcharoen, Assistant Professor, Attasak Jaree, Assistant Professor, Department of Chemical Engineering, Kasetsart University, **Thailand**

## SESSION 7C

### *Composting and Organics*

*A Robust Mathematical Model Of In-Vessel Composting Of Cellulosic Substrate*, Dr. C. Bokhoree, Lecturer, Miss P. V. Ramasamy, Research Assistant, Dr. R. Mohee, Assistant Professor, University of Technology, **Mauritius**

*An Empirical Approach Of Aerobic Digestion Of Domestic Solid Waste*, M. Habibur Rahman, Professor, Bangladesh University of Engineering & Technology (BUET), Abdullah Al-Muyeed, Lecturer, Dhaka University of Engineering & Technology (DUET), **Bangladesh**

*Anaerobic Digestion Of Alkali-Pretreated Slurry Of Organic Fraction Of Municipal Solid Waste*, Voltaire L. Acosta, Analiza Palenzuela-Rollon, Associate Professor, Department of Chemical Engineering, University of the Philippines, **Philippines**, Kiyohiko Nakasaki, Professor, Department of Material Science & Chemical Engineering, Shizuoka University, **Japan**

*Biomangement Of Sago Sludge Using Eisenia Foetia*, Rajesh Banu, PDF, Ick-Tae Yeom, Associate Professor, Sungkyunkwan University, **South Korea**, S. Kaliappan, Director, Anna University, Rajesh Banu and S. Kaliappan, **India**

*Stabilization Of Industrial Sludges By Composting And Assessment Of Maturity As Indicator Of Compost Quality – A Case Study*, C. Aparna, Research Scholar, Dr.V. Himabindu, Assistant Professor, Jawaharlal Nehru Technological University, **India**, Y. Anjaneyulu, Visiting Professor, Jackson State University, **USA**

*Waste Reduction By Biocomposting Using Eudrillus Eugeniae*, Dr. P.Lakshmanaperumalsamy, Professor , S. Jayashree, J.Rathinamala, Research Scholars, Bharathiar University , **India**

*Development of Biodigesters for the Final Treatment of Municipal Organic Waste and Generation of Biogas as an Alternative Energy Source for a Sustainable Household*, Sara Ojeda-Benitez, Researcher, Nicolás Velazquez-Limón, Researcher, Marcela Ovalle-Marroquín, Student, Universidad Autónoma de Baja California, Liliana Márquez-Benavides, Researcher-Lecturer, Dr. Otoniel Buenrostro-Delgado, UMSNH, **Mexico**

## SESSION 7D

### *Agricultural Wastes*

*Development Of Livestock Manure Disposal Model Reflecting Preference Survey To Farmers For Sustainable Manure Utilization System*, Tomoko Iwata, Ph.D Student, Sohei Shimada, Associate Professor, The University of Tokyo, **Japan**

*Effects Of Dilution Of Aquaculture Solids On Anaerobic Digestion Process*, Manoj Ramachandran, Research Assistant, Kripa S. Singh, Associate Professor, Bruce G. Wilson, Associate Professor, University of New Brunswick, **Canada**

*Kinetic, Isotherm And Transport Modeling For Sorption Of Basid Red On To Activated Carbon Prepared From Ipomoea Carnea Stem Waste*, S.Karthikeyan, Assistant Professor of Chemistry, Erode Sengunthar Engineering College , M. Jambulingam, Professor of Chemistry, PSG College of Arts and Science , A.P. Shekhar, Assistant Professor of Chemistry, Sri Krishna College Of Engineering and Technology, B.Sivakumar, NanDha Engineering College, **India**

*Manufacture Of Organic Fertiliser From Vegetable Market Garbage (MG) Using Eppawela Rock Phosphate And Its Effects On Rice Cultivation C Fertiliser From Vegetable Market Garbage Using Eppawela Rock Phosphate And Its Effects On Rice Cultivation*, S.A.S. Perera, Senior Lecturer, University of Moratuwa, **Sri Lanka**

*Patented Process For Rapid Digestion Of All Types Of Bio Mass Into Organic Fertiliser, A Solution To The Urban Solid Waste Problem And The Fertiliser Problem In Sri Lanka*, , S.A.S. Perera, Senior Lecturer, University of Moratuwa, **Sri Lanka**

*Use Of Agrowaste For Removal Of Cr(VI) From Tannery Effluent*, Dr. Asha Gupta, Lecturer, Reena Yadav, Student, Meenaxi Chillar, Student, Department of Env. Science & Engg., Guru Jambheshwar University of Science and Technology (Haryana)  
**India**

*Utilization Of Java Kapok (Ceiba Pentandra) In The Textile Industry*, Abdul-Raheem Giwa, Lecturer 1, Sunmonu, O.K., Associate Professor, Ahmadu Bello University, **Nigeria**

*Wastes To Wealth Programmes -Waste Re-Use As Organic Fertilizer In Nigeria*, Dr. Chijioke C. Ikokwu, CEO, Dumik International Consultants, Elizabeth A. Nwanze, Teacher, Esteem International School, Ikeji Ogwude C.J., Environmental Scientist/Manager, Dumik International Consultants, **Nigeria**

## SESSION 7E

### *Recycled Tires*

*Determination Of Waste Tire Generation Rate And Characteristics For The Island Of St. Kitts* Charles S.

