FINAL

PROGRAM

by: Nemanja Stanisavljević, Goran Vujić, Andelka Mihajlov, Dušan Milovanović, Bojana Tot

ISWA World Congress
Novi Sad 2016
Serbia

Daily schedule is subject of change due to author availability
MONDAY / 19th of September

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<td>Circular Economy – the Need to Manage &amp;</td>
<td>Waste Management Case Studies Session I</td>
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<td>09:00 - 10:00</td>
<td>Higher Education and Knowledge Transfer in Waste Management</td>
<td>Landfill Leachate</td>
<td>Co-Processing - a Solution to Natural Resource Preservation and Responsible Waste Management Session I</td>
<td>Low Cost Bio-Waste treatment, Bio-Waste Management Local Approaches for a Global Issue</td>
<td>Waste Management in Developing and Transition Countries Session II</td>
<td>Good Governance – Good Legislation – the Key to Improving Waste Management</td>
<td>State-of-the-Art Solid Waste Management Life-Cycle Modeling Workshop North Carolina State University and Technical University of Denmark Room 8</td>
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<td>10:00 - 11:00</td>
<td>Policy and Legal Framework of Waste Management Session I</td>
<td>Solid Waste Treatment and Composting Technology as Successful Story to Reach EU Goals</td>
<td>Co-Processing - a Solution to Natural Resource Preservation and Responsible Waste Management Session II</td>
<td>A New Chapter in Hazardous Waste Management in Serbia</td>
<td>Case Study for Improving Waste Management in Developing Country - SWIS</td>
<td>Panel Good Governance with Participation of Members from SEE Parliaments</td>
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<td>Waste Management in Developing and Transition Countries Session III</td>
<td>Thermal Waste Treatment</td>
<td>Waste Collection Systems</td>
<td>Good Examples of Serbian Ministry Initiatives</td>
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<td>Waste Management Decision Support Models and Case Studies (MFA and LCA) Session I</td>
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# Wednesday / 21st of September

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<td>Waste Management &amp; Research Special Issue (WM &amp; R)</td>
<td>Recycling and Recovery, Resource Potential of Waste Session II</td>
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<td>How to increase public participation in the southeast European region</td>
<td>WEE, Hazardous and Special Waste Stream Management</td>
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<td>EEA Session European Environment Agency</td>
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**Closing Ceremony**

Andelka Mihajlov
Aleksandar Jovović
Fabio Fava
Antonis Mavropoulos

**Lunch**
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PLENARY SESSION
FORWARD TOGETHER: UNITING IDEAS FOR SUCCESSFUL WASTE MANAGEMENT AND RECYCLING

In a world where disruption becomes the rule and not the exception, waste management and recycling are already in a transition period. The rise of the fourth Industrial Revolution, the urgent need to mitigate Climate Change and the emergence of Circular Economy business models are creating a new rapidly changing landscape where innovation becomes a cornerstone for the waste management and recycling sector. What is the future of the industry within the fourth Industrial Revolution? How Climate Change agreements and funding boost innovation in waste management and recycling? Why Circular Economy makes communication a central element of each and every waste management activity? How can we practically intervene to deliver improvements in both developed and developing countries? What is the role of science in waste management and recycling and what should we expect from the scientific advances? Join us for a lively and inspiring discussion at the opening session of ISWA 2016 World Congress.

Monday / 10:30 - 13:30

WASTE MANAGEMENT IN AN ERA OF DISRUPTION
Antonis Mavropoulos

HOW CLIMATE CHANGE RESHAPES WASTE MANAGEMENT AND RECYCLING
Gary Crawford

IT’S ABOUT PEOPLE NOT WASTE
Timothy Bouldry

THE CONTRIBUTION OF SCIENCE IN WASTE MANAGEMENT AND RECYCLING
Agamuthu Pariatamby

COMMUNICATION AS A CORNERSTONE OF CIRCULAR ECONOMY
Ana Loureiro
A NEW CHAPTER IN HAZARDOUS WASTE MANAGEMENT IN SERBIA

Exchange of experiences, new techniques and trends in waste management and sustainable development leads to solutions for improvement of practice in transitional countries like Serbia, in order to reach the targets and standards that are already implemented world wide.

Moderators:
Jean Paul Leglise
Nevena Čolić Mohora

SESSION - Tuesday / 11:00 - 13:00 / Room 4

HISTORICAL WASTE AND HISTORICAL POLLUTION
(IMPROVEMENT OF BUSINESS AMBIENT FOR NEW INVESTORS, ESPECIALLY BROWN FILED INVESTMENTS)

REMOVAL OF POPS, PCBs FROM ENVIRONMENT

PRIVATE SECTOR INVOLVEMENT-OPPORTUNITY FOR ECONOMIC GROWTH
BIO-WASTE TREATMENT AND MANAGEMENT

Moderators:
Merih Kerestecioglu
Aleksandra Anić Vučinić

SESSION - Tuesday / 17:00 - 19:00 / Room 1

CONSTRUCTION OF A BIO-DIGESTER WITH ECO-BRICKS FOR THE USE OF WASTE OF COFFEE IN THE MUNICIPALITY OF BETULIA ANTOQUIA
A. F. Montoya Rendón, I. Osorio, J. Ortega

OPTIMIZED PARTIAL FLOW DIGESTION WITH INNOVATIVE PRODUCT GAS UTILIZATION IN BIOWASTE TREATMENT
A. Kainulainen, G. Christoph, K. Petri

ANALYTICAL PROCEDURES FOR VERIFICATION OF COMPOST QUALITY AND ENVIRONMENTAL ACCEPTANCE
G. Ferrari, G. Barulli, R. Ferrari, D. Felici

WASTE TO VALUE ADDED PRODUCT: CONVERSION OF BIOETHANOL FROM BIOMASS
S. H. Fauziah, S. Cheng, H. N. Khing

TOWARDS SUSTAINABLE COMPOSTING - RESEARCH ACTIVITIES IN ESTONIA
E. Haiba, L. Nei, M. Ivask, J. Peda, S. Kutti, M. Lillenberg

MASS STABILIZATION OF DREDGED SLUDGE AT VIALAND THEME PARK, ISTANBUL
C. Denayer, S. Atay, G. Van Rompaey, F. Ponchon
CASE STUDY FOR IMPROVING WASTE MANAGEMENT IN DEVELOPING COUNTRIES - SWIS

Moderators:
Sahadat Hossain
Bojan Batinić

SESSION - Tuesday / 11:00 - 13:00 / Room 5

WASTE MANAGEMENT IN DEVELOPING COUNTRIES:
THE CASE STUDY OF LEBANON
N. Kanso, S. Samir

CURRENT STATE OF SOLID WASTE MANAGEMENT IN MEXICO
V. L. Díaz-Archundia, E. Olay-Romero,
M. del C. Hernández-Berriel, S. Samir, M. S. Hossain

ENERGY GENERATION POTENTIAL USING
BIOCELL FOR ORGANIC WASTE MANAGEMENT:
A CASE STUDY IN BANGLADESH
N. Rahman, S. Samir, M. S. Hossain

DEVELOPMENT OF SUSTAINABLE
WASTE MANAGEMENT IN ETHIOPIA
F. Tsegaye, M. I. Hossain, A. Negare, A. Asfaw, M. S. Hossain

PERFORMANCE MONITORING AND EFFICIENCY
EVALUATION OF A BIOREACTOR LANDFILL IN TEXAS
Z. Alam, M. S. Hossain, S. Samir
CIRCULAR ECONOMY AS AN OPPORTUNITY TO IMPROVE WASTE MANAGEMENT - GIZ

A vision of circular economy as an opportunity for development of waste management will be analyzed during different sessions from the perspective of current trends in the EU and its implications for both developed and developing countries, specifically the region of South Eastern Europe (SEE). A focus will be given to the situation in Serbia, which often acts in the waste management sector as a role model for most countries of SEE. Into account will be taken the issue of bio-waste as one of the key elements in Circular Economy (CE), and special attention will be given to challenges and a role communication plays in the overall transition to Circular Economy. In all the sessions, the expertise and experiences from Germany, who started its first moves towards circular economy almost half a century ago, and has achieved remarkable results in the recycling sector will be taken into consideration.

