

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

Philadelphia, PA, USA

March 30 - April 2, 2008

AGENDA

(updated March 23, 2008)

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Founder:
Iraj Zandi
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Chair:
Ronald L. Mersky
Widener University

Conference Secretary:
Kathleen Donaghy
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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, Liverpool John Moores University, 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
- Noah Galil, Technion-Israel Institute of Technology, Israel
- William L. Magette, University College Dublin, Ireland
- Ilan Nissim, Ministry of Environmental Protection, 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
- Sally Spankie, University of KwaZulu-Natal, South Africa
- Jerry Uhoo, National Assembly, Abuja, Nigeria
- Bruce G. Wilson, University of New Brunswick, Canada
- Anita Závodská, Barry University, USA

CONFERENCE SUMMARY

SUNDAY, MARCH 30, 2008

Pre-Conference Tour of Philadelphia
Opening Reception

MONDAY, MARCH 31, 2008

Opening Plenary

- 1A Recycling 1
- 1B Contaminated Sites and Landfill
- 1C Energy Recovery
- 1D MSW Systems Management

- 2A Utilization of Fly Ash
- 2B Construction and Demolition Wastes
- 2C Biological Treatment
- 2D Geotechnical Topics
- 2E Waste Composition and Generation

- 3A Public Involvement
- 3B Chemical and Biochemical Treatment
- 3C Electronic Wastes
- 3D Environmental Analysis
- 3E Kitchen and Organic Wastes

- 4A Integrated MSW Management
- 4C Biochemical Topics
- 4D Sludge
- 4E Workshop on Sponge Iron Plants
- 4F Waste Utilization in Paving

Poster Session 1

TUESDAY, APRIL 1, 2008

- 5A Policy
- 5B Composting Technology
- 5C Management of Special Wastes
- 5D Landfill Gas and Liners

- 6A Agricultural Wastes Utilization
- 6C Health Care Wastes 1
- 6D Mining and Metal Works Wastes
- 6E Use of Wastes in Construction 1

Poster Session 2

- 7A Landfill and Leachate
- 7B Composting Applications
- 7C Developing Regions Case Studies 1
- 7D Industrial Wastes
- 7E Recycling 2

- 8A Innovative Technologies
- 8B Use of Wastes in Construction 2
- 8C Health Care Wastes 2
- 8D Developing Regions Case Studies 2

WEDNESDAY, APRIL 2, 2008

Technical Field Trips
Closing Meeting

DETAILED AGENDA

SUNDAY, MARCH 30

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 31

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

Recycling 1

Locating Regional Materials Recovery Facilities: A Case Study, Shoou-Yuh Chang, Professor, North Carolina A&T State University, Rebecca Cramer, Project Engineer, Arcadis, Kumar Bindiganavile, Environmental Engineer, ECS Carolinas, LLP, Elobeid Elobeid, **USA**

Scrap Tire Recycling; Yesterday, Today and Tomorrow, H. Barry Takallou, Ph.D, President, CRM, Bill Thornton, Director of Solid Waste, County of Maricopa, **USA**

Strategies for Developing a Financially Self-Sustaining Rural Recycling Program, Dr. Alfred H. Stiller, Board of Directors, Hayward Helmick, Board of Directors, Dr. Robert McConnell, Board of Directors, Laura Stiller, Monongalia County Solid Waste Authority, **USA**

The Description Of Waste "Do The Academics Have It Wrong", Greg Panigas, General Manager of South Australia, SITA Environmental Solutions, **Australia**

When Is A Waste Not A Waste "Is This The Right Question", Mike Haywood, General Manager, Resourceco Pty Ltd, **Australia**

SESSION 1B
Contaminated Sites and Landfill

Bioremediation of Contaminated Sites in the Chilean Patagonia: A Complex Project Management Case Study, Eduardo Ordóñez-Ponce, Project Manager, Juan R. Candia, Programme Director, Fundación Chile, **Chile**

Study on Factors Controlling Biodegradation Rate of Tetrachloroethylene for Remediation of Illegal Dumping Sites, Mika Otsuka, , Master Student, Toru Furuichi, Professor, Kazuei Ishii, Assistant Professor, Noboru Tanikawa, Hokkaido University, **Japan**

Removal of Trichloroethylene From Contaminated Soil By Flushing With Sodium Dodecyl Sulfate-Containing Solution, Yi-Hung Chen, Assistant Professor, National Kaohsiung University of Applied Sciences, Ching-Yuan Chang, Professor, National Taiwan University, e-Lueng Shie, Assistant Professor, National I-Lan University, Chyow-San Chiou, **Taiwan**

Stabilisation Solidification of 'Galligu', Arrash Shirani, Keith Williams, Professor, Anthony Griffiths, Professor, Andrew Bates, Christine Mardle, Cardiff University, **UK**

Effect Of Paint Waste And Surfactant Waste On The Degradation Of Anaerobic Bioreactor Landfill Components, Vijesh Karatt Vellatt, Engineer, Greeley and Hansen, Dr. John T. Novak, Professor, Virginia Tech, **USA**

SESSION 1C
Energy Recovery

Waste-to-Energy in Romania. Case Study - City of Bucharest, Dr. eng. Alexei Atudorei, Senior Researcher. Sc Rosal Grup Srl, Dr. eng. Elena Dumitru, Director, Ministry of Environment and Sustainable Development - Directorate of Waste Management, **Romania**

Assessing The Feasibility Of Waste Derived Fuels With High Moisture Contents, Dr Richard Marsh, Project Manager, Vincent Cleary, Research Associate, Tony Griffiths, Keith Williams, Professors, Cardiff University, **UK**

The Influences of K₂CO₃ and ZnO on the Major Products Obtained from the Plasma Torch Pyrolysis of Sunflower-oil Cake, Je-Lueng Shie, Assistant Professor, National I-Lan University, Ching-Yuan Chang, Professor, National Taiwan University, Taipei, Chin-Ching Tzeng, Institute of Nuclear Energy Research, Atomic Energy Council, Chung-Yu, Wu, Wen-Kai Tu, Min-Ha, Yuan, Lin-Kai You, Kai-Lung Lin, Heng-Yi Li, Ching-Hui Kuo, Yuh-Jenq Yu, and Lieh-Chih Chang, **Taiwan**

Major Products Obtained from Steam Plasma Torch Gasification of Sunflower-oil Cake, Je-Lueng Shie, Assistant Professor, National I-Lan University, Ching-Yuan Chang, Professor, National Taiwan University, Taipei, Chin-Ching Tzeng, Institute of Nuclear Energy Research, Atomic Energy Council, Chung-Yu, Wu, Kai-Lung Lin, Yi-Hung Chen, Wen-Kai Tu, Min-Ha, Yuan, Heng-Yi Li, Ching-Hui Kuo, Yuh-Jenq Yu, and Lieh-Chih Chang, **Taiwan**

Incineration Process and Calorific Value of Municipal Solid Waste (MSW): Innovative Quality Control Strategies, Giuseppe Bonifazi, Full Professor, Silvia Serranti, Senior Scientist, Sapienza - Università di Roma, **Italy**

SESSION 1D
MSW Systems Management

Sustainable Waste Management System Design: Developing and Utilizing an Energy Balance to Assess Efficiency and Propose Enhancement, David Babson, Graduate Assistant, Donna Fennell Ph.D., Uta Krogmann Ph.D., Associate Professors, Beth Ravit Ph.D., Rutgers University, **USA**

Improving Workforce Resource Management Practice: A Case Study Of A UK Park Home Manufacturer, Joanna Walker, KTP associate/Environmental Project Manager, Dr Janet Jackson, Lecturer in Ecology and Environmental Management, Terry Tudor, Research Fellow - Wastes Management, Paul Philips, Professor, University of Northampton, **UK**

Software Tool For Designing, Optimising And Managing Household Waste Collection Services, Elodie Dubois, Business Expert, Olivier Trullier, Optimization Business Unit Manager, MASA Group, **France**

Analytic Hierarchy Method of the Priority Utilization List for Hazardous Waste, Ying Chen, Jinhui Li, Professor, Tsinghua University, **China**

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

Break,

11:20 a.m. – 1:10 p.m.

