

ISWA World Congress, 7-11 October 2013 in Vienna Programme – Oral Presentations

Monday 16:00 – 18:00

Session 1: New Ideas for Waste Management

Chair: Antonis Mavropoulos

- WEB-BASED ELECTRONIC WASTE DUTY OF CARE SYSTEM TO REDUCE ADMINISTRATIVE BURDENS AND IMPROVE QUALITY OF INFORMATION
Victoria Vaughan-Williams, Environment Agency, United Kingdom
- A NEW APPROACH: RE-SHAPING THE HUNGARIAN WASTE LEGISLATION AND SYSTEM
Krisztina Wégner, National Waste Management Agency, Hungary
- ANALYSIS OF COAL FLY ASH PARTICLE SIZE, DENSITY AND STRUCTURE AND ITS COMPARISON WITH RICE STRAW ASH FOR USE AS WET END FILLERS IN PAPER
Akhouri Sanjay Kumar Sinha, Sliet Longowal, India
- REUSE OF MARBLE DUST AS FINE AGGREGATE IN ULTRA-HIGH PERFORMANCE CONCRETE
Amar Sharma, Indian Institute of Technology Delhi, India
- THE TRANSITION OF WASTE MANAGEMENT TOWARDS THE MATERIALS ROUNDABOUT
Ronald De Vries, Rabobank International, Netherlands
- PUBLIC-PRIVATE COLLABORATION FOR INNOVATIVE SOLUTIONS IN MSW MANAGEMENT – TOWARDS A PARTNERING APPROACH?
Sofie Dam, CBS - Department of Business and Politics, Denmark

Session 2: Hazardous Waste

Chair: Jean-Paul Leglise

- INTERIM STORAGE OF HAZARDOUS WASTE - A COMPLEX CHALLENGE
Karl Harather, IUT Ingenieurgesellschaft Innovative Umwelttechnik, Austria
- CLOSING THE MINES IN ROMANIA - A NEW CHALLENGE
Florea-Gabrian Cornel, Environmental Specialists and Technicians Profesional Association, United States
- COPING WITH BANNED CHEMICALS IN WASTE: LESSONS FROM THE PCB CASE
Henning Friege, Technische Univeristät Dresden, Germany
- INVESTIGATION OF THE HEXAVALENT CHROMIUM ORIGIN IN GREEK OPHIOLITIC AQUIFERS
Dimitris Dermatas, NTUA, Greece

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- SOLUBILITY AND MOBILITY OF ANTIMONY (SB) IN AIR POLLUTION CONTROL RESIDUES TREATED WITH IRON RICH WASTE SULFURIC ACID
Gudny Okkenhaug, *Norwegian Geotechnical Institute, Norway*
- REMEDIATION TECHNOLOGIES FOR HEXAVALENT CHROMIUM CONTAMINATED AQUIFERS
Dimitris Dermatas, *NTUA, Greece*

Session 3: Present and Future State of Waste Management in Developing Countries

Chair: *Atilio Savino*

- OPERATOR MODELS FOR DELIVERING MUNICIPAL SOLID WASTE MANAGEMENT SERVICES IN EMERGING AND DEVELOPING COUNTRIES
David C Wilson, *Imperial College London, United Kingdom*
- CASE STUDY: LAUNCH OF THE FIRST SOLID WASTE MANAGEMENT PROGRAM IN THE TURKS AND CAICOS ISLANDS (2012) - LESSON AND CHALLENGES
Timothy Hodge, *Sanitas Partners LLC, United States*
- PROFILING MICRO ENTREPRENEURS IN SOLID WASTE MANAGEMENT AND SANITATION: A REVIEW BASED ON 10 DEVELOPING COUNTRIES
Natalia Agathou, *Triodos Facet, Netherlands*
- OPPORTUNITIES FOR INFORMAL SECTOR INTEGRATION IN URBAN WASTE MANAGEMENT - A CASE STUDY FROM SENEGAL
David Roman, *Recoval, Wales*
- CLIMATE CHANGE MITIGATION THROUGH SOLID WASTE MANAGEMENT
Wolfgang Pfaff-Simoneit, *German Development Bank, Germany*
- POTENTIAL TO REDUCE METHANE EMISSIONS FROM LANDFILLS IN NEW DELHI, INDIA
Kritika Singh, *The University of Edinburgh, Scotland*

Session 4: Healthcare Waste

Chair: *Jan-Gerd Kühling*

- STRATEGIES SIGNIFICANTLY REDUCING WASTE AT A US TERTIARY HEALTHCARE FACILITY
Terry Grimmond, *Grimmond and Associates, New Zealand*
- BASELINE SURVEY OF 5 DISTRICT HOSPITALS OF STATE OF JHARKHAND
Lalji Verma, *Indian Society of Hospital Waste Management, India*
- HEALTHCARE WASTE HANDLING PRACTICES IN AFRICA – NIGERIA A CASE STUDY
Chimere May Ohajinwa, *Research Action Information Network for Environment and Development, Nigeria*

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- MANAGEMENT OF MEDICAL WASTE: CASE STUDY IN BRAZILIAN HOSPITAL
Silvia Carla da Silva André, *University of São Paulo, Brazil*
- DEVELOPMENT OF HEALTHCARE WASTE MANAGEMENT IN SERBIA
Verica Jovanovic, *Euro Health Group, Serbia*
- HEAVY METALS IN SOILS AND TRIDAX PROCUMBENS IN THE VICINITY OF THE UNIVERSITY COLLEGE HOSPITAL INCINERATOR IN IBADAN, SOUTH-WEST, NIGERIA
Olajumoke Morenikeji, *University of Ibadan, Nigeria*

Session 5: Guidelines for National Waste Management Strategies – Moving from Challenges to Opportunities, UNEP/UNITAR

The session will launch the new guidelines for the development, review, and updating of national waste management strategies – a joint effort of the United Nations Environment Programme (UNEP) and the United Nations Institute for Training and Research (UNITAR). The guidelines, which establish a clear rationale for making waste management a national priority, are an early response to recommendations of Rio+20, which called for the development of comprehensive national waste management strategies.

The launch of the guidelines will be accompanied by a panel discussion on how to make the best use of the guidelines and on the relevance of national strategies as a tool to meet the challenges and reap the opportunities presented by waste management.

WELCOME REMARKS

- Helena Molin Valdés, UNEP, France
- Rob Visser, UNITAR, France

PRESENTATION OF THE GUIDELINES:

- Mushtaq Memon, UNEP, Japan

OFFICIAL LAUNCH – RIBBON CUTTING CEREMONY

- Helena Molin Valdés, UNEP, France
- Rob Visser, UNITAR, France

PANEL DISCUSSION

Chair: Rob Visser

Panelist:

- Carlos Silva Filho, ABRELPE, Brazil

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- Emily McGlynn, Office of the Special Envoy for Climate Change, United States [TBC]
- Hussein Abaza, Centre for Sustainable Development Solutions, Egypt
- Markus Luecke, Gesellschaft fuer Internationale Zusammenarbeit (GIZ), SWEEP-Net, Germany
- Vaneeta Bhojwani, National Environment Agency, Singapore