Recommendations from all the sessions and discussions will be summarized at the end of the Congress in a Roadmap for transition to CE in WM for SEE countries.

Moderator:
Dušan Vasiljević

SESSION I - Tuesday / 09:00 - 10:00 / Room 6

CIRCULAR ECONOMY AND WASTE MANAGEMENT IN SERBIA: CURRENT STATUS AND APPROACHES
TBC / GIZ

SETTING THE FRAME: SERBIA IN THE CONTEXT OF CIRCULAR ECONOMY, WASTE FRAMEWORK TRANSPOSITION
Opening by Serbian Ministry of Economy, Ministry of Environment, BMZ, Chamber of Commerce

CHAMBER OF COMMERCE OF SERBIA - AN INITIATIVE FOR THE CIRCULAR ECONOMY STRATEGY DEVELOPMENT IN THE WASTE SECTOR
H. Wilts

THE TRANSITION TO CE IN WESTERN BALKANS AND SERBIA
M. Ilić

IMPLEMENTATION OF SUSTAINABLE WASTE RECYCLING SCHEME IN SERBIA: A CASE STUDY AND LESSONS LEARNED

* Translation to Serbian and Romanian or Hungarian language will be provided
SESSION II - Tuesday / 10:15 - 11:30 / Room 6

CIRCULAR ECONOMY WORLDWIDE - FROM EU TO LATIN AMERICA: POLICY REQUIREMENTS AND INTERNATIONAL EXPERIENCES
Moderator: Dušan Vasiljević

AN EU ACTION PLAN FOR THE CIRCULAR ECONOMY
J. Langendorff

GERMAN EXPERTISE FOR AN ADVANCED CIRCULAR ECONOMY: MODERN WASTE MANAGEMENT GOALS AND PATHS
German Development Cooperation

STRENGTHENING REGIONAL COOPERATION AND EXTENDED PRODUCER RESPONSIBILITY TO REDUCE MARINE LITTER IN SOUTH-EASTERN EUROPE AND THE CARIBBEAN
E. Gunsilius, H. Shutoski, P. Renaud, J. Frommann

THE CIRCULAR ECONOMY IN WASTE MANAGEMENT IN LATIN AMERICA
A. Savino

SESSION III - Tuesday / 11:45 - 13:00 / Room 6

BIO-WASTE: A KEY ELEMENT OF CIRCULAR ECONOMY APPROACH?
Moderator: Dušan Vasiljević

ORGANIC WASTE RECYCLING
A. Ochs

CHARACTERISATION OF THE CONTENT OF CELLULOSE ITEMS INSIDE FOOD-WASTE FROM SEPARATE COLLECTION
M. Centemero, D. Dell’Anna, G. Longu, M. Ricci M, B. Bonori, E. Farotto

THE CIRCULAR ECONOMY IN THE CITY OF HAMBURG WASTE MANAGEMENT
K. Kuchta

CIRCULAR ECONOMY AND RESOURCE MANAGEMENT - PERSPECTIVE EUROPE
R. Siechau

THE CITY OF MILANO CASE - RECOMMENDATIONS FOR THE CITY OF BELGRADE

STANDARDIZATION PROCESS FOR COMPOST QUALITY IN SERBIA
S. L. Rašović, M. Šašić, O. Antić, Z. Jakovljev, V. Čudić

CIRCULAR ECONOMY AS AN OPPORTUNITY TO IMPROVE WASTE MANAGEMENT - GIZ
Session IV - Tuesday / 14:30 - 16:30 / Room 6

Circular Economy Implications for Private Sector
Moderator: TBC / GIZ

Benefits of a Circular Economy for Companies
G. Crawford, Veolia

Towards a Waste Crisis in Emerging Countries: Impacts and Solutions
H. Saint-Bris

The Role of EPR in Moving Towards Circular Economy
C. Stiglitz

Panel discussion with selected private operators from SEE

Session V - Tuesday / 17:00 - 19:00 / Room 6

Communicating Circular Economy: Communication and Behavioural Change

The facts are known. In the next ten years the amount of waste on earth will increase with more than 70 percent, mostly in low and middle income countries. Almost half of the world’s population doesn’t have collection of household waste. A lot of the waste collected is not handled properly, and is put to open dumps, or in best cases put to an engineered landfill. The amount of e-waste is increasing rapidly. Waste and especially plastics are floating around in the rivers, ending up out in the sea and create islands of waste in the oceans. Still a lot has to be done to reach ISWAs vision - “A world where no waste exists”. This session will focus on how communication can play a role in changing people’s behavior, and how different stakeholders can be used to make a difference.

Note: The winner of the ISWA Communication Award will present the winning campaign

Moderator: C. Stiglitz

Successful Projects on Litter-Clearing and Waste Management in Social Media
Z. Lenkiewicz

Best Practices on Awareness Raising Campaigns on Separate Collection
M. Romenska

Resource Management – The Role of Communication on the ISWA Task Force
A. Loureiro

Reputation Management - A Complex and Continuous Process in Influencing the Way the Public Sees and Understands an Organization.
L. Uhri

Getting Recycling Right - Optimising Capture and Reducing Contamination: A Case Study from a Scottish Local Authority
N. Souter

GIZ Impact Videos - Students / Faculty of Drama Arts, University of Belgrade

* Translation to Serbian and Romanian or Hungarian language will be provided
CIRCULAR ECONOMY - THE NEED TO MANAGE & PHASE OUT HAZARDOUS CHEMICALS AND MATERIALS

Circular economy and urban mining are crucial for sustainable production and consumption. However, hazardous substances such as persistent organic pollutants (POPs) and other hazardous materials negatively impact recycling and recovery and are a risk for clean cycles. In this session particular challenges for a circular economy from hazardous chemicals and materials are discussed and also solutions are presented.

Moderators:
Roland Weber,
Paul H. Brunner

SESSION - Monday / 14:30 - 16:30 / Room 4

MANAGEMENT OF PCB STOCKPILES AND LESSONS LEARNED FOR CIRCULAR ECONOMY
T. Nakano, A. Watson, U. Wagner, B. Wijegunasekara,
S. Adu-Kumi, O. Osibanjo, R. Weber

WASTE TO ENERGY - KEY WASTE MANAGEMENT PROCESSES FOR CLEAN CYCLES AND SAFE FINAL SINKS TOWARDS A MORE CIRCULAR ECONOMY
L. Morf, D. Böni, S. Schlumberger, E. Kuhn, F. Adam

MANAGEMENT OF BROMINATED FLAME RETARDED WASTES IN THE UNITED STATES: TOWARDS A MORE CIRCULAR ECONOMY
D. Lucas, A. Blum, C. Koshland, R. Weber

SUSTAINABLE END OF LIFE SOLUTIONS FOR POP CONTAINING PLASTICS VIA DISSOLVING TECHNIQUE/ENERGY RECOVERY
L. Tange, M. Schlummer

SUSTAINABLE CHEMISTRY - A CONCEPT WITH BENEFICIAL LINKS TO WASTE MANAGEMENT
F. Henning

SOLID WASTE CONTAINING PERSISTENT ORGANIC POLLUTANTS IN SERBIA: FROM PRECAUTIONARY MEASURES TO THE FINAL TREATMENT
H. Stevanović-Čarapina, J. Milić, J. Ranđelović,
K. Krinutović, A. Jovović, Z. Brnjaš
Accordingly, when implemented, the Paris Agreement could help countries to unleash new investment flows and drive innovation. However, to date, one of the key barriers for implementing and scaling-up waste and resource management projects has been developing bankable projects and gaining access to financing. Opportunities exist: for example, in late 2015, multilateral development banks (MDBs) announced new ambitious multi-year targets to expand climate finance activities; developed Countries are taking action by providing support to developing Countries on GHG mitigation; the Green Climate Fund is now operational and has already approved mitigation and adaptation projects that will receive GCF funding. The challenge is in identifying the best financial modalities to realize these programs.