Sessions 2

SESSION 2A
Utilization of Fly Ash

Hydraulic Conductivity of Fly Ash for Sealing Layer, Katarzyna Zabielska-Adamska, Assistant Professor, Bialystok Technical University, **Poland**

Utilization and Disposition of Flying Ash from Coal-firing Power Plant, Joseph F. Chiang, Professor, State University of New York, College at Oneonta, **USA**

Successful Production Of Fired Bricks Using IGCC Slag - A Preliminary Technical Feasibility Study, M.-I. M. Chou, Professional Scientist/Adjunct Professor, Lu-Ming Chen, Ph.D. Graduate Student, University of Illinois, S.-F. J. Chou, Sr. Scientist, SMC Environtech Inc., J.W. Stucki, Professor, University of Illinois, **USA**

Recycling Coal-Fired Power Plant "Fly Ash", Matthew Franchetti, Assistant Professor and Director of the Environmentally Conscious Design and Manufacturing Lab, Elaine Vonderembse, Student, The University of Toledo, **USA**

*Effect of Fly Ash on Soil Properties, Growth Performance and Heavy Metal Uptake in Three Cultivars of Mung Bean (*Vigna radiata* L.)*, Anupama Singh, Research Scholar, S.B. Agrawal, Professor, Banaras Hindu University, **India**

SESSION 2B
Construction and Demolition Wastes

Laboratory Investigation of Moisture Susceptibility of Hot Mix Asphalt Mixtures with Waste Roofing

Shingles, K.M. Purcell, Soon-Jae Lee, Serji Amirkhanian, **USA**

Results of a National Survey of Construction and Demolition Debris Recycling Facilities, Andria Vachon, Master's Graduate Student, John M. Halstead, Professor & Chair University of New Hampshire, **USA**

SESSION 2C

Biological Treatment

European Case Studies for Anaerobic Digestion of Biomass, Dr.-Ing. Dieter Korz, Managing Director, Ros Roca IMA S.L., **Germany**

Biogas Potential And Digestion Rates of Food Wastes In Anaerobic Digestion Systems, Dr Richard Marsh, Project Manager, Julian Steer, Research Associate, Tony Griffiths, Keith Williams, Professors, Cardiff University, **UK**

Construction and Operation Commissioning of the Mechanical Biological Treatment Plant (MBT) Kahlenberg – Results of A Monitoring Research Project Which Is Promoted By The EC, Prof. Dr. Gerhard Rettenberger, Senior Consultant, Ingenieurgruppe RUK, **Germany**

Methane Production From Anaerobic Digestion Of Food Waste, Massimiliano Fabbricino, Associate Professor, University of Naples Federico II, Giovanni Esposito, Assistant Professor, University of Cassino, **Italy**

Manufacture of Bioethanol from Fruit and Vegetable Waste, S.A.S. Perera, Senior Lecturer, M.A.S. Perera, Chemical Engineer, D.C.G. Mahawatte, R.M.C.G. Ratnasinghe, S.G. Walliwala, K.W.C. Mahesh, D.H.N. Perera, Department of Chemical and Process Engineering, University of Moratuwa, **Sri Lanka**

Study of Exit Gas Composition in a Bubbling Fluidized Bed Combustor Using Rice Husk, S.K.Mohapatra, Prof. and Head, Jimmy Bhandari, Student, Thapar University, **India**

SESSION 2D

Geotechnical Topics

Technical Safeguards for Earth Constructions with Demolition Waste and Contaminated Soils, Heyer, Managing Director, Birle, Research Assistant, Zentrum Geotechnik, Technical University of Munich, **Germany**

A Review of the Biochemical and Mechanical Processes Involved in Municipal Solid Waste Landfill Settlement, Joseph J. Lifrieri, P.E., C.P.G., P.P., Senior Vice President, Paulus Sokolowski and Sartor, LLC., Dorairaja Raghu, Ph.D., P.E., Professor, New Jersey Institute of Technology, **USA**

SESSION 2E

Waste Composition and Generation

Modeling the Energy Content of MSW of Delhi, Sushmita Mohapatra, Assistant Professor, Bharati Vidyapeeths College of Engineering, Kasturi Gadgil, Professor, IIT Delhi, **India**

Determinants of Municipal Solid Waste Generation and Recycling in Western New York Communities, Ian

Miller, Senior Economist, Amber Lauzon, GIS Analyst, Bruce Wattle, Air Quality Meteorologist, Merrilee Ritter, Statistician, Ecology & Environment Inc., **USA**

Municipal Solid Waste Disposal and Management in Akola District of Maharashtra (India) – A Case Study, Prof. Yayati B Taide, Professor of Forestry, College of Forestry, Dr. PDKV, , Dr. N.G.V Rao, Associate Professor, University Department of Entomology, Dr. PDKV, , Dr. Vijay P Mane, Associate Professor, College of Forestry, Dr. PDKV, , **India**

Criteria Based Spatial Decision Support System for Municipal Solid Waste Management in Nagpur Urban Area using GIS, Y B Katpatal, Dean, Rohit Mane, Research Scholar, Visvesvaraya National Institute of Technology, D.K. Agrawal, Dean, RTM Nagpur University, **India**

Domestic Solid Waste Quantity and Composition Analysis in Arada Sub-City, Addis Ababa, Yitayal Beyene Hailu, Environmentalist, Amhara Water Resources Development Bureau, Tenalem Ayenew, Prof. Hydrogeologist, Addis Ababa University, Prof. Kebed Faris, Advisor for Environmental Health, Amhara Health Bureau, Feleke Zewuge, **Ethiopia**

Using a GIS System in Natural Resources Management and Recycling of Solid Waste with Public Awareness in Marjeyoun, Jean Georges Chatila, Associate Professor and Chairperson, Lebanese American University, **Lebanon**

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

Comparative Implementation of RA 9003 of the Two Barangays in Davao City, Philippines, Maribel Rico-Blones, Methods Engineer, National Irrigation Administration, **Philippines**

A Study on Evaluation of Resident Preference of a General Waste Treatment Facility by Conjoint Analysis, Motoko Yamanari, Doctoral Course Student, Sohei Shimada, Associate Professor, The University of Tokyo, **Japan**

Public Involvement In Local Waste Management Strategy Development And Facility Planning: Exploring Opinions From Stakeholder Groups, Kenisha Garnett, PhD Researcher, Dr. Tim Cooper, Head, Centre for Sustainable Consumption, Dr. Mike Heath, Senior Lecturer, Geoff Cartwright, Sheffield Hallam University, **UK**

LiFE: An Educational Tool for a Clean Environment in Cities in Malaysia, Piakong Mohd. Tuah, Lecturer, Universiti Malaysia Sabah, **Malaysia**