Session 6: Landfill Mining

Chair: Anke Bockreis

- ISWA KEY ISSUE PAPER ON LANDFILL MINING
Richard Fisher, *Cranfield University, United Kingdom*
- LANDFILL MINING - FICTION OR OPTION?
Veronika Ustohalova, *Öko-Institut, Germany*
- LANDFILL MINING – A CONTRIBUTION TO CONSERVATION OF NATURAL RESOURCES?
Sebastian Wanka, *Technische Universität Braunschweig, Germany*
- LANDFILL MINING - A FEASIBILITY STUDY FOR SCOTLAND
David Lerpiniere, *Ricardo-AEA, United Kingdom*
- METAL ENRICHMENT IN LANDFILLS AND ITS RESOURCE VALUE
Kazuo Kamura, *Waseda University, Japan*
- LANDFILL MINING IN FLANDERS: METHODOLOGY FOR PRIORITIZATION
Peter Van den Bossche, *Witteveen+Bos Belgium N.V., Belgium*

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Tuesday 09:00-11:00

Session 8: New Ideas for Waste Management

Chair: Arne Ragossnig

- A STUDY ON POTENTIAL IMPROVEMNT OF WASTE MANIFEST SYSTEMS FOR ESTABLISHING A RECYCLING-BASED SOCIETY
Sangyul Kim, Hokkaido University, Japan
- CASCADING APPROACH OF BIOWASTE TREATMENT TO OBTAIN VALUE-ADDED ORGANIC BY-PRODUCTS AND BIOGAS
Irene Schneider, University of Innsbruck, Austria
- MUNICIPAL SOLID WASTE MANAGEMENT : INNOVATIVE WASTE SEGREGATION IN INDONESIA
Mohammad Helmy, Indonesia Solid Waste Association, Indonesia
- URBAN WASTE MANAGEMENT AND THE MOBILE CHALLENGE
Antonis Mavropoulos, D-WASTE, Greece
- BIOTECHNOLOGICAL APPROACHES TO THE DEGRADATION OF SYNTHETIC POLYMERIC MATERIALS
Fabio Fava, University of Bologna & Ecomondo, Italy
- HOUSEHOLD RECYCLING INCENTIVES – DO THEY WORK?
SarahJane Widdowson, Ricardo-AEA, United Kingdom

Session 9: Sustainable Waste Management Concepts and Strategies

Chair: Christian Stiglitz

- DEVELOPEMNT OF MATERIAL FLOW/STOCK MODEL FOR FUTURE WASTE MANAGEMENT IN JAPAN
Tomohiro Tasaki, National Insitute for Environmental Studies, Japan
- MIDDLE INCOME COUNTRIES – NEITHER FISH NOR FOWL, BUT A GROWING CENTRE
Anne Scheinberg, WASTE-Advisers on urban environment and development, Netherlands
- ADVANCED WASTE SEPARATION: COMPARISON OF SENSOR-BASED AND MECHANICAL PROCESSING TECHNOLOGIES
Martina Meirhofer, Bioenergy 2020+ GmbH, Austria
- ECO INDUSTRIAL PARKS: A TOOL TOWARDS RIO DE JANEIRO INDUSTRIAL PARK SETTLEMENT RE-DESIGN
Lilian Bechara Elabras-Veiga, Rio de Janeiro Federal University, Brazil

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- TRADING THE TRASH: DESIGNING AN URBAN SOLID WASTE MARKET IN SOUTHERN BRAZIL
Valny Giacomelli Sobrinho, *Universidade Federal de Santa Maria, Brazil*
- FROM WASTE HANDLER TO RESOURCE MANAGER: NEW ROLES FOR SOLID WASTE MANAGEMENT COMPANIES IN A CIRCULAR ECONOMY
Jasper de Lange, *Wageningen University, The Netherlands*

Session 10: Present and Future State of Waste Management in Developing Countries

Chair: Johann Fellner

- LIFE CYCLE COMPARISON OF WASTE-TO-ENERGY ALTERNATIVES FOR MUNICIPAL WASTE TREATMENT IN THE CHILEAN PATAGONIA
Alberto Bezama, *Helmholtz - Centre for Environmental Research, Germany*
- FRAMEWORK FOR INTEGRATION OF INFORMAL WASTE MANAGEMENT SECTOR WITH THE FORMAL SECTOR IN PAKISTAN
Maryam Masood, *University of Cambridge, United Kingdom*
- DETERMINING MOISTURE CONTENT IN DIFFERENT FRACTIONS OF MSW - CASE STUDY OF NOVI SAD
Bojan Batinic, *Faculty of Technical Science, Serbia*
- SUSTAINABLE USE OF ORGANIC WASTES IN PERU – EXPERIMENTS WITH GROUND COFFEE RESIDUES IN A SELF CONSTRUCTED BENCH SCALE PYROLYSIS REACTOR
Michael Klug, *Pontificia Universidad Católica del Perú, Perú*

Session 11: Healthcare Waste

Chair: Terry Grimmond

- TREATMENT METHOD FOR INFECTIOUS WASTE WATER FROM MEDICAL AND CHEMICAL ESTABLISHMENTS
Daniel Höllen, *University of Leoben, Austria*
- AFFORDABLE AND SUSTAINABLE BIOMEDICAL WASTE MANAGEMENT STRATEGIES IN A LARGE TERTIARY CARE HOSPITAL IN A DEVELOPING COUNTRY: COST CONTAINMENT WITH OPTIMAL CARE
Anupam Wakhlu, *King Georges Medical University, India*
- CURRENT SITUATION OF THE HEALTH CARE WASTE MANAGEMENT IN MONGOLIA
Tsetsegsaikhan Batmunkh, *Ministry of Health, Mongolia*
- ANALYSIS OF CURRENT DISPOSAL OPTIONS FOR SINGLE-USE MEDICAL DEVICES IN ENGLAND AND POTENTIAL IMPROVEMENTS FOR THE FUTURE
Madeleine Yates, *University of Cambridge, United Kingdom*

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- OPTION BASED HEALTHCARE WASTE MANAGEMENT
Lalji Verma, *Vegma Enviro Consultants, India*
- THE CHALLENGE OF HEALTHCARE WASTE MANAGEMENT IN OGUN STATE, NIGERIA: A CASE STUDY FROM TWENTY SELECTED PRIMARY HEALTH CENTRES
Ezechiel Oladapo Longe, *University of Lagos, Nigeria*

Session 12: Electronic and Electrical Waste

Chair: *Stefan Salhofer*

- RECOVERY OF CRITICAL METALS – TOWARDS A PARADIM SHIFT IN WEEE RECYCLING
Vera Susanne Rotter, *Technische Universität Berlin, Germany*
- ESTIMATION OF THE MATERIAL COMPOSITION OF WEEE THROUGH DISMANTLING ANALYSIS
Maria Dos Santos, *KERP Center of Excellence Electronic & Environment, Austria*
- MONITORING OF POLYBROMINATED FLAME RETARDANTS IN TV AND PC WASTE PLASTICS WITH PORTABLE XRF
Alexia Aldrian, *University of Leoben, Austria*
- MATERIAL FLOW OF FLAME RETARDANTS-CONTAINING E-WASTE POLYMERS IN NIGERIA
Roland Weber, *Nigeria POPs Environmental Consulting, Germany*
- VDI GUIDELINE 2343 - RECYCLING OF ELECTRICAL AND ELECTRONIC EQUIPMENT - GUIDELINE GIVES RECOMMENDATIONS FOR THE CONCERNED PARTIES
Ralf Brüning, *Dr. Brüning Engineering, Germany*