Moderator:
Gary Crawford
Session Goals:
Today’s session will provide an overview of the Post-COP 21 landscape, what is happening or could happen following the adoption of the Paris Agreement, describing:

- How the waste and resource management sector can contribute significant emission reductions

- How actions are already taking place through investments by MDBs and Donor Countries;

- How the Nationally Determined Contributions (NDCs) can be converted into concrete actions;

- How the Nationally Appropriate Mitigation Actions (NAMAs) can be used as an implementation tool for the NDCs;

- How cities are making a major contribution toward global progress on climate change

- How cities can gain access to financing for their waste infrastructure projects

The first part of the session will include 6 speakers covering the subjects listed below:

**SESSION I - Tuesday / 17:00 - 18:00 / Room 3**

**INTRODUCTION**
Gary Crawford

**WASTE AND RESOURCE MANAGEMENT: SIGNIFICANT EMISSION REDUCTION OPPORTUNITIES**
A. Schwetje

**MDBS: SCALING UP CLIMATE ACTION COMMITMENTS**
J. Michelson

**OPPORTUNITIES AND CHALLENGES IN DESIGNING AND IMPLEMENTING NATIONALLY APPROPRIATE MITIGATION ACTIONS (NAMAS) IN THE WASTE SECTOR**
S. David

**CITIES TAKING ACTION TO COMBAT CLIMATE CHANGE**
A. Sinha

**OVERCOMING BARRIERS TO CITY FINANCING OF MSW PROJECTS**
J. Gorelick

**SESSION II - Tuesday / 18:00 - 19:00 / Room 3**

**PANEL DISCUSSION**
The above referenced Speakers will reconvene for a panel discussion covering the subjects introduced as well as related topics.
CO-PROCESSING - A SOLUTION TO NATURAL RESOURCE PRESERVATION AND RESPONSIBLE WASTE MANAGEMENT

Co-processing is the use of waste as raw material, or as a source of energy, or both to replace natural mineral resources (material recycling) and fossil fuels (energy recovery) in industrial processes. The co-processing of waste in the cement industry provides a maximum substitution of non-renewable materials.

In these two sessions the following topics will be tackled:
- What makes co-processing unique?
- Why is energy recovery important?
- How did the cement industry become a good example showing how industry can initiate the transition towards a more sustainable and resource efficient development model?
- The sessions will explain what the cement industry has to offer in terms of helping achieve national circular economy goals.

Moderators:

SESSION I - Tuesday / 09:00 - 11:00 / Room 3
CO-PROCESSING IN SERBIAN CEMENT PLANTS - CONTRIBUTION, PLANS AND EXPECTATIONS
D. Milinković
HOW CAN THE CEMENT INDUSTRY CONTRIBUTE TO EU RECYCLING TARGETS?
K. Coppenholle
CO-PROCESSING CAPACITY IN EUROPE 2016
Holcim Lafarge’s representative

SESSION II - Tuesday / 11:00 - 13:00 / Room 3
CO-PROCESSING - ADDED VALUE BEST PRACTICES FROM TITAN CEMENT ALTERNATIVE FUELS
REGIONAL DIRECTOR SEE&EM
A. Nicolopoulos
CO-PROCESSING IN CIRCULAR ECONOMY
J. Aigner
FROM WASTE MANAGEMENT TO RESOURCE MANAGEMENT
A. Jovović
DEPOSIT OR NON-DEPOSIT SYSTEMS: CHALLENGES AND OPPORTUNITIES

The use of deposit systems for the return of items for re-use or later recycling has normally been associated with its use for beverage containers. Subsequently deposit-return systems have been used for a wide variety of items, including batteries and electrical and electronic equipment. However, while often beneficial there are many financial and environmental issues associated with the use of deposit systems and many businesses have stopped using them.

The session will focus on beverage containers deposit systems used in a number of European countries. You will hear from experts from a number of associations and authorities with direct experience of the social, economic and environmental issues associated with the debate over use of beverage deposit-return systems.

Moderators:
Jeff Cooper
Bjorn Appelqvist

SESSION - Monday / 14:30 - 16:30 / Room 7

THE CASE FOR DEPOSITS IN THE EU
D. Hogg

DEPOSIT SYSTEMS FOR BOTTLES AND CANS IN SWEDEN
W. Wiqvist

EPR PACKAGING SYSTEMS VERSUS DEPOSIT SYSTEMS – ALLIES OR FOES?
J. Quoden

DEBATING DEPOSIT-RETURN SYSTEMS IN THE NETHERLANDS
M. Goorhuis

THE DEPOSIT IN CROATIA
D. Petković

PANEL DISCUSSION ON ADVANTAGES AND PROBLEMS WITH DEPOSIT SYSTEMS FOR WIDER USE IN EUROPE
Informality in the value chains is recognised in so-called “developing countries” but there is little attention to the thousands of informal entrepreneurs in recycling and re-use in the old and new EU, and at its borders, including in pre-accession countries. A small group of global and European organisations are inviting informal recyclers and re-use operators from Serbia, Macedonia, France, Italy, Turkey, Romania, Bosnia, and other European countries, to discuss strategies for legalisation of their work, registration of their performance, and improvement of working conditions and access to markets.

The “round table” is a series of sessions on Tuesday and Wednesday, where informal recyclers, packaging compliance organisations, academics, semi-formal flea market operators, traders and dealers, waste management companies, and government representatives can discuss issues and develop approaches to co-operate rather than compete. This is important for reasons of equity - to give informal re-users and recyclers a clearer and better position, access to social safety nets and business services, and a legal basis for their operations – but also because the Circular Economy ambitions of the European Union stimulate more and better documented recycling, re-use, and prevention.

Because many informal recyclers and re-users have low literacy skills, some sessions will be documented on video to create a film record that can be shared after the Congress.

Moderators:
Anne Scheinberg
Jelena Nešić

* Translation to Serbian, Spanish and Romanian or Hungarian language will be provided
SESSION I - Tuesday / 14:30 - 19:00 / Room 4

PLENARY INTRODUCTIONS AND ISSUES
A. Scheinberg, J. Nešić

INDIVIDUAL INTRODUCTIONS

COUNTRY AND ORGANIZATIONAL INTRODUCTIONS

FRENCH BIFFINS: RECLAIMING THE RIGHTS TO AN INDEPENDENT PROFESSION
S. Lecoeur, L. Savu

RETE ONU: ASSOCIATION OF RE-USE OPERATORS IN ITALY
P. Luppi, S. Seydíc

SYNDICATE FOR COLLECTORS OF SECONDARY RESOURCES - SERBIA
S. Salijević, V. Jašarević, Z. Simić

ASSOCIATION OF RECYCLERS IN MACEDONIA
A. Toska

INCLUSIVE RECYCLING IN KOSOVO
K. Hoffman, T. Kabashi

ISHS - INTERNATIONAL SECOND-HAND SERVICE
J. Kozák

Plenary discussion:
WHAT ARE THE EXPECTATIONS, GOALS AND IDEAS FOR THIS ROUND TABLE?