SESSION 3B

Chemical and Biochemical Treatment

Effect Of Addition Activated Carbon During Copper Recovery From Printed Circuit Board By Thiobacillus Ferrooxidans, Zheng Zheng, Dean, Zhou Peiguo, Peng Xiaocheng, Zhao Guohua Luo Xingzhang, State

Key Laboratory of Pollution Control and Resources Reuse, Nanjing University, **P.R. China**

Modification of Pyrolytic Char Prepared From Waste Tires For Enhancing Contaminant Uptakes From Aqueous Solutions, Augustine Quek Tai Yong, PhD Candidate, Rajasekhar Balasubramanian, Associate Professor, National University of Singapore, **Singapore**

SESSION 3C *Electronic Wastes*

An Examination of the Environmental Impact of Electronic Waste Disposal, Ashraf Ghaly, Professor, Union College, **USA**

Electronic Waste in the Philippines: Status, 3R, Policy Issues, Damasa B. Magcale-Macandog, Associate Professor, University of the Philippines Los Baños, **Philippines**

Management Of Electric And Electronic Waste - The Portuguese Approach, Isabel Tomé de Andrade, Head of Department, Portuguese Environment Agency, **Portugal**

Conceptual Analysis Of Electronic Waste: Revisiting The Definition Of Waste And The Classes Of Wastes, Eva Pongrácz, Senior Researcher, Jenni Ylä-Mella, Researcher, Riitta Keiski, Professor, University of Oulu, **Finland**

SESSION 3D *Environmental Analysis*

Responses Of Fly Ash Incorporation As Soil Amendment On Heavy Metal Accumulation, Growth And Yield In Indian Spinach, Anurag Singh, M.Sc. Student, Rajesh Kr Sharma, Senior Research Fellow, Dr. S.B. Agrawal, Professor, Banaras Hindu University, **India**

Robust Control of Combustion Air Flows in a Dual-Chamber, Starved-Air Incinerator, Albert J. Liem, Manager, R&D, Anil Chhibber, Manager, Westland Environmental Services Inc, **Canada**

Use Of Biomass In The Light Of Co2 Emission And Sustainable Development, Tamas Dienes, PhD Candidate, Central European University, **Hungary**

The Trend And The Outline Of Solid Waste Technology In Japan-Introduction Of Technology And Operation Case-, Arihiro Okamoto, Manager, Teruaki Tsukamoto, Assistant Manager, Yoji Sato, General Manager, Takanobu Miyaki, Ebara Corporation, **Japan**

Microbiological Indicators of Well Water Pollution and the Probability of Cholera Outbreaks and other Diseases: The case of some Neighbourhoods in the City of Douala Cameroon, Epule Terence, Graduate Scholar, Lund University, **Sweden**, Balgah Sounders Nguh, Senior Lecturer, University of Buea, **Cameroon**

SESSION 3E *Kitchen and Organic Wastes*

Systems Analysis of Waste Management by Biogasification of Charged Kitchen Waste in Japan, Takeshi Sato, Master Student, Toru Furuichi, Professor, Noboru Tanikawa, Associate Professor, Kazuei Ishii, Hokkaido University, **Japan**

High Quality Organic Manure Generation From Solid Biodegradable Waste Using Nisargruna Technology, Mehetre Sayaji, Srivastava Manoj , Scientific Officers, Kale Sharad, Head, PRSS, Nuclear Agriculture and Biotechnology Division, Bhabha Atomic Research Center, **India**

Biochemical and Spatial Based Selection of Anaerobic Digestion Feedstock California and Washington Case Study, U. Zaher, Research Associate, T. Ewing, Research Assistant, S. Chen, Professor, Washington State University, **USA**

Studies in Boilers Based on Biomass Fuels Using CFD, S.K.Mohapatra, Prof. and Head, Mechanical Engineering Department, Thaper University, Ravi Inder Singh, Lecturer, Guru Nanak Dev Engineering College, Ludhiana, Dr. D.Gangacharyulu, Associate Professor, Thaper University, **India**

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

Break

4:10 p.m. – 6:00 p.m.

Sessions 4

SESSION 4A

Integrated MSW Management

Multi Criteria Decision Making For Regional Waste Management Systems Using Analytic Network Process, Naoki Sato, Master Student, Toru Furuichi, Professor, Kazuei Ishii, Assistant Professor, Noboru Tanikawa, Hokkaido University, **Japan**

Integrated Waste Management For The City Of Nashik In India, Shivkumar Vanjari, Student, Sham Asolekar, Head, Indian Institute of Technology, Bombay, **India**

Technique Of Municipal Waste Management In Port Harcourt, Rivers State, Nigeria, Awajioyak Anthony Ujile, Lecturer, Rivers State University Of Science & Tech., **Nigeria**

GIS and Solid Waste Management in Egypt, Dr.Manal El-Batran, Associate Professor, Housing & Building National researches Center, [HBRC], Dr. Laila Iskander, Managing Director, Community and Institutional Development, [CID] **Egypt**

Solid Waste Collection Optimization Using a Route Time Approach: A Case Study for an Urban Area of Mauritius., Mr. Gukhool Oomesh, Mphil/PhD Student, Dr. Bokhoree Chandradeo, Senior Lecturer, Prof. Mohee Romeela, Professor, University of Technology, **Mauritius**, Dr. Jamnejad Gholam, Senior Lecturer, Glasgow Caledonian University, **UK**

From One Day Events to Integrated Strategies..., Chace Anderson, Vice President, Gershman, Brickner, Bratton, Inc., Bruce J. Edmonds III, Recycling Operations Manager, Rivanna Solid Waste Authority, **USA**

SESSION 4C

Biochemical Topics

Modeling Thermal and Biological Behavior of Bioreactor Landfills in Stationary Conditions before Leachate Injection, Shabnam Gholamifard, PhD Candidate, CEMAGREF d'Antony, Robert Eymard, Professor, University of Marne-La-Vallée, Christian Duquennoi, PhD, CEMAGREF d'Antony, **France**

Phyto And Chemical Remediation Of Auto Battery Waste Contaminated Site, Mary Bosede Ogundiran,

Lecturer II, Oladele Osibanjo, Professor, University of Ibadan, **Nigeria**

SESSION 4D

Sludge

Sludge Drying In CO2 Heat Pump Dryer, Flaga-Maryańczyk Agnieszka, Assistant Lecturer, Schnotale Jacek, Professor, Cracow University of Technology, **Poland**

Bioleaching of Metals from Aerobic and Anaerobic Sewage Sludges, Ashish Pathak, Research Scholar, M. G. Dastidar, T.R. Sreekrishnan, Professors, Indian Institute Of Technology, Delhi, **India**

Assessment of Toxic Effect of Pollutant Associated with Dry Sewage Sludge, Dr. Saleh Mohammed Al-Muzaini, President of the Trustee of Board for Euro-Arab, **Kuwait**

SESSION 4E

Workshop on Sponge Iron Plants

A Community Livelihoods-Enterprise Approach in Managing Industrial Waste with Private Sector, P.S. Sodhi, National Coordinator, UNDP GEF Small Grants Programme, D.P. Rath, Programme Coordinator, Centre for Environment Education, S.R. Mania, Secretary, Research Analysis & Consultant, N.K. Das, **India**

SESSION 4F

Waste Utilization in Paving

Use Of Raw Chat In Hma Surface: Environmental And Engineering Characterization, Nazimuddin M. Wasiuddin, Assistant Professor of Civil Engineering, Louisiana Tech University, Musharraf M. Zaman, David Ross Boyd, Professor, Aaron Alexander, Professor, Associate Dean for Research, Robert W. Nairn, Associate Professor, University of Oklahoma, Wamiq B. Hamid, **USA**