Session 13: Communication and Social Issues

Chair: *Gunilla Carlsson*

- THE CHALLENGES OF AWARENESS-RAISING IN HUNGARY
Szabolcs Török, *National Waste Management Agency, Hungary*
- POTENTIALS OF 3R PROMOTION MEASURES ON CITIZEN PARTICIPATION IN WASTE REDUCTION AND RECYCLING
Yasuhiro Matsui, *Okayama University, Japan*
- HOW TO CAPTURE PACKAGING FROM OUT-OF-HOME CONSUMPTION
Adriaan Lowet, *Fost Plus, Belgium*
- IF YOU BUILD IT, THEY WILL RECYCLE: THE CRITICAL IMPORTANCE OF INFRASTRUCTURE IN CHANGING RECYCLING BEHAVIOUR
Judith Alcorn, *The University of Melbourne, Australia*

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- WASTE: WE ARE WHAT WE SPILL OFF
Julian Ignacio Chalde, *Arlanda Ambiental COUNSULTING, Argentina*

Session 14: Regional and City Solutions for Waste Management

Chair: Goran Vujic

- WASTE MANAGEMENT AND RECYCLING IN THE FORMER SOVIET UNION CITY OF BISHKEK, KYRGYZSTAN
Natasha Sim, *Corporate Solutions Consulting Limited, Kyrgyzstan*
- ZERO CONSTRUCTION, RENOVATION & DEMOLITION WASTE - YOU CAN IF YOU PLAN
Renée Gratton, *Construction Resource Initiatives Council, Canada*
- A SUSTAINABLE WASTE MANAGEMENT SYSTEM: THREE CITIES, THREE COMMON SUCCESS FACTORS AND THREE DIFFERENT APPROACHES TO REACH SUCCESS
Weine Wiquist, *Avfall Sverige - Swedish Waste Management, Sweden*
- COMPARATIVE ANALYSIS OF MUNICIPAL WASTE MANAGEMENT IN SELECTED EUROPEAN CAPITALS
Natalija Cudecka-Purina, *BA School of Business and Finance, Latvia*

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Tuesday 11:30 – 12:50

Session 15: Landfilling and Landfills

Chair: Derek Greedy

- PROCESS DEGRADATION OF ORGANICS IN THE LANDFILL: MATOSINHOS LANDFILL CASE STUDY
Mario A. T. Russo, *Polytechnic Institute of Viana do Castelo, Portugal*
- LEACHATE RISK AND IDENTIFICATION OF ACCUMULATED HEAVY METALS IN P. SUTCHI
Fauziah Shahul Hamid, *University of Malaya, Malaysia*
- EXPLORING THE ANTHROPOCENE: MAPPING AND SURVEYING OF LANDFILLS IN FLANDERS
Luk Umans, *OVAM, Belgium*
- MAXIMIZING LANDFILL CAPACITY BY VERTICAL EXPANSION - A CASE STUDY FOR AN INNOVATIVE WASTE MANAGEMENT SOLUTION
James H. Law, *SCS Engineers, United States*

Session 16: Sustainable Waste Management Concepts and Strategies

Chair: Paul H. Brunner

- IMPROVEMENT OF URBAN SOLID WASTE MANAGEMENT THROUGH RECYCLING INCENTIVES: A METHODOLOGY FOR MORE SUSTAINABLE CITIES
Jacqueline Rutkowski, *Instituto Sustentat, Brazil*
- END OF LIFE CYCLE THINKING FOR REVISITING THE WASTE HIERARCHY
Dirk Nelen, *VITO NV, Belgium*
- DRIVING PUBLIC SECTOR RESOURCE EFFICIENCY – UK POLICIES, PROGRAMMES AND COMMERCIAL SECTOR LEADERSHIP
SarahJane Widdowson, *Ricardo-AEA, United Kingdom*

Session 17: Materials Recycling

Chair: Maarten Goorhuis

- RECYCLED PLASTICS FROM AHP
Alessandro Marseglia, *Consorzio CETMA, Italy*
- SYSTEMS ANALYSIS FOR THE RECYCLING OF ELEKTROCHEMICAL ENERGY STORAGE SYSTEMS – STATE OF THE ART, DEVELOPMENTS AND CHALLENGES
Marcel Weil, *Karlsruhe Institute of Technology, Germany*

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- EFFECT OF CHIP SIZES ON DIRECT RECYCLING OF ALUMINIUM CHIPS (AA6061) IN THE HOT PRESS FORGING PROCESS
Mohd Amri Lajis, *Universiti Tun Hussein Onn Malaysia, Malaysia*
- ROLE OF ECO-INDUSTRIAL PARKS IN DEVELOPMENT OF RECYCLING
Ogtay Mammadov, *Tamiz Shahar JSC, Azerbaijan*

Session 18: Construction and Demolition Waste

Chair: Clemens Deilmann

- DEVELOPING SOLUTIONS FOR NATIONAL END-OF-WASTE CRITERIA FOR AGGREGATES FROM INERT WASTE IN THE UK
Paul Murray, *Environment Agency, United Kingdom*
- END-OF-WASTE FOR RECYCLED AGGREGATES FROM CONSTRUCTION & DEMOLITIONS WASTES IN AUSTRIA – DEVELOPMENT OF A REGULATION
Roland Starke, *BMLFUW, Austria*
- ADVANCED RECYCLING SYSTEMS FOR CDW STONY FRACTION
David Garcia, *Tecnalia Research and Innovation, Spain*

Session 19: Electronic and Electrical Waste

Chair: David Wilson

- REUSE AND RECYCLING OF WEEE IN VIENNA – MODEL FOR OTHER URBAN REGIONS
Markus Spitzbart, *Die Wiener Volkshochschulen GmbH - D.R.Z, Austria*
- MANAGEMENT OF SMALL WEEE WITH A FOCUS ON SEPARATE COLLECTION
Stefan Salhofer, *University of Natural Resources and Life Sciences, Austria*
- RESOURCE INTENSITY AS STARTING POINT FOR THE PLANNING OF WASTE INFRASTRUCTURES
Nadja von Gries, *Wuppertal Institute, Germany*

Session 20: Financing Waste Treatment Plants

Chair: Heinz Georg Baum

- FINANCING ALTERNATIVES FOR WASTE TREATMENT PLANTS IN BRAZIL
Sérgio Augusto Lucke, *Unicamp / Unisal / SAUBER Technologies, Brazil*
- LENDERS FEAR FINANCING WASTE TREATMENT PLANTS IN BRAZIL
Renata Piazzon, *Lobo & de Rizzo Advogados, Brazil*



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Session 21: Regional and City Solutions for Waste Management

Chair: *Walter Hauer*

- THE CITY OF LAGOS - SOLID WASTE MANAGEMENT
Jeleel Olubodun Olubori, Lagos Waste Management Authority, Nigeria
- PALANGA RESORT SOLUTIONS FOR WASTE MANAGEMENT
Irina Kliopova, Kaunas University of Technology, Lithuania
- NORTH LONDON WASTE PROCUREMENT – SEPARATED WASTE SERVICES AND FUEL USE CONTRACTS
Euston Ling, North London Waste Authority, United Kingdom