Higgins, PE, President & Principal Engineer, EDGE Group, Inc., Edsel B. Daniel, Research Assistant Professor, Civil & Environmental Engineering, **USA**, Alphonso E. Bridgewater, General Manager, Solid Waste Management Corporation, **St. Kitts & Nevis**

*Determining Effects Of Recycled Asphalt Pavement Content On Field Performance*, Magdy Abdelrahman, Assistant Professor, Scott Schram, Research Assistant, North Dakota State University, **USA**

*Recycled Tires As Stay-In-Place Forms For Pavers*, Dr. Charles A. Weiss, Jr., Research Geologist, Dr. W. Allen Roberson, Supervisory Engineer, Mr. Joe G. Tom, Research Civil Engineer, Dr. Philip G. Malone, U.S. Army Engineer Research and Development Center, **USA**

*Waste Tire Recycling in Louisiana*, Chukwu Onu, Professor, Southern University, **USA**

## SESSION 7F

### *Waste Treatment and Utilization*

*A Case Study-The Behavior Of Electroplating Waste Mixed With Flyash And Cement*, Syed Salahuddin Shah, Professor, Syed Salahuddin Shah, Professor, A.M.U. Aligarh, **India**

*Efficacy Of Fly Ash For Adsorptive Removal Of Fluoride*, K.Bandyopadhyay, Reader and Head, A.K.Misra, Devaleena Chaudhuri, Chandrima Goswami, Jadavpur University, A.Majumdar, Ex -head,AIHH & PH, AIHH & PH, **India**

*Studies On Briquetting Fines And Wastes Of Iron And Steel Plants*, Dr Jaya Prakash.D, Associate Professor, Dr E. Nagabhushan, Associate Professor, Dr. A. Ravindranath , Associate Professor, Osmania University, **India**

*Utilization Of Solid Waste Polymeric Materials*, Dr.Anjani K Mishra, Professor, H B T I Kanpur, Sunder Lal, R A, IIT Kanpur, **India**

3:30 p.m. – 3:50 p.m.

**Break**

3:50 p.m. – 5:20 p.m.

**Sessions 8**

## SESSION 8A

### *Utilization of Industrial Wastes in Construction*

*Research Of Fire And High Temperature Effects On Concretes Produced With Waste Crushed Tile*, İlker Bekir TOPÇU, Prof. Dr., Abdullah DEMİR, Research Assistant, Eskisehir Osmangazi University, **Turkey**

*Characteristics And Utilization Of Slag Obtained By The Co-Melting Of MSWI Ash And Industrial Sludge*, Wei-Shih Hsieh, Research Assistant, Kung-Cheh Li, Professor, Graduate Institute of Environmental Engineering, National Taiwan University, **Taiwan**

*Effect Of Spent Foundry Sand As Partial Replacement Of Fine Aggregate On The Properties Of Concrete*, Rafat Siddique, Professor & Head, Ishatpreet Kaur, Graduate Student, Department of Civil Engineering, Thapar Institute of Engineering & Technology, **India**

*Effect Of Using Ground Granulated Blast Furnace Slag On Freeze-Thaw Durability*, İlker Bekir TOPÇU, Prof. Dr., Aytac Unverdi, Going on Ph D Student, Ahmet Raif BOGA, Research Assistant, Eskisehir Osmangazi University, **Turkey**

*Effects Of Slag's Fineness On High Temperature Durabof Mortars*, İlker Bekir TOPÇU, Prof. Dr., Turhan BİLİR, Research Assistant, Ahmet Raif BOGA, Research Assistant, Eskisehir Osmangazi University, **Turkey**

*Use Of Slags In Production Of Sulphate Resistant Mortars*, İlker Bekir TOPÇU, Prof. Dr., Ahmet Raif BOGA, Research Assistant, Turhan BİLİR, Research Assistant, Eskisehir Osmangazi University, **Turkey**