SESSION II - Tuesday / 14:30 - 19:00 / Room 4

THE INFORMAL RECYCLING AND RE-USE SECTOR IN EUROPE AND BEYOND
J. Nešić, S. Gupta

Keynote:
ORGANIZING INFORMAL RECYCLERS BRINGS RESULTS!
COLOMBIAN NATIONAL ASSOCIATION OF RECYCLERS
N. Padilla, Sponsored by WIEGO, Workers in the Informal Economy, Globalising, Organising

Short cases and posters:
CO-OPERATIVES AS A DEVELOPMENTAL VEHICLE TO SUPPORT JOB CREATION AND ENTERPRISE DEVELOPMENT IN THE WASTE AND RECYCLING SECTOR
L. Godfrey, A. Muswema, W. Strydom, T. Mamafa, M. Mapako

INVISIBLE MARKETS – THE INFORMAL RECYCLING SECTOR IN BEIJING
R. Ramusch, B. Steuer, F. Part, S. Salhofer

ALUMINIUM RECYCLERS IN BUCHAREST: THE INVISIBLE AGENTS
F. Pop

THE INFORMAL WASTE SECTOR IN THE METROPOLITAN AREA OF PRISTINA, KOSOVO. POTENTIALS AND CHALLENGES FOR THE IMPROVEMENT OF THE SOCIO-ECONOMIC SITUATION OF WASTE PICKERS
T. Kabashi (presenting paper written by M. Mendonça)

* Translation to Serbian, Spanish and Romanian or Hungarian language will be provided
EUROPEAN INFORMAL SECTOR ROUND TABLE
INTERNATIONAL SOLID WASTE ASSOCIATION (ISWA)

INTEGRATION OF INFORMAL RECYCLING SECTOR IN BRAZIL AND THE CASE OF SOROCABA CITY
N. Lima

SOCIAL INTEGRATION: EXPERIENCES IN ZAVIDOVICÍ, BOSNIA AND HERZEGOVINA
M. Vaccari

THE ROLE OF INFORMAL RECYCLING IN ADVANCING RECYCLING IN S. EASTERN EUROPE: THE CASE OF GREECE
A. Bourtsalas

INCREASING RECYCLING RATES BY EMPOWERING THE INFORMAL SECTOR – A PILOT FOR PRISTINA
K. Hofman

PANEL OF INFORMAL RECYCLERS AND RE-USERS RESPONDS TO THE PAPERS AND POSTERS
S. Seydic

SESSION III - Wednesday / 09:00 - 13:00 / Room 2

FOCUS ON PACKAGING RECYCLING IN SERBIA
F. Pop, A. Eröztürk

INTRODUCTION TO THE SERBIAN PACKAGING DILEMMA
K. Cvejanov

Debate:
THE STICK OR THE CARROT: DEPOSITS, COMMAND AND CONTROL MEASURES, VS PRICE SUPPORTS AND SUBSIDIES

Note:
Candidates to be debaters please sign up at registration!

Panel presentations:
PACKAGING RECYCLING IN CROATIA
Lj. Petrović

PACKAGING RECYCLING IN BOSNIA
M. Mehic, N. Banovic

PACKAGING RECYCLING IN MACEDONIA
A. Toska

COOPERATIVES IN SOUTH AFRICA: NOT A PANACEA
L. Godfrey

LESSONS LEARNED BY CEVKO IN TURKEY
A. Eröztürk

LESSONS FROM THE EXPERIENCE OF THE SYNDICATE IN NIS
S. Salijevic

* Translation to Serbian, Spanish and Romanian or Hungarian language will be provided
SESSION IV - Wednesday / 09:00 - 13:00 / Room 2

LEGALISATION OF INDEPENDENT RECYCLING IN EUROPE:
THE WAY FORWARD
R. Ramusch, A. Scheinberg

Panel:
LEGALISATION AND INTEGRATION IN
THE EUROPEAN RE-USE SECTOR
P. Luppi, S. Seydic, M. Len, S. LeCoeur, L. Savu, N. Padilla

FORMATION OF AN AD-HOC WORKING GROUP ON
LEGALISATION OF INFORMAL RE-USE IN EUROPE

Panel:
CREATING AN WORKING GROUP ON
INFORMAL INTEGRATION AND LEGALISATION IN
THE EUROPEAN AND ACCESSION COUNTRIES
PACKAGING SECTOR

SESSION V - Wednesday / 09:00 - 13:00 / Room 2

FORMULATING AN EUROPEAN LEGALISATION AND
INTEGRATION AGENDA
A. Scheinberg, A. Eröztürk, F. Pop

* Translation to Serbian, Spanish and Romanian or Hungarian language will be provided
GOOD EXAMPLES OF SERBIAN MINISTRY INITIATIVES

Moderator: Dragana Mehandžić

SESSION - Tuesday / 14:30 - 16:30 / Room 5

CASE STUDY OF UZICE
CASE STUDY OF SUBOTICA
CASE STUDY OF PANCEVO
OTHER TBC

* Translation to Serbian and Romanian or Hungarian language will be provided
GOOD GOVERNANCE - GOOD LEGISLATION - THE KEY TO IMPROVING WASTE MANAGEMENT

How a good legislation for waste management is designed, starting from the involvement of all stakeholders when the ministry is drafting the proposal, how this good legislation is implemented and enforced and how shortfalls and loopholes could be solved, again involving affected stakeholders.

Moderator:
Joachim Quoden

PANEL DISCUSSION - Tuesday / 09:00 - 11:00 / Room 7

Peter Eek,
Estonian Ministry for Environment

Peter Börkey,
OECD

Veronica Vecchio / Julius Langedorff,
European Commission, General Secretariat

Russ Martin,
Global Product Stewardship Council

Dulce Álvaro Pásaro,
former Portuguese Minister for the Environment and Spatial Planning

* Translation to Serbian and Romanian or Hungarian language will be provided
GOOD GOVERNANCE WITH THE PARTICIPATION OF MEMBERS FROM SEE PARLIAMENTS

A draft law related to waste management enters the Parliament and is to be discussed – how will Members of Parliament (MPs) answer to the challenges of Parliamentary life. The law is adopted and the implementation starts, but is the role of MPs over?

How can MPs from different political options reach consensus, overcome their political differences and work together on improving waste management legislation and its implementation?

The key issue that this panel will tackle is how can MPs contribute in improving conditions in the waste management area and what kind of support would they need from different actors/interested stakeholders within the society.

Moderator:
Valentina Đureta

PANEL DISCUSSION - Tuesday / 11:00 - 13:00 / Room 7

Philip Heylen,
Vice Mayor for Culture, Economy, City Maintenance and Property Management for the City of Antwerp

Nada Lazić,
National Assembly of the Republic of Serbia

Liljana Popovska,
Assembly of the Republic of Macedonia

Mihael Zmajlović,
Croatian Parliament

* Translation to Serbian and Hungarian language will be provided
HIGHER EDUCATION AND KNOWLEDGE TRANSFER IN WASTE MANAGEMENT

The increasing complexity of waste management systems poses to be a big challenge for institutions of higher education and knowledge transfer. Traditional methods of conveying knowledge from an omniscient “sender” to a nescient “receiver” are questioned by both, cultural theories and daily practice. In this session, we want to pick up some case studies on knowledge transfer in waste management i) within higher education systems and ii) between different societies.

Moderators:
Jacob Lederer
Nemanja Stanisavljević

SESSION - Tuesday / 09:00 - 11:00 / Room 1

INTRODUCTION LECTURE
Paul H. Brunner

ADAPTING UNIVERSITY EDUCATION TO CHANGING REQUIREMENTS: A CASE STUDY ON CONSTRUCTION & DEMOLITION WASTE FROM AUSTRIA
J. Lederer, F. Kleemann, G. Kanitschar, A. Allesch, L. Auell, N. Stanisavljević, D. Laner, J. Fellner

RELEVANCE OF WASTE MANAGEMENT HIGHER EDUCATION FOR KNOWLEDGE TRANSFER IN TRANSITION COUNTRIES
N. Stanisavljević, J. Lederer

TRANSFERABILITY OF THE UK RECYCLING APPROACH TO OTHER EU MEMBER STATES
L. Crichton

FREE ONLINE SOLID WASTE MANAGEMENT COURSES - A DIGITAL REALITY TO EDUCATE TENS OF THOUSANDS WORLDWIDE
C. Zurbrügg

THE CHALLENGES OF WASTE MANAGEMENT EDUCATION FOR CIVIL ENGINEERING IN BRAZIL
A. P. Bortoleto

WASTE MANAGEMENT EDUCATION THROUGH DIRECT INVOLVEMENT IN THE MEASUREMENT OF IMPACTS
M. Fehr
A growing urbanization is seen worldwide. This has led to increasing quantities of municipal solid waste while space for its disposal decreases at the same time as the energy demand is increasing. Waste to energy facilities for treatment of municipal solid waste are found advantageous due to its sanitation of waste at the same time as energy is recovered in the form of electricity and heat/cooling and metals which cannot be collected by source separation due to composite products can be recovered from bottom ashes. Waste to energy facilities can be located in the city and be an integrated part of the architecture and hereby become an important part of a sustainable city and an integrated part of the social society.