Environmental and Mechanical Attributes of Pervious Rubberized Concrete, Ashraf Ghaly, Professor, Andrew Heiser, Student, Union College, **USA**

Application of CFB Fly Ash for High Traffic Volume Pavement's Base, Shih-Huang Chen, Assistant Professor, Department of Traffic and Transportation Engineering, Feng-Chia University, Jyh-Dong Lin, Professor, Jui-Mao Wang, Ph.D. Candidate, National Central University, **Taiwan**

Utilization of Incinerator Bottom Ash into Pavement, Jyh-Dong Lin, Professor, Po-Hsun Sung, Ph.D. Candidate, National Central University, Shih-Huang Chen, Assistant Professor, Department of Traffic and Transportation Engineering, Feng-Chia University, **Taiwan**

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

POSTER SESSION 1

Decomposition Of Maize Straw For Production Of Glucose And Lactic Acid In Sub-Critical Water, Kong Lingzhao, Ph D Candidator , Li Guangming, Prof., Wang Hua, Ph D, He Wenzhi, Hu Huikang, Xu Jingcheng, Ling Fang, Huang Juwen, State Key Lab of Pollution Control and Resource Reuse, Tongji University, **China**

Heavy Metal Concentrations in Different Kinds of Finnish Fly Ash and Bottom Ash with Respect to The New Limit Values for Materials Used As an Earth Construction Agent", Mr. Risto Pöykiö, Environmental Protection Manager, The Environmental Research Division, City Hall, Kemi, Mr. Toivo Kuokkanen, Docent, University of Oulu, Mr. Hannu Nurmesniemi, Docent, Stora Enso Oyj, Veitsiluoto Mill, Mr. Kauko Kujala, Docent, University of Oulu, Ms. Riitta Liisa Keiski, University of Oulu, **Finland**

Future Building Blocks - Energy Efficient Concrete with Class F Fly Ash, M.-I. M. Chou, Professional Scientist/Adjunct Professor, University of Illinois, , S.-F. J. Chou, Sr. Scientist, SMC Environtech Inc., Lu-Ming Chen, Ph.D. Graduate Student, University of Illinois, , **USA**

Bioremediation of Contaminated Sites in the Chilean Patagonia: A Complex Project Management Case Study, Eduardo Ordóñez-Ponce, Project Manager, Juan R. Candia, Programme Director, Fundación Chile, **Chile**

Construction and Operation Commissioning of the Mechanical Biological Treatment Plant (MBT) Kahlenberg – Results of A Monitoring Research Project Which Is Promoted By The EC, Prof. Dr. Gerhard Rettenberger, Senior Consultant, Ingenieurgruppe RUK, **Germany**

The Study Of Environmental Impacts For End-Of-Life Vehicles In Taiwan, Sheng-Lung Lin, Assistant Professor, Chi-Hsieh Huang, Chao-na Wu, Graduate Students, Chun-Hao Huang, Chaoyang University of Technology, **Taiwan (R.O.C.)**

Removal of Heavy Metals from Laboratory Wasteliquid by the Ferrite Process at Different Reaction Temperature, Yuh-Jeen Huang, Assistant Professor, Chiu-Hui Tu, Lecturer, Chuan-Lun Lin, Ph.D. Student, National Tsing Hua University, **Taiwan**

Separation of PET and PVC from Drop-off Points Packaging Wastes by Froth Flotation, João Tiago Santos, Fellowship, Maria Teresa Carvalho, Assistant Professor, Célia Ferreira, Fellowship, Instituto Superior Técnico, **Portugal**

Utilization of Paper Mill Sludge as a Landfill Hydraulic Barrier Material in Finland, Mr. Risto Pöykiö, Environmental Protection Manager, The Environmental Research Division, City Hall, Kemi, Mr. Kauko Kujala, Mr. Toivo Kuokkanen, Docents, University of Oulu, Mr. Hannu Nurmesniemi, Docent, Stora Enso Oyj, Veitsiluoto Mill, Mr. Matti Kuokkanen, M.Sc., University Of Oulu, **Finland**

A study on the Operating Model for Treating the Flammable and Harmful Wastes in Cement Kiln, Wenqiang Xiong , Professor, Chongqing University, Min Xiong, Lecture(Student), working at Chongqing University(China) and now doing PhD degree at Ecole centrale de Nantes (France), **China**

Energy Cell Technology For LFG Collection And Utilization, Ritma Dubrovskā, Project Manager, Maris Grinfelds, Production Manager, "Liepajas RAS" Ltd, **Latvia**

Application of Autoclaves in the Treatment of Medical Waste, Ira Salkin, Principal, Information from Science, Timothy Barrett, VP Engineering, OnSite Sterilization, LLC, Edward Krisiunas, Principal, Waste Not Want Not International, Shawn Doyle, Paul Warden, **USA**

Robust Control of Combustion Air Flows in a Dual-Chamber, Starved-Air Incinerator, Albert J. Liem, Manager, R&D, Anil Chhibber, Manager, Westland Environmental Services Inc, **Canada**

Strategies for Developing a Financially Self-Sustaining Rural Recycling Program, Dr. Alfred H. Stiller, Board of Directors, Hayward Helmick, Board of Directors, Dr. Robert McConnell, Board of Directors, Laura Stiller, Monongalia County Solid Waste Authority, **USA**

Recovery of Copper from the Acid-Leachate of Printed Circuit Boards by Electrolysis Process, Yi-Chieh Lai, Ph.D. candidate, Wen-Jhy Lee, Professor, Kuo-Lin Huang, Associate Professor, National Cheng Kung University, **Taiwan**

Making Belite-Rich Cement Clinkers with Industrial Inorganic Sludges, Ying-Liang Chen, PhD Student, Juu-En Chang, Professor, Pai-Haung Shih, Associate Professor, Li-Choung Chiang, National Cheng Kung University, **Taiwan (R.O.C.)**

High Quality Organic Manure Generation From Solid Biodegradable Waste Using Nisargruna Technology, Mehetre Sayaji, Srivastava Manoj, Scientific Officers, Kale Sharad, Head, PRSS, Nuclear Agriculture and Biotechnology Division, Bhabha Atomic Research Center, **India**

A Community Livelihoods-Enterprise Approach in Managing Industrial Waste with Private Sector, P.S. Sodhi, National Coordinator, UNDP GEF Small Grants Programme, D.P. Rath, Programme Coordinator, Centre for Environment Education, S.R. Mania, Secretary, Research Analysis & Consultant, N.K. Das, **India**

A Study on Mechanical Properties of Building Material Using Recycled Sewage Sludge Ash, Jea-ik Lee, Research, Korea Institute of Construction Technology, Byung-Wan Jo, Professor, Hanyang University, Yeong-Seok Yoo, Senior Research Engineer, Korea Institute of Construction Technology, Kyeong Ho Cheon, **Republic of Korea**

Software Tool For Designing, Optimising And Managing Household Waste Collection Services, Elodie Dubois, Business Expert, Olivier Trullier, Optimization Business Unit Manager, MASA Group, **France**

Domestic Solid Waste Quantity and Composition Analysis in Arada Sub-City, Addis Ababa, Yitayal Beyene Hailu, Environmentalist, Amhara Water Resources Development Bureau, Tenalem Ayenew, Prof. Hydrogeologist, Addis Ababa University, Prof. Kebed Faris, Advisor for Environmental Health, Amhara Health Bureau, Feleke Zewuge, **Ethiopia**