*Utilization Of Industrial By-Products/Wastes In Concrete: An Overview*, Ritu Gupta, Lecturer, Department of Chemical Engineering & Technology, Panjab University, Rafat Siddique, Professor & Head, Department of Civil Engineering, Thapar Institute of Engineering & Technology, **India**

*Maximum Utilization of Used Oils for Cleaner Environment*, F.H.Ashour, Associate Professor, S.M.El Marsafy, Associate Professor, Faculty of Engineering-Cairo University, Hemdan Nour Eldin, Assistant Chairman , MIDOM, **Egypt**

## SESSION 8B

### *Waste Management in Developing Regions*

*Anthropogenic Impact On Groundwater Resource In Developing Countries, Cases In Dire Dawa Town, Ethiopia*, Eyilachew Y. Abate, Groundwater Resources Engineer, Norwegian University of Life Sciences (UMB), **Norway**

*Efficacy Assessment Of Municipal Solid Waste Management System Of Greater Mumbai, India*, Anil Kumar Dikshit, Associate Professor, Prakash V. Shirsat, Graduate Student, Indian Institute of Technology Bombay, **India**

*Integrated Waste Management System In Mindanao, Philippines*, Oliva P. Canencia, Director, Research and Development, Ruth G. Cabahug, Vice President for Academic Affairs, Ricardo E. Rotoras, President, Mindanao Polytechnic State College, **Philippines**

*Municipal Solid Waste Management In Penang, Malaysia: Practice And Challenges*, Siti Suzilah Faharuddin, Project Coordinator, United Nations Development Programme (UNDP), **Malaysia**

*Municipal Solid Waste Treatment & Recycling Technologies For Developing Countries - A Typical Nigerian Case Study*, Chidubem Uchendu, Graduate Student, Fachhochschule (University Of Applied Sciences), Emden, **Germany**

*On-Site Storage Of Municipal Solid Waste In Bangladesh*, M. Khaled Hassan Chowdhury, Assistant Professor, Dr. M. Alamgir, Professor, Khulna University of Engineering & Technology, **Bangladesh**

*Proposing A Private Sector Participation Model In Waste Management For Developing Countries: Frameworks From Lagos Study In Nigeria*, Dr. Odewumi. S.G, Senior Lecturer, Lagos State University, **Nigeria**

*Solid Waste Management System Of A Medium Size Indian Town: A Case Study Of Aligarh City*, Nadeem Khalil, Sr. Lecturer/Doctoral Student, Department of Civil Engineering Aligarh Muslim University/Indian Institute of Technology Delhi, **India**, Ljiljana Rodic, Sr. Lecturer (Formerly), Department of Urban Water and Sanitation UNESCO-IHE Institute for Water Education Delft, **The Netherlands**, Atul K. Mittal, Associate Professor, Department of Civil Engineering Indian Institute of Technology Delhi, Ashok K. Raghav, **India**

*Solid Waste Management, Poverty And The Environment*, Claudel Noel, Doctoral Student, University of the West Indies at Mona, **Jamaica**

*The Local Governments And Their Roles In Solid Waste Management : Case Study Of Lagos State, Nigeria*, Mr. Chime, Joseph Anigbogu, Executive Consultant, Dr. Ossy Peter Ejike, Executive Consultant, Dumik International Consultants, **Nigeria**

## SESSION 8C

### *Health Care Wastes*

*Biomedical Waste An Approach For Clean Development Mechanism*, Dr. E. Nagabhushan, Associate Professor and Vice, Principal, Dr D Jaya Prakash, Associate Professor, Dr P Raja Rao, Assistant Professor, Dr A Ravidernath, Dr Indra Mohan, Osmania University, **India**

*Common Healthcare Waste Appropriate Management Plant(Champ) - An Economically Appropriate Approach For Bio Medical Waste Management In Rural Areas And Smaller Cities Of India*, Dr. Shyamala Mani, National Coordinator, Shubhangi Wankhede, Prog Officer, Centre for Environment Education , **India**

*Medical Waste Generation And Disposal Methods In Hospitals And Other Health Care Institutions In Lagos State, Nigeria*, Ernest Chibueze Ukwuoma, Daniel Chinagozi Nwogwugwu, Ifeoma Comfort Obi, Students, Federal University of Technology, Owerri, **Nigeria**

*Medical Wastes*, Thomas M. Kwaba , Community Health Nurse, Nyakerubo Medical Services, **Kenya**

*Realizing Effective Medical Waste Management From Cradle To Grave In Nigeria*, Dr. Gozie Vincent Offiah, Purchasing Manager, Engr. Christopher C. Onwuakpa, Environmental Materials Manager, Nigerian National Environmental Scorecard Project, **Nigeria**