Moderators:
Bettina Kamuk
Jorgen Haukohl

SESSION I - Monday / 14:30 - 16:30 / Room 1

TASK FORCE ON CIRCULAR ECONOMY - ENERGY RECOVERY’S ROLE IN A CIRCULAR ECONOMY
B. Kamuk

GUIDELINES FOR DECISION MAKERS ON WASTE TO ENERGY FACILITIES
J. Haukohl

GLOBAL WTE & STATUS QUO OF WTE WORLDWIDE, THE POTENTIAL IN DEVELOPING NATIONS
E. Kalogirou, N. J. Themelis, A. Bourtsalas

INCINERATION AS A SUSTAINABLE WASTE MANAGEMENT OPTION IN SOUTHEAST EUROPE
A. Nikolić, M. Mikić, Z. Naunović

METHANIZATION (HIGH - BTU) PROJECT AT LA FARFANA WASTEWATER TREATMENT PLANT
J. L. Davila, R. Viers, R. Quiroz

WASTE TO ENERGY FACILITY – GASIFICATION OR COMBUSTION, KEY DESIGN CRITERIA
N. Tanigaki

* Translation to Serbian and Romanian or Hungarian language will be provided
ISWA’S WORKING GROUP ON ENERGY RECOVERY - TECHNOLOGIES FOR ENERGY RECOVERY OF MUNICIPAL SOLID WASTE

Moderators:
Jorgen Haukohl
Zorana Naunovic

SESSION II - Monday / 17:00 - 18:30 / Room 1

CARBON FIBRE REINFORCED PLASTICS - AN UPCOMING CHALLENGE FOR WASTE MANAGEMENT
P. Quicker

ALTERNATIVE THERMAL TREATMENT FOR MUNICIPAL SOLID WASTE-TO-ENERGY PLANTS
C. Cord’Homme

A LONG TERM SELECTED AIR POLLUTANTS EVALUATION IN A SUSTAINABLE WTE PLANT: A SUCCESS STORY IN A SMALL SEASIDE CITY
A. Sakalis, E. Kalogirou, C. Salesa Mirabet, D. Argyropoulos

EVALUATION OF ALTERNATIVE FLY ASH MANAGEMENT CONCEPTS: A CASE STUDY FROM THE CITY OF VIENNA
F. Huber, D. Blasenbauer, J. Lederer, F. Winter, J. Fellner

WTE TECHNOLOGY SOLUTIONS - CAN THEY OFFER A Viable WASTE DISPOSAL OPTION IN EMERGING MARKETS?
J. D. Michelsen

* Translation to Serbian and Romanian or Hungarian language will be provided
LANDFILL ENGINEERING AND LANDFILL MINING

Landfill Engineering and Landfill mining

Landfilling remains to be an important and sustainable solid waste management practice in many parts of the world. Landfills need to be properly designed and constructed in accordance with the industry and local regulatory standards. Through careful feasibility study and engineering evaluation of a landfill that is running out of capacity, additional airspace can be gained by vertical expansion or optimizing of operation practice. Landfill mining for recovering of resources and other purposes can become important and a reality in some parts of the world in the near future.

Moderators:
Derek Greedy
Dejan Ubavin

SESSION I - Monday / 17:00 - 18:30 / Room 4

MULTI-CRITERIA DECISION ANALYSIS METHODS AS A DECISION SUPPORT TOOLS IN WASTE MANAGEMENT PLANNING - A CASE STUDY OF LANDFILL SITE SELECTION

SATELLITE-BASED PLANT SUPERVISION - GEOSPATIAL INFORMATION SYSTEMS (GIS) IN WASTE MANAGEMENT
M. Ragossnig - Angst, A. Ragossnig, D. Söderlindh

GEOM. CIRO FRISOLI & C. S.A.S.”’S PATENTED LANDFILL RETAINING STRUCTURES
D. Cocca

EXPANSION OF AN ACTIVE LANDFILL - A CASE STUDY
J. Law, A. Glenn, M. E. R. Nores, O. Lucero

LANDFILL MINING - DEVELOPMENT OF A HOLISTIC ASSESSMENT PROCEDURE
R. Hermann, T. Wolfsberger, R. Pomberger

ECONOMIC POTENTIAL ASSESSMENT FOR ENHANCED LANDFILL MINING
M. Van Acoleyen, S. Lambert
LANDFILL ENGINEERING AND LANDFILL MINING

Landfill Gas Utilisation and Remediation

Renewable green energy such as methane gas from the landfill plays an important role in countries where there is energy shortage and also to reduce greenhouse gas effects or carbon footprint. A more accurate gas model developed specifically for southeastern Europe to assist in methane utilization projects will be discussed.

Moderator:
James Law

SESSION II - Wednesday / 11:00 - 13:00 / Room 7

ASSESSMENT OF LFG POTENTIAL FROM NHW LANDFILL: AL-AMERAT LANDFILL CASE-STUDY
M. Lemunier, N. Brunel, A. L. Brenier, X. Lefebvre, S. Pommier, O. Oberti

THE EFFECTS OF BIODEGRADABLE WASTE DIVERSION ON LANDFILL GAS RECOVERY IN TURKEY
H. S. Altan, O. A. Arikan, I. Demir

A LANDFILL GAS MODEL TO ASSIST COUNTRIES IN SOUTHEASTERN EUROPE WITH PLANNING METHANE UTILIZATION PROJECTS
A. Stege

IMPROVEMENT OF QUALITY AND SAFETY OF LANDFILL OPERATIONS AND AFTERCARE - A CONTRIBUTION BY NEW MSS® LIMS PERMANENT MONITORING SYSTEMS
E. Geutebrück, W. Plach, Z. Samardžić

CERTIFICATION OF WASTE MANAGEMENT COMPANIES AS A RECOGNITION OF QUALITY WITH A FOCUS ON AUSTRIA
H. Stadler, W. Di Büchler
Water is a material which by its suitable treatment can close the loop of pluses and minuses of any East European municipal waste management system. Leachate management is one of the most important activities at a landfill facility and needs to be handled properly to avoid unnecessary contamination of the environment. It is a complex waste water that needs to be treated using proper technology that meets the regulatory and local standards. Leachate generation predicted from a mathematical model needs to be calibrated according to the actual leachate quantity collected at the facility. Diffusion of volatile organic compounds through composite landfill liner / system does occur and this aspect will be discussed in this session.

Moderator:
James Law
LOW COST BIO-WASTE TREATMENT

Bio-waste represents the largest fraction of municipal solid waste (MSW), especially in medium and low-income countries, where it can exceed 50% of the total waste production. The local authorities and municipalities in these countries face the economic challenge to make the diversion of bio-waste from mixed MSW and from landfills economically sustainable both in terms of collection and in terms of recycling. The session will be focusing on low-cost and partially low-tech solutions to minimize the costs for the collection of waste and its recycling into compost. The session will present decentralized solutions and highlight practical experiences (i.e. case studies).