Tuesday 14:00 – 15:30

Session 22: Landfilling and Landfills

Chair: *Johann Fellner*

- MBR AND SBR PERFORMANCE FOR THE TREATMENT OF HIGH STRENGTH LANDFILL LEACHATE: A COMPARATIVE ASSESSMENT
Mutasem El-Fadel, American University of Beirut, Lebanon
- CONDENSATION AND EVAPORATION OF LANDFILL GAS IN LFG TRANSFER PIPE
Kyeong Ho Lee, Sudokwon Landfill Site Management Corp., South Korea
- PREDICTING AND COMPARING INFILTRATION RATES THROUGH VARIOUS LANDFILL CAP SYSTEMS USING WATER-BALANCE MODELS - A CASE STUDY
Sara Pantini, University of Rome Tor Vergata, Italy
- IMPROVING LANDFILL GAS PROJECT VIABILITY – RECOMMENDATIONS FROM THE INTERNATIONAL BEST PRACTICES GUIDE FOR LANDFILL GAS ENERGY
Swarupa Ganguli, US Environmental Protection Agency, United States

Session 23: Sustainable Waste Management Concepts and Strategies

Chair: *Christian Stiglitz*

- MFA, LCA AND OPTIMIZATION COMBINED FOR MORE SUSTAINABLE WASTE MANAGEMENT
Carl Vadenbo, ETH Zurich, Switzerland
- BENCHMARK INDICATORS FOR INTEGRATED & SUSTAINABLE WASTE MANAGEMENT (ISWM)
David C. Wilson, Imperial College London, United Kingdom



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- WASTE MANAGEMENT ON SMALL ISLANDS
Andrew Street, *SLR Consulting Ltd, United Kingdom*
- DELIVERING 'ZERO WASTE' IN GREATER MANCHESTER
Stephen Jenkinson, *Viridor Laing (Greater Manchester) Ltd, United Kingdom*

Session 25: Stakeholder Involvement in Waste Management

Chair: *Antonis Mavropoulos*

- LEAVING THE DESK FOR BETTER RESULTS
Yvonne Amskov, *I/S Vestforbrænding, Denmark*
- GREENING SOLID WASTE AT THE VILLAGE LEVEL PAYS OFF-A CASE STUDY IN EGYPT
Hussein Abaza, *Centre for Sustainable Development Solutions, Egypt*
- THE USE OF WASTE DERIVED FUEL IN THE GREEK CEMENT INDUSTRY: POLICY ISSUES AND SOCIAL PARTICIPATION
Evangelos Terzis, *Hellenic Recycling Agency, Greece*
- SOCIAL CAPITAL AND MUNICIPAL SOLID WASTE RECYCLING : A CASE STUDY IN THAI MUNICIPALITY
Taweep Chaisomphob, *Thammasat University, Thailand*

Session 26: Knowledge Base for Waste Management

Chair: *Susanne Rotter*

- UNDERSTANDING THE ECONOMIC AND ENVIRONMENTAL IMPACTS OF RE-USE
Keith James, *Waste and Resources Action Programme, United Kingdom*
- PACKAGING WASTE MANAGEMENT IN EUROPE: THE ECONOMIC VALUE OF EXTERNALITIES
Sandra Ferreira, *IST, Portugal*
- AN EVIDENCE-BASED APPROACH TO REGULATION OF INCINERATOR BOTTOM ASH AGGREGATE
Roy Hathaway, *The Environmental Services Association, United Kingdom*
- THE PRACTICE OF SOLID WASTE MANAGEMENT IN 19 MUNICIPALITIES OF AMAZONAS
Júlio Assis Corrêa Pinheiro, *Tribunal de Contas do Estado do Amazonas, Brazil*

Session 27: Waste Prevention

Chair: *Maarten Goorhuis*

- PREVENTION OF FOOD WASTE IN VIENNA
Ulrike Stocker, *Environmental Department of the City of Vienna, Austria*

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- INFORMAL SECTOR IN CENTRAL EUROPE WITHIN THE FRAMEWORK OF LEGAL ISSUES AND POTENTIAL LOSS OF RESOURCES
Gudrun Obersteiner, *University of Natural Resources and Life Sciences, Austria*
- MEASUREMENT OF FURTHER USE AND REUSE OF PRODUCTS AND ITS IMPROVEMENT
Walter Hauer, *Technisches Büro HAUER Umweltwirtschaft GmbH, Austria*

Session 28: Extended Producer Responsibility Experiences in Developed and Developing Countries

Chair: *Christoph Scharff*

- REVERSE LOGISTICS FOR RECYCLING PESTICIDE PACKAGING
Marcelo Veiga, *National School of Public Health - Ministry of Health, Brazil*
- IMPLEMENTING EPR POLICIES IN AN ERA OF ECONOMIC CRISIS: THE CASE STUDY OF GREECE AND CYPRUS
Katia Lasaridi, *Hellenic Recycling Agency, Greece*
- HOW TO ALLOCATE THE COSTS FOR CIVIC AMENITY SITES TO DIFFERENT WASTE STREAMS COVERED BY EPR?
Piet Coopman, *Association of Flemish Cities and Municipalities, Belgium*
- EXTENDED PRODUCER RESPONSIBILITY, ALL TOO OFTEN VICTIM OF POOR IMPLEMENTATION IN NATIONAL LEGISLATIONS
Christof Delatter, *Stafmedewerker Milieu VVSG vzw, Belgium*

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Session 29: Landfilling and Landfills

Chair: Karl Lorber

- ANAEROBIC AMMONIUM OXIDATION (ANAMMOX-PROCESS): THE SOLUTION FOR THE LONG TERM EMISSION PROBLEM OF AMMONIUM FROM LANDFILLS
Willem van Vossen, Royal HaskoningDHV, Netherlands
- LANDFILL IN-SITU AERATION: ASSESSMENT OF THE LONGTERM EMISSION BEHAVIOUR AND ENVIRONMENTAL IMPACT BASED ON A FIVE YEARS CASE STUDY
Marion Huber-Humer, University of Natural Resources and Life Sciences, Austria
- SITE-SPECIFIC EVALUATION OF LANDFILL AFTERCARE – CASE STUDIES
David Laner, Vienna University of Technology, Austria
- SOIL-MECHANICAL AND CHEMICAL ANALYSIS OF A COMPACTED CLAY LINER AT THE BOTTOM OF A MSW-LANDFILL AFTER 30 YRS OF OPERATION
Wolf Ulrich Henken-Mellies, TUV Rheinland LGA Bautechnik, Germany
- UNIQUE LANDFILL GAS UTILIZATION PROJECTS AS SMALL, CLOSED LANDFILLS
James H. Law, SCS Engineers, United States
- A SPREADSHEET TOOL TO CALCULATE LANDFILL GAS FLOW ACROSS A RANGE OF CONTROL VALVES OR TO SELECT APPROPRIATE VALVES BASED ON DESIGN FLOWS
Chris Cronin, Fehily Timoney & Company, Ireland

Session 30: Advanced Thermal Treatment and Waste to Energy

Chair: Jørgen Haukohl

- COMBUSTION TECHNOLOGIES AND WASTE EFFECTS ON WASTE FLY ASH PROPERTIES
Amon Purgar, Vienna University of Technology, Austria
- THE ECONOMIC DEVELOPMENT BENEFITS OF WASTE-TO-ENERGY FACILITIES
Jeremy O'Brien, Solid Waste Association of North America, United States
- NEXT GENERATION WASTE TO ENERGY PLANT
Robert von Raven, Martin GmbH, Germany
- HIGH-EFFICIENCY WASTE-TO-ENERGY: CONCEPTS AND OPERATIONAL EXPERIENCES
Peter Simoes, Afvalenergiebedrijf, Netherlands
- OPTIMIZING ENERGY RECOVERY AND USE OF CHEMICALS, RESOURCES AND MATERIALS IN MODERN WASTE-TO-ENERGY PLANTS
Johan De Greef, Keppel Seghers Belgium, Belgium