Manufacture of Bioethanol from Fruit and Vegetable Waste, S.A.S. Perera, Senior Lecturer, M.A.S. Perera, Chemical Engineer, D.C.G. Mahawatte, R.M.C.G. Ratnasinghe, S.G. Walliwala, K.W.C. Mahesh, D.H.N. Perera, Department of Chemical and Process Engineering, University of Moratuwa, **Sri Lanka**

Wastepaper Sludge Used as Raw Material of Construction Products, Ruby Mejia de Gutierrez, Director of Composites Materials Group, Hector F. Bocanegra, Engineering Student, Javier D. Medina, Marisol Gordillo, Universidad del Valle, **Colombia**

Long-term Effects of Soil Pollution Near an Aluminium Smelter on Microbial Biomass, Soil Respiration and Enzyme Activities, J. C. Garcia-Gil, Post-Doc Student, A. Polo, Professor Researcher, Center for Environmental Sciences, **Spain**, J. Kobza, Professor, Soil Science and Conservation Research Institute, **Slovakia**

Laboratory Waste Management: New Approaches and Environmental Sustainability, Marisa Borges, Doctor Degree Student, Federal University of Parana - Brazil, **Brazil**

TUESDAY, APRIL 1

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

Policy

Evaluation Of Coal Combustion Technologies For Electricity Generation Using A Multi - Criteria Analysis Approach, Artemis Aliverti, Post Graduate Student (Ph.D.), Achilleas Papadopoulos, Researcher (Dr.), Maria Loizidou, Professor, National Technical University of Athens, **Greece**

Use What You Have: Strategies for Developing a Hybrid Marketing Approach, Barbara L. MacLennan, M.S.J, M.A., Public Outreach Coordinator, Dr. Robert L. McConnell, MCSWA Board Member, Monongalia County Solid Waste Authority, Hye Yoon Jung, Ed. D, Instructional Designer, Florida State University, Dan Sanschagrin, Operations Manager, **USA**

Ecological Solid Waste Management Evaluation Instrument: A Standard Guide To Determine SWM Effectiveness At Barangay 9-A, Davao City, Philippines, Dr. Albert B. Jubilo, College Professor, Ateneo De Davao University, Engr. Lilia F. Panchito, Engr. Angelita G. Fernandez, Professors, University of Mindanao, Mr. Arnel Francis V. Morales, **Philippines**

Construction and Management Planning of Municipal Facility for Hazardous Waste Recycling and Recovery in China, Jinhui Li, Executive Secretary, Basel Convention Coordinating Center for Asia and the Pacific, Professor, Ying Chen, Department of Environmental Science and Engineering, Tsinghua University, **P. R. China**

Alternative Models To Municipal Solid Waste Management Practices, P.S. Sodhi, National Coordinator, UNDP GEF Small Grants Programme, Centre for Environment Education, **India**

Development of Recycling Green Building Material Evaluation and Labeling System in Taiwan, Jyh-Tyng Yau, Researcher, Shih-chi Lo, Researcher, Architecture and Building Research Institute, Ministry of the Interior, Jyh-Dong Lin, Professor, National Central University, **Taiwan**

SESSION 5B

Composting Technology

Daily Key Household Waste Substrates From Sri Lanka Effectively Convert To Mass Production Of Beauveria Bassiana, Thurkathipana Navaneethan, Student, University of Gent, **Belgium**, Dr.Gunasingam Mikunthan, Senior Lecturer and Head, University of Jaffna, **Sri Lanka**

Effect Of Temperature On Mesophilic Composting, M.Hamoda, Professor, Kuwait University, College for Women, **Kuwait**, A.Saleh, Engineer, Al-Awir WWTP, Dubai Municipality, **United Arab Emirates**

Development Of Inoculum Using A Consortium Of Isolated Geobacillus Strains For Enhancing Biodegradation, Sutripta Sarkar, Senior Research Fellow, Sunanda Chanda, Professor, Indian Statistical Institute, Subrata Pal, Professor and Dean, Faculty of Science, Jadavpur University, **India**

Dealing With Air Emissions From Municipal Waste Handling & Processing Facilities With Consideration To System Performance And Energy Consumption, John Paul Phillips, Head of Air & Water Solutions, Bord na Móna Environmental Ltd, **Ireland**

Oxic and Anoxic Thermophilic Biotechnological Treatments of Solid Food Waste for Value Added Products Retrieval: Recent Progress, S.N.Mukhopadhyay, Professor, I.I.T Dehli, **India**

Integrated Modeling Tool to Optimize Co-digestion of Solid Wastes, U. Zaher, Research Associate, Washington State University, **USA**, P. Buffiere, Professor, Laboratory for Civil and Environmental Engineering, J.-P. Steyer, Professor, Laboratoire de Biotechnologie de l'Environnement, **France**

Experimental Investigation of Anaerobic Digestion of Solid Waste, Jean Georges Chatila, Associate Professor and Chairperson, Lebanese American University, **Lebanon**

SESSION 5C
Management of Special Wastes

"Proper" Disposal Of Pharmaceuticals: What Solid Waste Managers Should Know, Thomas F Vandenburg, Partner, Dongell Lawrence Finney LLP, **USA**

Analysis Of Acid Tars: Composition, Environmental Implications, And Possible Management Methods, Sunday Augustine Leonard, PhD Student, University College London, **UK**

The Effect Of Domestic Hazardous Waste In The Municipal Solid Waste Anaerobic Degradation, Márquez-Benavides, L., Sánchez-Yáñez, J.M., Professors, Hernández-Berriel, Ma.C., Student PhD, Orantes-Avalos, J.C., Buenrostro-Delgado O., IIAF de la Universidad Michoacana de San Nicolás de Hidalgo, **México**

Laboratory Hazardous Waste Management-A Chemical Engineering Case Study, Hanan El-Sersy, Associate Professor, M.H. Sayed, Associate Professor, H. Sibak, Professor, S.T. El Sheltawy, Chemical Engineering Department-Cairo University, **Egypt**

Fridge Recycling - Can it be done without Endangering the Environment, Dipl. Ing. Christoph Becker, Secretary, RAL Quality Assurance Association for Fridge Recycling, **Luxembourg**

Laboratory Waste Management: New Approaches and Environmental Sustainability, Marisa Borges, Doctor Degree Student, Federal University of Parana - Brazil, **Brazil**

SESSION 5D
Landfill Gas and Liners

Energy Cell Technology For LFG Collection And Utilization, Ritma Dubrovskā, Project Manager, Maris Grinfelds, Production Manager, "Liepajas RAS" Ltd, **Latvia**

Methodology for estimating the methane potential of a closed landfill, Dr Joseph C. Akunna, Senior Lecturer, Mr Kazi Hasan, Research Assistant, Urban Water Technology Centre, University of Abertay Dundee, Mr Kenneth Kerr, Engineering Services Manager, Waste Management Department, Dundee City Council, **UK**

Gas Recovery and Solidification of Waste within Closed Landfills in the State of Kuwait. Mohammad AbdulRahman Al-Sarawi, Associate Professor, Department of Earth and Environmental Sciences, Kuwait University, Nasser Al-Shaiji, Department of Environment, Kuwait Municipality, Waleed Al-Qimlass, Wataniya Environmental Services Co., **Kuwait**

Utility of Solid Waste as BioGas and Allied Source of Energy, A.P. Verma, University Professor, Uma K.Verma, Lecturer, Magadh University, **India**

Realizing Opportunities from Landfill Greenhouse Gas Reduction Projects, Christina M. Magerkurth, PE, Manager of Midwest Operations, B. Tod Delaney, PE, PhD, DEE, President, First Environment, Inc., **USA**

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

Break

10:45 a.m. – 12:30 a.m.