Moderators:
Marco Ricci - Jürgensen
Jane Gilbert

SESSION I - Monday / 14:30 - 16:30 / Room 2

OVERVIEW ON BIOLOGICAL TREATMENT TECHNOLOGIES FOR BIOWASTE: COST, APPROACHES; GOALS IN EMERGING COUNTRIES
M. Ricci - Jürgensen

CONTRIBUTION OF HOME COMPOSTING TO CENTRALIZED BIODEGRADABLE WASTE TREATMENT IN SERBIA
L. Tomaš, S. Jokanović, L. Lepojević, J. Levis, N. Stanisavljević

DECENTRALIZED COMPOSTING: CASE STUDY IN LEINTZ-GATZAGA (GIPUZGOA)
J.S. Arizmendiarrrieta, R. Plana, A. Iso, I. Irigoyen

IMPLEMENTATION OF DIFFERENT MODELS FOR SEPARATE COLLECTION AND COMPOSTING OF ORGANIC WASTES IN TOURIST AREAS (SCOW PROJECT)
R. Plana, G. Nohales, M. Vila, M. Giavini

HOME COMPOSTING AND LOW-TECH COMPOSTING FACILITIES IN THE CITY OF SAO PAULO
G. Otero

ACTION RESEARCH IN CDM WASTE COMPOSTING PROJECTS: A CASE STUDY FROM UGANDA
J. Lederer, J. Karungi, F. Ogwang

* Translation to Serbian and Romanian or Hungarian language will be provided
LOW COST BIO-WASTE TREATMENT

Bio-waste management: Local approaches for a global issue

Bio-waste represents the largest fraction of municipal solid waste (MSW), and if not managed correctly it contributes significantly to environmental impacts such as GHG emissions, leachate and health issues. This session intends to give an insight into current experiences and practices from selected ISWA members joining from three continents, touching different aspects of planning and implementing bio-waste recycling.

Moderators:
Jane Gilbert
Marco Ricci - Jürgensen

SESSION II - Tuesday / 09:00 - 11:00 / Room 4

TACKLING RISING METHANE EMISSIONS AND WASTE GENERATION IN CHINESE CITIES
T. Frankiewicz, B. Guzzone, J. Carter

BIOWASTE TO BIOGAS, PRODUCTION OF ENERGY AND FERTILISER FROM ORGANIC WASTE
D. Wilken

TWELVE YEARS OF QUALITY ASSURANCE SYSTEM ON COMPOST PRODUCTION IN ITALY
A. Confalonieri, J. Campagnol, V. Brambilla, M. Centemero, M. Ricci

A CIRCULAR ECONOMIC APPROACH FOR THE MANAGEMENT OF ORGANIC SOLID WASTE
A. Cesaro, A. Conte, V. Belgiorno

ON-SITE TREATMENT OF FOOD WASTE AND WASTEWATER GENERATED AT A FRUIT AND VEGETABLE MARKET
C. Abou Khalil, S. Ghannimeh, T. Salha

EFFECTIVE SOLUTIONS FOR WASTE MINIMIZATION AND ENHANCEMENT OF RECYCLING BY APPLYING RFID PRODUCER IDENTIFICATION AND PAYT CHARGES - TWO ITALIAN AND CATALAN CASES
L. Torresan, M. Ricci
Few countries in the world have legally regulated the management of mining waste. In certain countries this sector is partially regulated. However, most countries have not yet adopted legislation in this area. Keeping in mind that technologies and methods for the remediation of sites, contaminated by inadequate or poor management of mining waste, are extremely costly. And that the impact on the environment is significant, importance and urgency for the regulation of this sector becomes evident.

Research for best and most cost-effective methods for treatment of mining waste and the introduction of legislation that fully covers this sector is a priority in the upcoming years for most countries that face this problem. Participants in the session are expected to share their experience in the management of mining waste, discuss and give suggestions and conclusions, which will contribute to swift and better resolution of the problems occurring in the mining industry resulting from uncontrolled and inadequate management of solid waste.

Moderator:
Milan Trumić

SESSION - Tuesday / 17:00 - 19:00 / Room 2

SILVER RECOVERY FROM ACIDIC THIOUREA SOLUTIONS BY CEMENTATION AND PRECIPITATION TECHNIQUES: AN EXPERIMENTAL INVESTIGATION
T. Angelov, T. Yankova, M. Ranchev, I. Valchanova, I. Grigorova, I. Nishkov

EXPERIMENTAL STUDY FOR NON-CYANIDE RECOVERY OF SILVER FROM ZINC CAKE RESIDUE
T. Angelov, T. Yankova, M. Ranchev, I. Valchanova, I. Grigorova, I. Nishkov

WASTE MANAGEMENT FROM MINERAL PROCESSING OPERATIONS: THE CASE OF PHOSPHATE ROCKS
G. Anastassakis

MINING AND USAGE OF ABANDONED MINES IN FUNCTION OF SUSTAINABLE DEVELOPMENT IN SERBIA
Lj. Andrić, M. Trumić, G. Bogdanović, M. S. Trumić

PRINTED PAPER RECYCLING WITH TONER SEPARATION BY DEINKING FLotation

SELECTIVE RECYCLING OF METALS FROM SPENT HYDRODESULPHURISATION CATALYSTS USING ENVIRONMENTALLY-FRIENDLY APPROACHES
H. Soares, I. S. S. Pinto, S. M. Sadeghi, N. E. Izatt

* Translation to Serbian and Romanian or Hungarian language will be provided
Healthcare waste is not a high volume, high profile waste stream. That is of course until it is found in the wrong place or causes harm to individuals or the environment. In this session, the work of the ISWA Healthcare Waste Working Group (HCW WG) will be highlighted and how we work with the World Health Organization. There will be an opportunity to gain an insight into how the European directives have been transposed into Serbian healthcare waste management strategy and practice as well as how the issue of out of date donated pharmaceuticals has been addressed. The ISWA HCW WG has been a partner in the Lifelong Learning Programme project, developing an EU standardized approach to vocational educational training awards in healthcare waste management. The results of this project will be presented by the project lead.

Moderator:
Anne Woolridge
POLICY AND LEGAL FRAMEWORK OF WASTE MANAGEMENT

Moderators:
Costas Velis
Marina Ilić

SESSION I - Tuesday / 11:00 - 13:00 / Room 1

POLICY AND LEGAL FRAMEWORK FOR SUSTAINABLE WASTE MANAGEMENT IN THE UNITED STATES
J. H. Skinner

UNLOCKING MEXICO’S ENERGETIC RECOVERY POTENTIAL FROM URBAN WASTE: INSTITUTIONAL AND POLICY CHALLENGES
E. Salinas, G. Baeza, N. Glorian, A. Zurita

BIOGAS FROM MSW IN BRAZIL: ADVANCES IN REGULATORY FRAMEWORK AND FIRST PRACTICAL EXPERIENCES
L. Costa, J. Giersdorf

WASTE AND CLIMATE EFFECT: FROM A LINEAR TO A CIRCULAR APPROACH
L. Umans

REGULATORY BARRIERS FOR THE CIRCULAR ECONOMY IN EUROPE – AN EMPIRICAL ANALYSIS IN KEY SECTORS
H. Wilts

TOWARDS A CIRCULAR ECONOMY: TRANSFORMATION OF WASTE MANAGEMENT IN OMAN
M. S. Al-Harthy
POLICY AND LEGAL FRAMEWORK OF WASTE MANAGEMENT

SESSION II - Wednesday / 09:00 - 11:00 / Room 7

DEVELOPMENT AND PUBLIC ACCEPTANCE OF ECONOMICALLY SUCCESSFUL INTEGRATION OF WASTE-TO-ENERGY IN AUSTRIA
F. Neubacher, A. Zschetsche

DEVELOPMENT OF THE NATIONAL EXTENDED PRODUCER RESPONSIBILITY REGISTER (NEP RR) OF THE HELLENIC RECYCLING AGENCY (HRA), GAINED EXPERIENCES AND THE EMERGING CHALLENGES
D. Podiotis, T. Charitopoulou, I. Gkitzeni, C. Apostolopoulos

STRATEGIES USED TO CLOSE 30 DUMPSITES IN PERU
A. Huiman

GOOD GOVERNANCE - GOOD LEGISLATION - THE KEY TO IMPROVING WASTE MANAGEMENT
H. Ambiente, A. Petrone

SOLID WASTE MANAGEMENT TRANSFORMATION INITIATIVES: MALAYSIAN ACHIEVEMENTS
M. Mentek, M. Zulkapli, M. P. M. Taha, M. A. H. Abas
PREVENTION OF HAZARDOUS WASTE

According to the waste hierarchy, waste prevention should be the top priority for EU and national waste policies, only followed by (preparing for) reuse, recycling, other recovery and disposal. Although the importance of waste prevention has been recognised in EU waste legislation since 1970s, it was formally introduced in the European legislation, the Waste Framework Directive (2008/98/EC) in 2008. The Directive has introduced a legal obligation for the EU Member States to adopt their national waste prevention programmes by the end of 2013. Provisions on waste prevention in the Directive are, among others, under review as a part of recently launched Circular Economy Package.