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Session 31: Materials Recycling

Chair: Jeff Cooper

- LITHIUM ION BATTERY RECYCLING FROM EVS & HEVS
Astrid Arnberger, *University of Leoben, Austria*
- THE RECOVERY OF SECONDARY RAW MATERIALS FROM STREET CLEANING WASTE
Paolo Bevilacqua, *Gruppo Esposito, Italy*
- MULTI-LEVEL ANALYSIS OF ALUMINIUM FLOWS IN AUSTRIA
Hanno Buchner, *Vienna University of Technology, Austria*
- SOLVENT-BASED DEPOLYMERIZATION OF POLYOLEFINS AND OTHER WASTE PLASTICS FRACTIONS – COMPARISON TO STATE-OF-THE-ART TECHNOLOGIES
Christiane Lederer, *University of Leoben, Austria*
- POST- CONSUMER PLASTICS IN AUSTRIA AND THEIR POTENTIAL FOR CHEMICAL RECYCLING
Markus Bauer, *University of Leoben, Austria*
- UTILIZATION OF WASTE MARBLE DUST AND BLAST FURNACE SLAG IN STEEL FIBER REINFORCED SELF COMPACTING CONCRETE
Mahmut Dumangöz, *Bilecik Seyh Edebali University, Turkey*

Session 32: Climate and Clean Air Coalition (CCAC) panel discussion on MSW Management

Chair: Swarupa Ganguli

- INTRODUCTION TO CCAC, MSW INITIATIVE AND LAUNCH OF KNOWLEDGE PLATFORM
Helena Molin Valdés, *UNEP, France*
- REDUCING SHORT LIVED CLIMATE POLLUTANTS THROUGH PROPER SOLID WASTE MANAGEMENT
Nimmi Damodaran, *Stratus Consulting Inc., United States*
- CCAC CITY OVERVIEW: CASE STUDY OF ADDIS ABABA
Chris Godlove, *US EPA, United States*
- CCAC IN ACTION: CASE STUDY OF RIO DE JANEIRO
Jose Penido Monteiro, *Rio de Janeiro City Solid Waste Company (COMLURB), Brazil*
- CCAC IN ACTION: EMISSIONS METHODOLOGIES FOR CALCULATING SLCPS
Gary Crawford, *Veolia, France*
- Q & A AND MODERATED PANEL DISCUSSION

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Session 33: Knowledge Base for Waste Management

Chair: Susanne Rotter

- REFUSE OR SECONDARY RESOURCE? A FRAMEWORK TO EVALUATE THE STATUS OF WASTE: THE CASE OF WASTE PAPER
Francis C. Bergeron, *University of Geneva, Canada*
- WASTE MONITORING SERVICES FOR PRODUCERS AND WASTE MANAGEMENT
Ari Serkkola, *Aalto University, Finland*
- INFLUENCE OF HEATING CONDITIONS ON THE LEACHING OF HEAVY METALS AND OXYANIONS FROM THERMALLY TREATED WASTE
Bram Verbinnen, *University of Leuven, Belgium*
- GLOBAL WASTE FIGURES AND FORECAST
Antonis Mavropoulos, *D-Waste, Greece*
- HOW CARBON WILL INFLUENCE FUTURE WASTE MANAGEMENT COLLECTION BASED DECISION-MAKING
David Lerpiniere, *Ricardo-AEA, United Kingdom*
- PRACTICAL EXPERIENCE WITH REVERSE LOGISTICS EXTENDS THE KNOWLEDGE BASE FOR DOMESTIC WASTE MANAGEMENT
Manfred Fehr, *Federal University at Uberlandia, Brazil*

Session 34: Waste Prevention

Chair: Gerhard Vogel

- MODEL FOR PACKAGING OPTIMIZATION AND INDUSTRIAL DOCUMENTATION: CASE STUDY IN LITHUANIAN PACKAGING SECTOR
Daina Kliugaite, *Kaunas University of Technology, Lithuania*
- PETRA WASTE BECHMARKING MEASURES MATERIAL EFFICIENCY OF SERVICES AND SMALL-SCALE INDUSTRY IN SOUTHERN FINLAND
Susan Lyytikäinen, *Helsinki Region Environmental Services, Finland*
- WASTE PREVENTION DEVELOPMENT IN TAIWAN DURING 2002 – 2012
Chih-Ku Chen, *Sustainable Environmental Technology and Management Co., Taiwan (Chinese Taipei)*
- DECOUPLING OF WASTE AND ECONOMIC INDICATORS: EXPERIENCES OF THE UK
Keith James, *Waste and Resources Action Programme, United Kingdom*
- DOES “ZERO WASTE” MEAN NO WASTE?
Andreas Bartl, *Vienna University of Technology, Austria*

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- IMPROVING SOLID WASTE REDUCTION PROGRAMS BY PREDICTING WASTE PREVENTION BEHAVIOUR

Ana Paula Bortoleto, *The University of Sheffield, United Kingdom*

Session 35: Eco-Materials and Green Products

Chair: Roland Pomberger

- DEVELOPMENT OF SUSTAINABLE POTTING SOIL BASED ON GREEN COMPOST AND OTHER ORGANIC RECYCLED MATERIALS
Barbara Hoekstra, *Vlaco vzw, Belgium*
- THE P.R.I.M.E.3, A CHANCE FOR THE USE OF RECYCLING MATERIALS AND ENVIRONMENTAL SUSTAINABILITY
Maria Irene Cardillo, *AECI srl, Italy*
- PROPERTIES ON HYDRATION SETTING OF THE LADLE FURNACE SLAG BEING SOLID BY THE AIR RAPID COOLING METHOD FROM MELTING STATE
Sun-Mi Choi, *Kongju National University, South Korea*
- FULL SCALE COMPOSTING TEST ON BIOPLASTICS PACKAGING MATERIALS
Massimo Centemero, *Consorzio Italiano Compostatori, Italy*
- EXPERIMENTAL STUDY ON THE DEVELOPMENT OF APPLICATIONS FOR RAPIDLY CHILLED CAO-AL₂O₃ STEEL SLAG
Keun Jae Lee, *Tong Yang Cement Corporation, South Korea*
- PLANNED OBSOLESCENCE. – AWARENESS CAMPAIGN TO PROMOTE DURABLE, REPAIRABLE ELECTRICAL APPLIANCES
Sepp Eisenriegler, *Repair and Service Center R.U.S.Z Vienna, Austria*

Wednesday 09:00 – 11:00

Session 36: Organic Waste

Chair: Wojciech Rogalski

- RESULTS OF THE ISWA GRANT "REGIONAL BIOWASTE WORKSHOPS FOR IMPLEMENTATION OF SUSTAINABLE BIOWASTE MANAGEMENT CONSIDERING LATEST EU POLICIES"
Marco Ricci, *ISWA Working Group WGBTW, Italy*
- COMPARISON OF TREATMENT METHODS FOR ORGANIC WASTE BY MEANS OF LIFE CYCLE ASSESSMENT
Winfried Bulach, *Karlsruhe Institute of Technology KIT, Germany*