Sessions 6

SESSION 6A

Agricultural Wastes Utilization

Slaughterhouse Waste Management Study in Urban Area, Mervat El-Hoz, Assistant Professor, University of Balamand, **Lebanon**

Prediction Model of River and Groundwater Contamination Caused by Livestock Manure in a River Basin, Kazuei Ishii, Assistant Professor, Toru Furuichi, Professor, Noboru Tanikawa, Associate Professor, Hokkaido University, **Japan**

Agricultural Waste Utilization Through Value Addition Of Apple Pomace, Anupama Singh, Senior Research Officer, B.K Kumbhar, Professor, Hryidesh Pandey, Junior Research Officer, G.B.P.U of Ag & Tech, **India**

The Effect of Softwood Bedding on Anaerobic Digestion of Equine Waste, Brian Wartell, Graduate Student/Assistant, Donna E.Fennell, Ph.D., Valdis Krumins, Asst. Professors, Rutgers University, **USA**

Collagen Technology Update, Shanu A Shah, Graduate & Research Assistant, Widener University, **USA**

Sustainable Agriculture Through Delta-D Technology A Solution To Organic Solid Waste and Global Warming, S.A.S. Perera, Senior Lecturer, Department of Chemical and Process Engineering, University of Moratuwa, **Sri Lanka**

SESSION 6C

Health Care Wastes I

Healthcare Waste Management Issues in Bangladesh, M. Habibur Rahman, Professor, Bangladesh University of Engineering & Technology (BUET), M. Ashrafur Rahman, Lecturer, Stamford University Bangladesh (SUB), **Bangladesh**, Masum Ahmed Patwary, Ph. D Student, University of Teeside, **UK**

Application of Autoclaves in the Treatment of Medical Waste, Ira Salkin, Principal, Information from Science, Timothy Barrett, VP Engineering, OnSite Sterilization, LLC, Edward Krisiunas, Principal, Waste Not Want Not International, Shawn Doyle, Paul Warden, **USA**

Understanding the Barriers to Effective Hospital Waste Management in India, Mohd Nishat Faisal, Senior Lecturer, Sheeba Khan Nishat, Doctoral Candidate, Aligarh Muslim University, **India**

A Review Of Medical Waste Facilities In Nigerian Public Hospitals, Abimbola Olanrewaju Tofowomo, Deputy Director, Ministry Of Lands,Housing And Environment,Akure,Nigeria, Olusegun Adejayan, Estate Manager, Ondo State Development And Property Corporation, **Nigeria**

SESSION 6D

Mining and Metal Works Wastes

Drying and Oxidation During Surface Disposal of Paste Tailings, Rachel Bryan, MASc Candidate, Paul Simms, Assistant Professor, Carleton University, **Canada**

Coal Waste Management by Agglomeration of Coal Fines Using Non-edible Vegetable Oils, G. H. V. C. Chary, Research Scholar, M. G. Dastidar, Professor, Indian Institute Of Technology, **India**

Implementing Risk Assessment in Mine Reclamation, Ladan Mohammadi, PhD Student, John A. Meech, Professor of Mining Engineering and Director of CERM3, University of British Columbia, **Canada**

Filtration Characteristics of Metal Hydroxide Sludges Produced by the High Density Sludge Process, C. J. Bullen, Imtech Process, A. J. Griffiths, Keith Williams, Cardiff University - School of Engineering, **United Kingdom**

SESSION 6E

Use of Wastes in Construction 2

Carbonation Behavior of Mortar Produced by Alkali-Activation of a Granulated Blast Furnace Slag, Susan Bernal, Doctoral Student, Erich Rodriguez, Master Student, Ruby Mejia de Gutierrez, Director of Composites Materials Group, Universidad del Valle, **Colombia**

Behaviour at Elevated Temperatures of a Sustainable Cement, Erich Rodriguez, Master Student, Susan Bernal, Doctoral Student, Ruby Mejia de Gutierrez, Director of Composites Materials Group, Universidad del Valle, **Colombia**

Effect of Over Consolidation Ratio on Shear Strength Behavior of Fly Ash, Sarvesh Chandra, Professor, Pawan Kumar Singh, Former Graduate Student, Anubhav, Doctoral Research Scholar, IIT Kanpur, **India**

Industrial Solid Wastes Recycling Potentials in Construction Materials, Asokan Pappu, Post Doctoral Research Associate, Mohamed Osmani, Lecturer, Andrew Price, Director for Postgraduate Studies and Professor of Project Management, Loughborough University, **UK**

Control of Soil Swelling Pressure Using Iron Filling and Iron Filling Cement-Mixture, Mousa Attom, Associate Professor, Magdi El-Emam, Assistant Professor, American University of Sharjah, **United Arab Emirates**

12:30 p.m. – 1:30 p.m.
Poster Session 2

POSTER SESSION 2

Use What You Have: Strategies for Developing a Hybrid Marketing Approach, Barbara L. MacLennan, M.S.J, M.A., Public Outreach Coordinator, Dr. Robert L. McConnell, MCSWA Board Member, Monongalia County Solid Waste Authority, Hye Yoon Jung, Ed. D, Instructional Designer, Florida State University, Dan Sanschagrín, Operations Manager, **USA**

Use Of Waste From Waste-Water Treatment In Production Of Fuels For Thermal Treatment Processes, Malgorzata Wzorek, Assistant Professor, Leon Troniewski, Professor, Opole University of Technology, **Poland**

MERCURY IN ALTERNATIVE FUELS The Quality Assessment Adopted By Pirelli In Its High Quality SRF Production Plant, Luca Zucchelli, Head of R & D Department, Carlo Zanotta, Chief Operations Officer, Andrea Airaghi, Pirelli Ambiente Renewable Energy S.p.A., **Italy**

The Effect of Softwood Bedding on Anaerobic Digestion of Equine Waste, Brian Wartell, Graduate Student/Assistant, Donna E.Fennell, Ph.D., Valdis Kruminis, Asst. Professors, Rutgers University, **USA**

Alternative Models To Municipal Solid Waste Management Practices, P.S. Sodhi, National Coordinator, UNDP GEF Small Grants Programme, Centre for Environment Education, **India**

A Review Of Medical Waste Facilities In Nigerian Public Hospitals, Abimbola Olanrewaju Tofowomo, Deputy Director, Ministry Of Lands, Housing And Environment, Akure, Nigeria, Olusegun Adejayan, Estate Manager, Ondo State Development And Property Corporation, **Nigeria**

Modeling Thermal and Biological Behavior of Bioreactor Landfills in Stationary Conditions before Leachate Injection, Shabnam Gholamifard, PhD Candidate, CEMAGREF d'Antony, Robert Eymard, Professor, University of Marne-La-Vallée, Christian Duquennoi, PhD, CEMAGREF d'Antony, **France**

Comparative Implementation of RA 9003 of the Two Barangays in Davao City, Philippines, Maribel Rico-Blones, Methods Engineer, National Irrigation Administration, **Philippines**

Towards the Improvement of Recycling Program in Malaysia: A Case Study, Izan Jaafar, Lecturer, Wan Nur Amira Wan Jantan, Postgraduate Student, Universiti Malaysia Terengganu, **Malaysia**

The Benefits of RecycleBank: A Recycling Rewards Company, Ron Gonen, Co-Founder and CEO, RecycleBank, **USA**