This session will focus on prevention of hazardous waste. Hazardous waste is of high concern due to the potential risks it poses to human health and environment if accumulated throughout different stages of value chain and if not managed properly. For that reason, it is subject to restrictive and extensive regulation, both in Europe and around the world. In the past decade, better regulation for identification, handling and management of hazardous waste was one of the top priorities of environmental policies. Yet, measures to prevent the generation of hazardous waste are still under development. The session will explore different points of view and experiences from variety of actors.

PANEL DISCUSSION:
Jasmina Bogdanovic, European Environment Agency
Peter Borkey, OECD
RECYCLING AND RECOVERY - RESOURCE POTENTIAL OF WASTE

Moderators:
Mario Russo
Gordana Stefanović

SESSION I - Monday / 17:00 - 18:30 / Room 6

CHEMICALS CYCLES IN SECONDARY PRODUCTION SYSTEMS: A CASE STUDY ON PAPER
D. Laner, K. Pivnenko, T. F. Astrup

RE-USE CENTRES IN FLANDERS: 20 YEARS OF EXPERIENCES
A. Vandeputte, V. Lemahieu

QUALITY OF TEXTILE WASTE: A CASE STUDY OF RESIDUAL HOUSEHOLD WASTE FROM ODENSE MUNICIPALITY, DENMARK
N. Nørup, A. Damgaard, K. Pihl, C. Scheutz

PROCESSING OF RESIDUES FROM WASTE INCINERATION FOR RESOURCE RECOVERY – RESOURCE POTENTIALS AND PROCESSING ROUTES
M. A. Ragossnig, J. Maier

ORC - ORGANIC RANKINE CYCLE TECHNOLOGY: A Viable Option to Turn Waste into Distributed Power, Heating, and Cooling
D. Albrigo

METAL AS A PERMANENT MATERIAL IN CIRCULAR ECONOMY
J. Kiš, S. Roesgen
RECYCLING AND RECOVERY - RESOURCE POTENTIAL OF WASTE

Moderators:
Renato Sarc
Goran Ristić

SESSION II - Wednesday / 09:00 - 11:00 / Room 3

THE CONTRIBUTION OF WASTE INCINERATION TO RECYCLING
W. Hauer, M. Merstallinger

TEXTILE WASTE MANAGEMENT IN PRATO DISTRICT:
COLLECTING MODELS AND TECHNOLOGICAL OPTIONS FOR
MATERIAL RECOVERY
C. Bessi, R. Meoni, A. Canovai, S. Casini, S. Nesti, G. Fabozzi,
R. Pagliocca, G. Tapparini

COAL SLUDGE PROCESSING AND
ADDITIVATION FOR FUEL RECOVERY:
INDUSTRIAL CASE IN EKO CARBO - JULIA WALBRZYCH
O. Kral, P. Hanzl

END-OF-LIFE TEXTILES: A CHALLENGING TYPE OF
WASTE WITH A LARGE POTENTIAL
A. Bartl

SUSTAINABLE SOLUTIONS FOR WASTE MANAGEMENT -
PRACTICAL CASE OF PORTUGAL (LIPOPOR)
S. Abreu, S. Sousa

SMART CIRCULAR CITIES: MANAGING WASTE FLOWS IN
AN INTEGRATED APPROACH WITH WATER AND ENERGY
C. Chevauche
SESSION III - Wednesday / 11:00 - 13:00 / Room 1

QUALITATIVE ANALYSIS OF MUNICIPAL SOLID WASTE IN ARMENIA, CROATIA, CYPRUS, FY.R.O.M. AND UKRAINE - METHODOLOGY AND RESULTS
G. C. Litas, T. Lolos, C. Tsompanidis, G. Lolos

A NEW METHOD TO DETERMINE THE BIOMASS CONTENT IN RDF - PRACTICAL APPLICATION AND COMPARISON TO STANDARDIZED METHODS
T. Schwarzböck, S. Spacek, P. Aschenbrenner, S. Szidat J. Eßmeister, J. Fellner

COST ACTION: MINING THE EUROPEAN ANTHROPOSHERE
U. Kral

CLOSING THE LOOP IN WASTE TONER RECYCLING PROCESS
A. Anic Vucinic, I. Melnjak, L. Radetica

ASSESSMENT OF COLLECTION SCHEMES FOR PACKAGING WASTE IN EU-28 MEMBER STATES AND CAPITAL CITIES
N. Seyring, M. Dollhofer, J. Weißenbacher, M. Herczeg, I. Bakas, D. McKinnon

STEINERT - SORTING SOLUTION FOR PRIMARY AND SECONDARY RESOURCES
B. Lövenich
RECYCLING AND WASTE MINIMISATION WORKING GROUP SESSION:
SUSTAINABLE SYSTEMS FOR RECYCLING RESOURCES

This session will focus on the issues to be addressed in designing and operating effective schemes for the recovery of household waste from collection to final processing. During the past few years the volatility of commodity prices has affected the value of materials collected by municipalities and the informal sector. The session will focus on the factors which enable successful recycling initiatives still to be developed: Good governance, appropriate collection methods, strong sorting and processing performance and reprocessing for high value end uses.

Moderators:
Bjorn Appelqvist
Mihail Mateski

SESSION - Monday / 17:00 - 18:30 / Room 7

INTRODUCTION
B. Appelqvist

TOWARDS 45% AND BEYOND? – THE CHALLENGE OF ENHANCING MATERIAL RECOVERY RATES IN THE CITY OF COPENHAGEN
B. Gottlieb

PLASTIC PACKAGING WASTE RECYCLING IN SERBIA: TRENDS AND TECHNOLOGIES, SOCIAL AND ECONOMIC IMPACT
M. Mateski

RECYCLING AND FLUCTUATING MARKETS FOR MATERIALS: THE US CASE
J. Skinner

ENHANCING MATERIAL RECOVERY IN BRAZIL – CHALLENGES AND OPPORTUNITIES
C. R. Silva Filho
REMEDICATION STRATEGIES FOR CLOSED LANDFILLS

Moderators:
Johann Fellner
Katerina Donevska

SESSION - Monday / 17:00 - 18:30 / Room 2

QUANTIFICATION OF COMPLETION TARGETS
H. Scharff, R. N. J. Comans, T. J. Heimovaara

IDENTIFICATION AND REMEDIATION OF OLD LANDFILL SITES IN AUSTRIA – LESSONS LEARNED AFTER 30 YEARS OF EXPERIENCE
G. Döberl

REMEDIATION AND REHABILITATION USING THE IN-SITU STABILISATION METHOD
J. Vostarek, V. Trenčev, Z. Formánek, F. Čejka, S. Božič

SPANISH SITE EXPERIENCES ON LANDFILL ENHANCED BIOSTABILIZATION: THE LEACHATE ROLE IN ACTIVE MANAGEMENT
J. Moreno Lampaya, C. García López

IN-SITU AERATION OF LANDFILLS – A PROMISING METHOD TO REDUCE ENVIRONMENTAL RISKS EMANATING FROM OLD WASTE SITES?
J. Fellner, Brandstätter, R. Prantl, D. Laner

FRAMEWORK FOR CLASSIFYING AND EVALUATING OLD LANDFILLS IN FLANDERS (PROJECT RECLAF)
A. Winterstetter, D. Laner, E. Wille, P. Nagels, H. Rechberger, J. Fellner
SOLID WASTE TREATMENT AND COMPOSTING TECHNOLOGY AS SUCCESS STORY TO REACH EU GOALS

Having in mind that Serbia and most of countries from the region are on their way to EU, this session will offer good examples from implemented project how is important to have serious technology and equipment in order to reach EU goals. Overview of recently finished regional waste treatment center in Ljubljana Slovenia.