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- LOW-COST PRODUCTION OF CHARCOAL BRIQUETTES FROM URBAN WASTE
Kevin Kung, *Massachusetts Institute of Technology, United States*
- NEW AERATION METHOD FOR COMPOSTING PILES
Monica de Abreu Azevedo, *Federal University of Viçosa, Brazil*
- COST BENEFIT ANALYSIS OF THERMAL PRETREATMENT TO ENHANCE ANAEROBIC DIGESTION OF FOOD WASTE
Javkhlan Ariunbaatar, *University of Cassino and the Southern Lazio, Italy*
- STONE CONTENT IN GREEN WASTE BASED FUELS: METHODOLOGIES FOR DETERMINATION AND EFFECT ON FUEL QUALITY
Andreas Haider, *Holzforschung Austria, Austria*

Session 37: Advanced Thermal Treatment and Waste to Energy

Chair: *Bettina Kamuk*

- ISWA WHITE PAPER ON ALTERNATIVE THERMAL WASTE CONVERSION TECHNOLOGIES
Bettina Kamuk, *Ramboll/ISWA, Denmark*
- EXPERIENCES IN PLANNING, LICENSATION AND ERECTION OF MWIP IN POLAND
Volker Grotefeld, *Grontmij GmbH, Germany*
- TURNKEY A LOT: CONTRACT STRUCTURE FOR WTE PLANTS
Edmund Fleck, *Martin GmbH, Germany*
- OPERATING AND ENVIRONMENTAL PERFORMANCES OF COMMERCIAL-SCALE WASTE GASIFICATION AND MELTING TECHNOLOGY
Nobuhiro Tanigaki, *Nippon Steel & Sumikin Engineering, Japan*
- PURE STEAM REFORMING OF MUNICIPAL SOLID WASTE
Ernie Dueck, *Elementa Group Inc, Canada*
- FUEL QUALITY- CHANGES IN WASTE RECOVERED IN WASTE-TO-ENERGY PLANTS
Jenny Sahlin, *Profu, Sweden*

Session 38: Climate Change and Waste Management

Chair: *Gary Crawford*

- LANDFILL OR RECYCLING? A CRITICAL EVALUATION OF PROJECT ALTERNATIVES UNDER THE CLEAN DEVELOPMENT MECHANISM (CDM)
Maarten Siebel, *UNESCO-IHE, Netherlands*
- CREATING VALUE OUT OF KATHMANDU MUNICIPAL ORGANIC WASTE WITHIN A PROFITABLE AND SOCIAL BUSINESS
Saouter Erwan, *Science&Environnement, Switzerland*

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- EMISSIONS OF N₂O AFFECTED BY MATERIAL WATER CONTENTS DURING COMPOSTING
Robert Glanz, *University of Natural Resources and Life Sciences, Austria*
- QUANTIFICATION AND VALIDATION OF GHG EMISSIONS FROM MUNICIPAL WASTE MANAGEMENT WITH CO₂ZW[®] TOOL
Roberto Quirós, *Universitat Autònoma de Barcelona, Spain*
- POTENTIAL ECONOMICS FROM ORGANIC WASTE'S CARBON RECYCLING
Stefan Petters, *quo - Business Development Consult, Austria*
- A RENEWED COMMITMENT TO SUSTAINABILITY AND CLIMATE CHANGE POLICIES IN NORTH AMERICA
John H. Skinner, *The Solid Waste Association of North America, United States*

Session 39 (Shared Session): Waste and Development Policies & Disaster Waste Management

Chair: Roland Weber

- CHALLENGES OF NATIONAL POLICY ON SOLID WASTE IN BRAZIL: AN ANALYSIS OF MUNICIPAL SOLID WASTE MANAGEMENT
Ana Carolina Rosolen Arruda, *University of São Paulo, Brazil*
- PRIVATIZING SOLID WASTE COLLECTION IN ADDIS ABABA (ETHIOPIA) BY INVOLVING MICRO-ENTERPRISES
Meine Pieter van Dijk, *UNESCO-IHE Institute for Water education, Netherlands*
- IMPROVEMENT OF R&D INVESTMENT EFFICIENCY ON WASTE TO ENERGY AND RECYCLING IN SOUTH KOREA
Noeon Park, *Korea Institute of Science and Technology Evaluation and Planning, Korea*
- BEFORE GREEN GROWTH GOES BROWN: USING THE “LINKAGE HYPOTHESIS” TO TRACE BACK AND FORWARD KEY POLLUTERS AND THE MOST BASIC WASTES
Valny Giacomelli Sobrinho, *Universidade Federal de Santa Maria, Brazil*
- DISASTER OPPORTUNITIES: IMPROVING WASTE MANAGEMENT FOLLOWING NATURAL DISASTERS
Gary Morris-Iveson, *Golder Associates, United Kingdom*

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Session 40: SWEEP-Net - Management of Organic Waste in the Middle East & North Africa: Current Practices and Prospects for the Future

Chair: Markus Luecke

- SOLID WASTE MANAGEMENT AND ORGANIC WASTE IN THE MENA REGION
Antonis Mavropoulos, D-Waste and SWEEP-Net Consultant, Greece
- TOWARDS GREENING THE WASTE SECTOR IN THE MENA REGION- A CASE STUDY FROM EGYPT
Hussein Abaza, SWEEP-Net Consultant, Egypt
- TO COMPOST OR TO “WHAT”??!
Marwan Rizkallah, Consultant in Environmental Management and Engineering, Lebanon
- POTENTIAL NORTH-SOUTH COOPERATION ON ORGANIC WASTE
Marco Ricci, Italian Composting and Biogas Consortium, Italy
- PILOT EXPERIENCE IN ORGANIC WASTE COMPOSTING
Mongi Ben Abdallah, Municipality of Houmt Souk Djerba, Tunisia

Session 41: ISWA Project Grant Programme: Showcased Projects

Chair: Rachael Williams

- INTERNATIONAL WASTE MANAGER PROGRAMME IN ARGENTINA, CHILE, COLUMBIA, PERU AND URUGUAY
Atilio Savino, Asociacion para el Estudio de los Residuos Sólidos (ARS), Argentina
- LANDFILLING IN TROPICAL CLIMATES - MEASURES FOR BETTER DESIGN AND OPERATION
Edi Munawar, Syiah Kuala University, Indonesia
- DESIGN JEANS FOR RECYCLING
Maarten Goorhuis, Dutch Solid Waste Association, The Netherlands
- OPPORTUNITIES AND BARRIERS OF RECYCLING IN THE BALKAN COUNTRIES
Bojana Tot, Hellenic Solid Waste Management Association, Serbia
- A NEW TRAINING RESOURCE PACK FOR EMERGING ECONOMIES: IMPROVING COMMUNICATION, INFORMATION AND TRAINING ON HAZARDOUS WASTE MANAGEMENT
Jean-Paul Leglise, ISWA WG-Hazardous Waste Chair, France

Session 42: United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) Special Session: Decentralized and integrated resource recovery centres in developing countries