Mountaineers Recycle, Barbara Angeletti, Recycling Coordinator, West Virginia University, Laura Stiller, Solid Waste Authority Office Manager, Monongalia Co. SWA, Greg Adolfsen, Public Outreach Specialist, WV Dept. of Environmental Protection, **USA**

Study On Reutilization Of Aquatic Plant Remains From Made-Wetland For Pollution Control Of Lake, Deng Futang, PhD, Board Chairman, Sun Peishi, Professor, Institute of Environment and Lakes, Yunnan University/Yunnan Kingyear Ecological Construction Group, Deng Fushang, General Manager, Yunnan Kingyear Ecological Construction Group, Kunming, QingXiaoyan, Yao Yong, Xu Shaowu, Bi Xianshuang, **China**

Using Supercritical Fluid Extraction to Remove Heavy Metals from EAF Dust in Steelmaking Industry, Chin-Tsun Hsieh, Graduate Student, Min-Hsin Liu, Huang-Mu Lo, Associate Professors, Chaoyang University of Technology, **Taiwan**

Using Supercritical Fluid Extraction to Remove Pyrene from EAF Dust in Steelmaking Industry, Li-Ming Sun, Graduate Student, Min-Hsin Liu, Huang-Mu Lo, Associate Professors, Chaoyang University of Technology, **Taiwan**

Influence Of Sulfate On MSWI Ash For Cement Sintering, Pai-Haung Shih, Li-Choung Chiang, Associate Professors, Yi-Kuo Chang, Assistant Professor, Meng-Han Tsai, Fooyin University, **Taiwan**

Recycling of Fine Material with High Water Content, Antonio D' Andrea, Associate Professor, Mirella Maria Villani, PhD, Università degli Studi "La Sapienza" di Roma, **Italy**

The Effect Of Selected Metals On MSW Anaerobic Digestion, Huang-Mu Lo, Min-Hsin Liu, Associate Professors, Kung-Chung Wu, Graduate Student, Kuo-Ching Lin, Tonni Agustiono Kurniawan, Chaoyang University of Technology, **Taiwan (R.O.C.)**

Liquid Crystal Displays: Material Content and Recycling Practices, Jenni Ylä-Mella, Researcher, Eva Pongrácz, Senior Researcher, Riitta L. Keiski, University of Oulu, **Finland**

Sustainable Agriculture Through Delta-D Technology A Solution To Organic Solid Waste and Global Warming, S.A.S. Perera, Senior Lecturer, Department of Chemical and Process Engineering, University of Moratuwa, **Sri Lanka**

The Effect of dichloromethane on Methane Oxidation in Landfill Cover System, Muna Albanna, Ph.D.

Candidate, P.Eng., Leta Fernandes, Professor, P.Eng., University of Ottawa, Mostafa Warith, Professor, P.Eng., Ryerson University, **Canada**

The Use of Sulfur By-Product Material as Fine Aggregate Substitute in Concrete Mixes, Khalid M. Yousri, Associate Professor, Housing & Building National Research Center, **Egypt**

1:30 p.m. – 2:30 p.m.

Luncheon

McGraw-Hill textbook drawing

2:30 p.m. – 4:15 p.m.

Sessions 7

SESSION 7A

Landfill and Leachate

Landfills and Nigeria: A Case Study of Lagos, AbdulKhalid Ali Baba, Head of Operations, Ameena Alatishe, Environmental Analyst, Rudia Waste Management Solutions, **Nigeria**

Municipal Solid Waste Anaerobic Degradation Under Two Different Leachate Recycling Regimes, Hernández-Berriel, Ma.C., Student PhD, Márquez-Benavides, L., Professor, Mañón-Salas, Ma.C., Student PhD, IIAF de la Universidad Michoacana de San Nicolás de Hidalgo, Buenrostro-Delgado O., Alfaro-Cuevas-Villanueva, R., **México**

Monitoring System Design for Evapotranspiration Cover Trial of Municipal Waste- A Case Study of Morwell Landfill, Liam Cox, Design Engineer, Latrobe City Council, Dilip Nag, Senior Lecturer, Monash University, **Australia**

Design of Landfill for Laboratory Hazardous Waste - Case Study, Hanan El-Sersy, Associate Professor, M.H. Sayed, Associate Professor, H. Sibak, Professor, S.T. El Sheltawy, Chemical Engineering Department-Cairo University, **Egypt**

Rehabilitation of Al-Qurain Landfill, Eng. Mohammed M. Alenezi, Head of Engineering Department, Eng. Farahat Mahrous, consultant, EPA, Dr. Mohammed Alsarawi, Kuwait University, **Kuwait**

SESSION 7B

Composting Applications

The applicability of community-based composting in Ho Chi Minh City, Vietnam, Dave Faris Yousif, Masters Student, Steffanie Scott, Department of Geography, University of Waterloo, **Canada**

A Lumped Parameter Model Of Closed System Composting, P. V. Ramasamy, Research Student, Dr. C. Bokhoree, Senior lecturer, Prof. R. Mohee, Professor, Dr. G. Jamnejad, University of Technology, **Mauritius**

Vermicomposting: Organic Waste Management for Societal Development, Pushpalata Dubey, Ph.D., Associate Professor, Bhagalpur University, **India**, Hemant K. Tewary, Ph.D, Exec. M.B.A., Novartis Corporation, **USA**

SESSION 7C

Developing Regions Case Studies 1

Food For Waste Collection And Disposal: A Contingency Polythene Waste Management Approach, Amam William Ikechukwu, Managing Director/Chief Executive Officer, PhD Research Student, University Of Bradford, **UK**, Bishop Dr Okorie Kenneth, President, International School Of Theology And Philosophy, Uzochukwu Ene, Managing Director And Chief Executive Officer, Apple Computer World, **Nigeria**

Impact of Auto Battery Waste on the Environment: A Case Study from a Developing Country, Mary Bosede Ogundiran, Lecturer II, Oladele Osibanjo, Professor, University of Ibadan, **Nigeria**

SESSION 7D

Industrial Wastes

Co-Combustion Of Wood Chips With The Biomass Obtained From The Physico-Chemical Treatment Of Slaughterhouse Wastewater For Steam Generation - A Case Study, Elaine Virmond, Silvia Layara Floriani, Ph.D. Students, Humberto Jorge José, Professor, Regina de Fátima Peralta Muniz Moreira, Federal University of Santa Catarina, **Brazil**

Recovery Of Chromium From Stainless Steel Dust, Dr Sanjay Prasad, Dr B.D.Pandey, Scientists, Prof.S.P.Mehrotra, Director, NML, **India**

Influence of Admixtures on Paste Behaviour and the Role of Surface Area on Remobilisation, Jabulani S. Mahlaba, P.C. Pretorius, Environmental Scientists, M.P. Augustyn, Environmental Science & Technology Manager, SASOL Technology R&D, **South Africa**

Utilization Of Thermally Treated Flue Gas Desulphurization Gypsum In Cement And Concrete, Xiao-lu Guo, PhD Candidate, Hui-Sheng Shi, PhD and Prof., Tongji University, **China**

Process Development for the Recovery of PGMs from Catalytic Converters, Attasak Jaree, Assistant Professor, Nahatai Chaikla, Graduate Student, Thumrongrut Mungcharoen, Associate Professor, Faculty of Engineering, Kasetsart University, **Thailand**

Perspective on Synergy of Chemicals and Hazardous Waste Management, Jinhui Li, Prof., Tsinghua University, Nana Zhao, Basel Convention Coordinating Center for Asia and the Pacific, Ying Chen, Tsinghua University, **China**