*The Ethical Aspects Of Designing A Healthcare Waste Management Research Proposal.*, Anne C Woolridge, PhD student, Paul Phillips, Professor, The University of Northampton, Thomas Coskeran, Senior Lecturer, Liverpool John Moores University,,Robin Crockett, The University of Northampton, Senior Lecturer, School of Applied Sciences, **UK**

## SESSION 8D

### *Waste Generation*

*Analysis Of The Solid Waste Management System In The City Of Bento Gonçalves/RS/Brazil*, Vania Elisabete Schneider, Professor, Denise Peresin, Technich, Mauricio D'Agostini Silva, Student, Alexandra Rodrigues Finotti, Cláudia Teixeira Panarotto, Caxias do sul University, **Brazil**

*Characterisation Of Household And Commercial BMW Generation According To Socio-Economic And Other Factors For The Dublin Region*, Mary Purcell, PhD Researcher, Dr. W.L. Magette, Senior Lecturer, School of Architecture, Landscape & Civil Engineering, University College Dublin, **Ireland**

*Daily And Seasonal Variations In Waste Generation: Lagos Case*”, Dr. Odewumi. S.G, Senior Lecturer, Lagos State University, **Nigeria**

*Integrated Management Of Rural Waste In The COREDE Serra Area/RS/Brazil*, Vania Elisabete Schneider, Professor, Alexandra Rodrigues Finotti, Professor, Daniel Schmitz Consult, Partner, Cláudia Teixeira Panarotto, Denise Peresin, Gisele Cemin, Caxias do Sul University, **Brazil**

*Municipal Solid Waste Generation And Characterization Studies In Three Mexican Cities*, Buenrostro Otoniel , Professor, Research Institute for Natural Resources, UMSNH., Ojeda, Sara, Engineering Institute, Gerardo Bernache , Professor, CIESAS de Occidente, Márquez Liliana, Hernández Consuelo, **México**

*The Effects Of Human Behaviour On The Generation Of Municipal Solid Waste: A Case Study Of Johor Bahru*, Mohd.Yusof, Badruddin, Lecturer, Md. Din, Mohd Fadhil, Lecturer, Fadil Othman, Associate Professor, Universiti Teknologi Malaysia (UTM), **Malaysia**

## SESSION 8E

### *Case Studies*

*Developing An Urban Waste Management Strategy For India-Lessons From Chandigarh*, Dr Deepak Kapur, Professor, Institute of Management Technology (IMT), **India**

*MSW Treatment Mode And Policies Of Towns In West China*, Wang Li-ao, Professor, Bao Liang, Wang Min, PhD Candidates, Zhong Shan, Chongqing University, **P.R. China**

*Scenario Analysis Of Residential Solid Wastes Treatment In The Small Towns Of The Three Gorges Region*, Liu Yuanyuan, PhD Candidate, Wang Li-ao, Professor, Huang Chuan, Associate Professor, Li Baizhan, Ma Xi, Hu Gang, Chongqing University, **P.R. China**

*Site Selection For Disposal Of Wastes Using Remote Sensing And GIS Techniques- A Case Study Of Ratlam Area Of Madhya Pradesh, India*, Dr. B.K. Singh, Reader in Applied Geology, Department of Civil Engineering, Govt. Engineering College, **India**

*Solid Waste Management In Asia's Largest Alumina Refinery Of National Aluminium Company Limited(NALCO),India*, Mr. S.K.Patnaik, Head of the Department and Deputy General Manager (SH&E) , Dr.Ashutosh Roul, Deputy Manager (Environment), National Aluminum Company Limited (NALCO), **India**

*Sustainable Solid Waste Management*, Ashish Ghimire, Division Chief, Dept Water Supply and Sanitation, Lakshmi Nath Nepal, Engineer, CBWSSP, **Nepal**

*Post-Disaster Solid Waste Management; Case Study Of The Experiences Of Sri Lanka In Post-Tsunami Rebuilding Process*, P.M.D. Ranga N. Pallawala, Programme Coordinator, Practical Action (ITDG) - South Asia Programme, **Sri Lanka**

*Integrated Solid waste Management for Pune City, India*, Dr. K.C.Khare, Professor in Department of Civil Engineering , Mr. S.T.Mali, Lecturer, Sinhgad College of Engineering, **India**

5:30 p.m. – 6:30 p.m.  
**Cocktail Reception**

**WEDNESDAY MARCH 21**

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

8:00 a.m. – 9:00 a.m.  
Coffee

9:00a.m. – 2:00 p.m.  
Field Trips

9:00a.m. – 3:00 p.m.  
Continuing Education Courses  
(additional fee)

3:00 p.m.  
**Closing Session**