Chair: Donovan Storey

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- CO-COMPOSTING OF MUNICIPAL SOLID WASTE AND FAECAL SLUDGE FOR AGRICULTURE IN KUSHTIA MUNICIPALITY, BANGLADESH
Iftekhhar Enayetullah, *Waste Concern, Bangladesh*
- DECENTRALIZED AND INTEGRATED RESOURCE RECOVERY CENTRES IN DEVELOPING COUNTRIES: EXPERIENCES AND LESSONS LEARNED FROM MATALE, SRI LANKA
Udeni Chularathna, *Sevanatha Urban Resource Centre, Sri Lanka*
- DECENTRALIZED AND INTEGRATED RESOURCE RECOVERY CENTRES IN DEVELOPING COUNTRIES: LESSONS LEARNED FROM ASIA-PACIFIC
Lorenzo Santucci, *United Nations Economic and Social Commission for Asia and the Pacific, Thailand*
- CRITICAL ASPECTS DETERMINING SUCCESS OF WASTE MANAGEMENT INITIATIVES IN DEVELOPING COUNTRIES
Christian Zurbrügg, *Swiss Federal Institute of Aquatic Science and Technology, Switzerland*
- DECENTRALIZED AND INTEGRATED RESOURCE RECOVERY CENTRES IN DEVELOPING COUNTRIES: LESSONS LEARNED FROM QUY NHON AND KONTUM, VIETNAM
Huy Liem Ngo, *Environment and Development in Action, Vietnam*

Wednesday 11:30 – 12:50

Session 43: Organic Waste

Chair: Marco Ricci

- PROJECT BIORES - OPTIMIZING THE USE OF ORGANIC RESOURCES IN THE REGION WESTERN HUNGARY, VIENNA AND BURGENLAND
Eva Erhart, *Bio Forschung Austria, Austria*
- CAPTURE RATES OF SOURCE SEPARATED ORGANICS: A COMPARISON ACROSS EU, WITH A FOCUS ON METROPOLITAN AREAS
Michele Giavini, *Ambiente srl, Italy*
- BIOWASTE MANAGEMENT IN ITALY: TOTAL AMOUNT OF COLLECTED WASTE AND QUALITY ASSURANCE ANALISYS
Massimo Centemero, *Consorzio Italiano Compostatori, Italy*

Session 44: Advanced Thermal Treatment and Waste to Energy

Chair: Nickolas Themelis



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- CHANGING WASTE QUALITY – FURNACE-BOILER RETROFIT IN THE ENERGY FROM WASTE PLANT AT SANT ADRIA DE BESOS
Volker Wiesendorf, *Hitachi Zosen Inova, Switzerland*
- REDUCED NOX EMISSIONS AND INCREASED ENERGY RECOVERY IN WTE PLANTS
Sven Andersson, *Götaverken Miljö AB, Sweden*
- THE ROLE OF WASTE-TO-ENERGY INDUSTRY IN THE QUEST FOR SUSTAINABLE DEVELOPMENT
Nickolas J. Themelis, *Columbia University, United States*
- WASTE TO ENERGY : FIRST INDUSTRIAL EXPERIENCE IN FLUE GAS TREATMENT WITH THE PROMISSING VAPOLAB TM, DRY SCRUBBING SYSTEM
Christian Bessy, *LAB, France*

Session 45: Climate Change and Waste Management

Chair: *Atilio Savino*

- THE GREENHOUSE GAS AND ENERGY BALANCE OF DIFFERENT TREATMENT CONCEPTS FOR BIO-WASTE
Maria E. Ortner, *University of Innsbruck, Austria*
- SCENARIO ANALYSIS FOR RECYCLING SYSTEM OF BIOMASS-BASED PLASTIC CONTAINERS AND PACKAGING FROM HOUSEHOLD WASTE
Junya Yano, *Kyoto University, Japan*
- IS THE SEPARATE COLLECTION OF MUNICIPAL SOLID WASTE THE BEST ROUTE TO REACH THE MATERIAL RECYCLING EU TARGETS IN A SUSTAINABLE WAY?
Maria Laura Mastellone, *Department of Environmental, Biological, Pharmaceutical Science and Technologies, Italy*
- GREENHOUSE GAS MONITORING AT BIOLOGICAL WASTE TREATMENT PLANTS USING OP-TDLS SYSTEMS
Marlies Hrad, *Institute of Waste Management, University of Natural Resources and Life Sciences, Austria*

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Session 46: WM&R/SAGE: How to get published

Louisa Morphy, SAGE, United Kingdom

This session will cover the fundamentals of preparing a manuscript for publication in an academic journal with direct reference to ISWA's own journal *Waste Management & Research*. The session will include an overview of the publishing landscape; how the publishing landscape is evolving; how to select a relevant publication; preparing your manuscript for submission to a journal; the peer review process; citations and impact factors; your rights as an author and what to do once you have your manuscript published.

Session 47: Waste Collection and Transport Technology

Chair: Frans Willemse

- ROUTE OPTIMIZATION OF SOLID WASTE TRANSPORTATION IN JAIPUR: INDIA
Archana Gupta, University of Rajasthan, India
- REAL-WORLD CO₂ AND NO_x EMISSIONS OF DIESEL TRUCKS OPERATED WITHIN THE ARA COLLECTION AND RECOVERY SYSTEM FOR PACKAGING
Ernst Pucher, Vienna University of Technology, Austria
- DEVELOPMENT OF OPEN STANDARDS IN WASTE CONTAINER MANAGEMENT SYSTEMS
Maarten Goorhuis, HVC, Netherlands
- REDUCING THE OPERATION COST OF YOUR WASTE MANAGEMENT EQUIPMENT
Jenny Michel, Caterpillar, Switzerland

Session 48: Waste Legislation

Chair: Christoph Scharff

- LANDFILLS AND THE CIRCULAR ECONOMY
Heijo Scharff, NV Afvalzorg, Netherlands
- PROMOTING RESOURCE EFFICIENCY THROUGH END OF WASTE
Martin Van Nieuwenhoven, Rijkswaterstaat, Netherlands
- GOOD PRACTICE EXAMPLES ON EFFICIENT WASTE SITE PERMITTING AND INSPECTIONS – EXPERIENCE FROM EU MEMBER STATES
Vesna Milankov, BiPRO GmbH, Germany
- DEFINITION OF RECYCLING
Andreas Bartl, Vienna University of Technology, Austria

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Session 49: Urban Mining

Chair: Sabine Flamme

- MINING OF WASTE FROM AN OLD LANDFILL FOR RE-USE OR RECYCLING : IS IT A VIABLE AND SUSTAINABLE OPPORTUNITY ? TRIAL STUDY OF THE ZUIENKERKE LOCATION (FLANDERS)
Luk Umans, *OVAM, Belgium*
- INVESTIGATING TECHNOLOGIES FOR ASR SEPARATION: A CASE STUDY OF LIGHT FRACTION RECOVERY
Alessandra Bonoli, *DICAM Universtiy of Bologna, Italy*
- DISMANTLING OF CONVENTIONAL AND HYBRID VEHICLES FOR END-OF-LIFE VEHICLE MANAGEMENT
Shin-ichi Sakai, *Kyoto University, Japan*
- TWO METHODS FOR EVALUATING THE MATERIAL COMPOSITION OF BUILDINGS TO ALLOW PREDETERMINATION OF FUTURE DEMOLITION WASTES IN VIENNA
Fritz Kleemann, *Vienna University of Technology, Austria*