SESSION 7E

Recycling 2

Reusing PET Soft Beverages Bottles Improves Health Conditions in Rural Communities in Norte de Santander (Colombia), Carmen Leonor Barajas Forero, Titular Professor, Universidad Francisco de Paula Santander, **Colombia**

Developing Appropriate Process Equipment for the Energetic and Material Recovery of Municipal Solid Waste and Agricultural Residues, Moussa Dogo Ali, Researcher, Managing-Director, Gestion et Valorisation des Déchets GVDsa, Sani Mahaman Laouali, Researcher, Université Abdoumoumouni Djoffo Niamey, **Niger Republic**

Mountaineers Recycle, Barbara Angeletti, Recycling Coordinator, West Virginia University, Laura Stiller, Solid Waste Authority Office Manager, Monongalia Co. SWA, Greg Adolfsen, Public Outreach Specialist, WV Dept. of Environmental Protection, **USA**

The Benefits of RecycleBank: A Recycling Rewards Company, Ron Gonen, Co-Founder and CEO, RecycleBank, **USA**

Handling Leachate from Glass Cullet Stockpiles, Ching-Ling Tsai, PhD Student, Uta Krogmann, Associate Professor, Peter F. Strom, Professor, Rutgers, The State University, **USA**

The Ongoing Debate Over Single Stream Recycling, Daniel Lantz, Business Unit Leader, GENIVAR Ontario Inc., **Canada**

4:15 p.m. – 4:30 p.m.

Break

4:30 p.m. – 6:20 p.m.

Sessions 8

SESSION 8A

Innovative Technologies

Phytoremediation using Lemna Minor for Removal of Lead (Pb) from Wastewater, Leela Kaur, Kasturi Gadgil, Professor, Centre for Energy Studies, Indian Institute of Technology, Satyawati Sharma, Centre for Rural Development & Technology, IIT Delhi, **India**

Application of Remote Sensing and GIS Techniques For Disposal Of Waste, Dr.B.K.Singh, Reader in Applied Geology, , Government Engineering College, **India**

Study On Reutilization Of Aquatic Plant Remains From Made-Wetland For Pollution Control Of Lake, Deng Futang, PhD, Board Chairman, Sun Peishi, Professor, Institute of Environment and Lakes, Yunnan University/Yunnan Kingyear Ecological Construction Group, Deng Fushang, General Manager, Yunnan Kingyear Ecological Construction Group, Kunming, QingXiaoyan, YaoYong, XuShaowu, BiXianshuang , **China**

Using Ultrasonication for Fast Production of Biodiesel from Waste Vegetable Oil in Egypt, S.T.El Sheltawy, Professor, A.A.Refaat, Teaching Assistant & Researcher, Cairo University, **Egypt**

Application Of Coal Combustion And Marble Processing Residues For Immobilisation And Recycling Of Hazardous Jarosite Waste, Asokan Pappu, Post Doctoral Research Associate, Loughborough University, **UK**, Dr. Mohini Saxena, Scientist and Dy Director, Advanced Materials and Process Research Institute (AMPRI), Shyam R. Asolekar, Professor and Head, Indian Institute of Technology Bombay, **India**

Fly Ash : A Wonderful Material to Increase the Agricultural Productivity, Dr. Mohini Saxena, Scientist and Dy Director, S. Murali, Scientist, Advanced Materials and Process Research Institute, **India**, Asokan Pappu, Post Doctoral Research Associate, Loughborough University, **UK**

Utilization of Waste Weed as an Adsorbent for the Removal of Basic De from Aqueous Solution, Dr. Sulochana Nagarajan, Professor & Head, Balasubramanian Natarajan, Research Scholar, National Institute of Technology, **India**

SESSION 8B

Use of Wastes in Construction 2

An Overview of the Utilization of Municipal Solid Waste Ash in Cement Concrete, Ritu Gupta, Reader,

Panjab University, Rafat Siddique, Professor, Thapar University, **India**

Recycling of Fine Material with High Water Content, Antonio D' Andrea, Associate Professor, Mirella Maria Villani, PhD, Università degli Studi "La Sapienza" di Roma, **Italy**

Utilization of Cut Oil Based Mud in the Production of Blended Portland Cement, Tarek Amin Osman, Associate Professor, Ezzat Mohamed Ali El Shimy, Hassan Hassan Assal, Professors, Housing & Building National Research Center, **Egypt**

Potential of Waste Gypsum in Making Value-Added Building Materials, Dr. Manjit Singh Scientist 'G' & Head, Dr. Mridul Garg, Scientist E-II, CBRI, Roorkee (India), **India**

Characterization and Some Possible Uses of Waste Marble Dust, Hanan El-Sersy, Associate Professor, M. Abadir, Professor, W.A. Ahmed, O.A. Ibrahim, Chemical Engineering Department - Cairo University, **Egypt**

An Experimental Investigation on the Suitability of Coarse Recycled Aggregate for High Strength Concrete, Salah R. Sarhat, Former Lecturer - Graduate Student, Carleton University, **Canada**

SESSION 8C

Health Care Wastes 2

The Solid Waste Analysis and Minimization Research Project: A Joint Effort between Government, College, and Industry, Matthew Franchetti, Assistant Professor and Director of the Environmentally Conscious Design and Manufacturing Lab, The University of Toledo, **USA**

Lean Manufacturing as a Stepping Stone into Green Engineering, Kyle Bedal, Student, Matthew Franchetti, Assistant Professor and Director of the Environmentally Conscious Design and Manufacturing Lab, The University of Toledo, **USA**

SESSION 8D

Developing Regions Case Studies 2

Investigation of Industrial Hazardous Wastes: a Case Study of Fars Province in Iran, N. Talebbeydokhti, Professor of Civil Engineering, Shiraz University, P. Amirian, MS Graduate, I. Homayoonnezhad, MS Graduate, Environmental Research and Sustainable Development Center, **Iran**

Sustainability in Solid Waste Management in Guwahati City, Assam, India, Dr. Hari Prasad Sarma, Reader, Gauhati University, **India**

Systematic Planning for Waste Removal from Illegal Dumping Sites, Abia Kenechukwu Francis Celestine Anigbo, Lecturer, Celestine Anigbo, Lecturer, Department of Urban and Regional Planning University of Nigeria Enugu Campus, **Nigeria**

6:30 p.m. – 7:30 p.m.

Cocktail Reception

WEDNESDAY APRIL 2

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

MSW Transfer and Biosolids Management

The Delaware Solid Waste Authority's (DSWA) Pine Tree Corners Transfer Station - a multi-building aesthetically and technically state-of-the-art 300 ton/day MSW transfer station. http://www.dswa.com/facilities_transfer.asp#Pine_Tree_Corners

and

Philadelphia Biosolids Management Facility.

http://www.phila.gov/water/biosolid_recycle_cen.html

FIELD TRIP 2

Landfill and Waste-To-Energy

Wheelabrator Falls, a state-of-the-art waste-to-energy facility in Falls Township, Pennsylvania, provides dependable, environmentally safe disposal of municipal solid waste for eastern Pennsylvania while generating clean electricity for sale to the local utility. The facility processes up to 1500 tons of non-hazardous municipal solid waste into electricity every day.

<http://www.wheelabratortechnologies.com/WTI/CEP/falls.asp>

and

Waste Management GROWS landfill, one of the largest private landfills in the United States.

3:00 p.m.

Closing Session