Wednesday 14:00 – 15:30

Session 50: Organic Waste

Chair: Marco Ricci

- BIOHYDROGEN, BIOMETHANE AND BIOELECTRICITY AS CRUCIAL COMPONENTS OF BIOREFINERY OF WASTES: A REVIEW
Paula Natalia Robledo-Narváez, *CINVESTAV, Mexico*
- MEASUREMENT OF RESPIRATION ACTIVITY (AT4) – COMPARISON OF 383 SAMPLES MEASURED BY SAPROMAT AND OXITOP
Erwin Binner, *University of Natural Resources and Life Science, Austria*
- IMPROVMENT OF DEGRADED SOIL BY MICROBIAL CARBONIZED SUBSTRATA
Claus-Robert Wonschik, *University of Applied Science Hochschule Harz, Germany*
- A MATERIAL FLOW ANALYSIS OF NUTRIENTS FROM SOLID WASTES TO DETERMINE THEIR POTENTIAL TO COPE WITH NEGATIVE SOIL NUTRIENT BALANCES IN UGANDA
Jakob Lederer, *Vienna University of Technology, Austria*

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Session 51: Advanced Thermal Treatment and Waste to Energy

Chair: Helmut Rechberger,

- LCA MODEL FOR WASTE INCINERATION WITH POSTERIOR METAL RECOVERY FROM COMBUSTION RESIDUES
Stefanie Hellweg, *ETH Zürich, Switzerland*
- BIOGENIC CARBON IN COMBUSTIBLE WASTE: WASTE COMPOSITION, VARIABILITY AND MEASUREMENT UNCERTAINTY
Thomas Astrup, *Technical University of Denmark, Denmark*
- FULL SCALE APPLICATION OF THE BALANCE METHOD: EXPERIENCES AND RESULTS
Christian Riber, *Ramboll, Denmark*
- CO₂ EMISSION REDUCTION BY USING BIOMASS BRIQUETTE AS A SUBSTITUTION FOR COKE AT HIGH-TEMPERATURE GASIFYING AND DIRECT MELTING FURNACE
Takuya Shinagawa, *JFE Engineering Europe GmbH, Germany*

Session 52: Panel-Discussion on Climate Change and Waste Management

Chair: Gary Crawford

A new mechanism is gaining momentum that demonstrates that governments can implement measures to reduce global warming while also helping developing countries to grow in a sustainable way. It is based upon a mechanism called NAMAs, which stands for Nationally Appropriate Mitigation Actions.

It is based on the approach that adapted policies and regulations can drive private sector investment in low-carbon technology. The Policy changes are also linked to financial mechanisms and at improving the attractiveness of the investments.

The Speakers in this session are key actors in the waste NAMA development and finance. They will highlight how this emerging initiative can work using concrete examples and solutions. They will present how finance from developed nations can be the catalyst for policy innovations and private sector investment. They will describe how they will overcome some of the identified barriers for these projects that will lead to the scaling-up of improved waste practices and technologies that reduce greenhouse gas emissions and contribute to other sustainable development benefits.

- INTRODUCTION
Gary Crawford, *Veolia / ISWA, France*
- NAMA DEVELOPMENT AS AN INNOVATIVE APPROACH: HOW TO SCALE-UP? WHAT ARE THE BARRIERS?
Ned Helme (tbc), *Center for Clean Air Policy, United States*

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- A COUNTRY EXAMPLE - COLOMBIA'S WASTE NAMA
Diana Milena Rodriguez Velosa, *Ministry of Environment, Colombia*
- HOW THE MITIGATION ACTIONS CAN BE FINANCED?
 - ADAPTED FINANCIAL INSTRUMENTS
Stephen Hammer, *World Bank, USA*
 - MOTIVATIONS FOR FINANCING MITIGATION ACTIONS
Franck Portalupi, *Environment Canada, Canada*
- COUNTRY ROLE – ESSENTIAL WASTE MANAGEMENT POLICY DRIVERS TO ADDRESS CLIMATE CHANGE
Atilio Savino, *ARS - Association for Solid Waste Studies, Argentina*

Session 53: Global Flows of Materials for Recycling

Chair: David C. Wilson

- THE DEPENDENCE OF PLASTICS RECYCLING ON GLOBAL MARKETS
Costas A. Velis, *University of Leeds, United Kingdom*
- IMPROVING PLASTICS RECYCLING IN EUROPE - THE CASE OF COPENHAGEN
Mette Skovgaard, *City of Copenhagen, Environmental Department, Denmark*
- THE DEPENDENCE OF PAPER RECYCLING ON GLOBAL MARKETS
Jeff Cooper, *ISWA Task Force-Globalisation and Waste Management, United Kingdom*
- WASTE TRAFFICKING
Bjorn Appelqvist, *ISWA Task Force-Globalisation and Waste Management, Denmark*
- A HOLISTIC TOOL TO TRACK MATERIAL FLOWS - MFA STAN MODEL
Jiao Tang, *TU Vienna and ISWA Task Force-Globalisation and Waste Management, Austria*

Session 54: Littering and Street Cleaning

Chair: Frans Willemse

- SELF EMPTYING LITTER BINS IN STOCKHOLM AND COPENHAGEN – FIRST YEARS' EXPERIENCES
David Jost, *Envac AB, Sweden*
- "REINWERFEN STATT WEGWERFEN" (TOSS IT IN THE BIN) – A VOLUNTARY INITIATIVE OF AUSTRIA'S BUSINESSES TO FIGHT LITTERING
Julia Huber, *Altstoff Recycling Austria AG, Austria*

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- THE USE OF DIGITAL RADIO AS A TOOL FOR TRACKING, MONITORING AND FINAL EVALUATION OF THE MANUAL SWEEPING IN THE CITY OF FLORENCE
Domenico Scamardella, *Quadrifoglio Spa, Italy*
- LITTERING – CHARACTERISTICS, REASONS, PREVENTION
Reinhard Beyer, *Humboldt-Universität zu Berlin, Germany*

Session 55: Emerging Technologies and Businesses in the Waste Management Sector

Chair: *Pariatamby Agamuthu*

- IMPLICATIONS OF ENGINEERED NANOMATERIALS AND NANOWASTE IN THE WASTE DISPOSAL AND TREATMENT SYSTEMS
Brajesh Dubey, *University of Guelph, Canada*
- CENTRALISED SEPARATION OF MIXED MSW BY THE USE OF ENZYMES
Jacob Wagner Jensen, *DONG Energy A/S, Denmark*
- PROBABILISTIC FATE ANALYSIS OF ENGINEERED NANOPARTICLES IN AN INCINERATION PLANT
Tobias Walser, *ETH Zurich, Switzerland*
- ENHANCEMENT OF SEPARATE COLLECTION OF HOUSEHOLD WASTE IN VIENNA: SOCIAL MILIEUS (SINUS-MILIEUS) AS TARGET GROUPS
Bertram Barth, *Integral Market Research, Austria*

Session 56: Waste Planning

Chair: *Carlos Silva Filho*

- HOW TO PREPARE A GOOD WMP – KEY ELEMENTS AND RECOMMENDATIONS
Vesna Milankov *BiPRO GmbH, Germany*
- THE ANALYSIS OF THE COMPOSITION OF GENEVA'S HOUSEHOLD WASTE FOR PLANNING PURPOSES
Alfonso Villegas, *Bureau d'ingénieur Villegas, Switzerland*
- EVALUATION CRITERIA FOR LOCAL SOLID WASTE MANAGEMENT PLANS – PROPOSAL BASED ON CASE STUDY: SMALL AND MEDIUM MUNICIPALITIES IN SERBIA
Hristina Stevanovic-Carapina, *University Educons, Serbia*
- TECHNOLOGY TRANSFER AND INFRASTRUCTURE DELIVERY – DON'T RECYCLE UK MISTAKES ...
David Lerpiniere, *Ricardo-AEA, United Kingdom*