Moderator:
Christian Kulmer

KEY NOTE SPEECH - Tuesday / 11:00 - 13:00 / Room 2
Christian Kulmer, Komptech

* Translation to Serbian and Romanian or Hungarian language will be provided
STATE-OF-THE-ART SOLID WASTE MANAGEMENT LIFE-CYCLE MODELING WORKSHOP

Proper management of solid waste is essential to minimize risks to human health and the environment. Solid waste contains significant quantities of recoverable materials and can be used for energy recovery, making solid waste management (SWM) a highly visible and potentially high-impact target for enhancing environmental sustainability. However, there are numerous competing alternatives for increasing environmental sustainability such as, recycling, energy recovery, and organics treatment. These potential alternatives must be systematically considered to ensure that SWM strategies cost-effectively protect human health and the environment. Life-cycle assessment (LCA) provides the necessary systematic framework for estimating the environmental impacts associated with alternative SWM processes and systems. Life-cycle process models that estimate emissions and resource use from solid waste unit processes (e.g., collection, composting, landfills) form the foundation of SWM LCAs. The objective of this workshop is to describe and discuss the state-of-the-art for modeling solid waste processes and to identify key research needs and areas for potential improvement. Each session will include a presentation on the state-of-the-art for a given process as well as time for questions, comments, and discussion.

Discussion topics include modeling of collection, material recovery facilities, combustion, offsets from remanufacturing, composting, anaerobic digestion, landfills and uncertainty management.

Moderators:
James W. Levis
Anders Damgaard

SESSION I - Tuesday / 09:00 - 13:00 / Room 8

INTRODUCTION TO SOLID WASTE LIFE-CYCLE MODELING
INTRODUCTION TO MODELS FOR SOLID WASTE LCA
COLLECTION AND SEPARATION
REMANUFACTURING AND SYSTEMS INTERACTIONS

SESSION II - Tuesday / 09:00 - 13:00 / Room 8

BIOLOGICAL TREATMENT (COMPOSTING, AD, USE-ON-LAND)
THERMAL TREATMENT AND RESIDUALS HANDLING
LANDFILLING
UNCERTAINTY AND SYSTEMS MODELING
Each country’s waste management system is specific, different and we ought to accept there’s long way before RDN members can get to the same level Western European countries are at today. Funds from European Union (EU) and World Bank are available but the projects should be implemented taking into consideration all the local particularities (culture, education, infrastructure, population affordability to pay for the services, etc). In this session you will get information about the present status of waste management in RDN region (achievements and failures) and future projects.

Note: members of RDN are BiH, Croatia, Greece, Hungary, Israel, Macedonia, Moldova, Romania, Serbia, Slovenia and Turkey.

Moderator:
Alexei Atudorei
Christophe di Marco
THERMAL WASTE TREATMENT

SESSION - Tuesday / 14:30 - 16:30 / Room 2

A LONG TERM SELECTED AIR POLLUTANTS EVALUATION IN A SUSTAINABLE WTE PLANT.
A SUCCESS STORY IN A SMALL SEASIDE CITY
A. Sakalis, E. Kalogirou, C. Salesa Mirabet, D. Argyropoulos

PRESENT STATE OF THERMAL TREATMENT OF MUNICIPAL WASTE AND INDUSTRIAL WASTE IN JAPAN
S. Okubo, N. Tanikawa, M. Sasaki, H. Murakami

CONTRIBUTION TO UNDERSTANDING THE CHLORINE TRANSFORMATION IN CEMENT PRODUCTION PROCESS
G. Vasić, N. Stanisavljević, S. Ignjatović, A. Milošević

PETROCHEMICAL SLUDGE TREATMENT: OPTIMIZATION OF THE THERMAL DESORPTION PROCESS TO OPTIMIZE THE TREATMENT COST AND MINIMIZE ENVIRONMENTAL IMPACT
S. Crevecoeur, R. Tuliga

ENERGY RECOVERY OF SOLID RECOVERED FUELS (SRF) IN THE INTERNATIONAL CEMENT INDUSTRY
R. Sarc, R. Pomberger, K. E. Lorber

PUBLIC-PRIVATE PARTNERSHIP FOR THE TREATMENT AND DISPOSAL OF MUNICIPAL SOLID WASTE OF THE CITY OF BELGRADE
F. Abramović
TIME AND NEED FOR CHANGES IN EPR SYSTEMS? - CURRENT STATUS, CHALLENGES AND PERSPECTIVES

New guidance on EPR from the OECD and the EU - Challenges in developed and developing countries

Since the late 1980s, the concept of “Extended Producer Responsibility” (EPR) has become an established principle of environmental policy in an increasing range of countries.

It aims to make producers responsible for the environmental impacts of their products throughout the product chain, from design to the post-consumer phase. With more than 400 EPRs in operation across the world, this approach is now being used by virtually all OECD countries as well as an increasing number of emerging economies.

While extended producer responsibility is a potentially powerful approach to improve resource efficiency and has shown some good results, EU experience shows that these schemes need to be carefully designed to deliver good results. As a consequence, OECD has been updating guidance for policy makers that was developed in 2001 and the European Commission has included guidance on the design of EPR in its recently released circular economy package. A number of emerging market economies are also grappling with the introduction or reform of EPR systems. This session will present and discuss some of the key guidance and experience that is coming out of these efforts, as well as the challenges for developed and developing countries. They keynote speeches will be followed by a panel discussion involving a number of stakeholders.

Moderator:
Joachim Quoden

Tuesday / 14:30 - 16:30 / Room 7

KEY NOTE SPEECHES:

Peter Börkey,
OECD, presenting the updated guidelines on EPR from OECD

Julius Langendorff,
European Commission

Carlos Silva,
Brazilian Association of Public Cleaning and Special Wastes Companies

PANEL DISCUSSION WITH:

Pascal Gisleis,
France, President of Valorie

Adin Ionescu,
Romania, General Manager of Eco Pack Management

Violeta Belanović Kokir,
SEKOPAK SERBIA representative

Steve Claus,
Special Advisor, Fost Plus

* Translation to Serbian and Romanian or Hungarian language will be provided
YOUNG PROFESSIONALS GROUP - WORKSHOP

The objective of this session is to identify smart solutions for increasing public participation in waste management for 2 different cases from the Southeast European Region, providing inspiration and motivation to participants in a highly interactive environment. Each table will take a different perspective on the case (private sector, public sector and non-governmental sector).

The session consists of two sub-sessions: first, a workshop style session where participants actively participate in discussions which identify smart solutions to bridge gaps and then, formulate concrete project ideas.

The workshop will be moderated by YPG members. Followed by and in conjunction with the Session: Young Professionals Group PANEL DISCUSSION

Moderators: Gijs Langeveld Nathalia Lima

Tuesday / 14:30 - 16:30 / Hotel Park
YPG WORKSHOP WITH LIMITED SEATS - HOW TO INCREASE PUBLIC PARTICIPATION IN THE SOUTHEAST EUROPEAN REGION
How to Increase Public Participation in the Southeast European Region

The objective of this panel is to present project ideas that participants produced during the workshop and discuss with highly experienced panel members, one representing each perspective (private sector, public sector and non-governmental sector).

A high-level panel discussion following the workshop, made up of high-level representatives of the government, international development, senior waste professionals, etc. and representatives from the workshop session. Concrete project ideas will be presented, followed by a panel discussion on these project ideas and on the overall results of the previous workshop session. Five high level panel members will be attending:

Moderator:
Gijs Langeveld

Wednesday / 09:00 - 11:00 / Room 5

PANEL DISCUSSION:
H. Klein, The Netherlands
A. Atudorei, Romania
M. Mitrović, Serbia
G. Carlsson, Sweden
J. Tang, Austria
SESSION - Tuesday / 14:30 - 16:30 / Room 3

SEPARATE COLLECTION OF RECYCLABLES IN HELSINKI, FINLAND
K. Koivunen, P. Kouvo, A. Kainulainen

URBAN WASTE MANAGEMENT SYSTEMS
L. Capão, N. Pedroso, M. Bonnet, V. Sequeira, R. Castelhano, J. Margarida, S. Pires, V. Castro

STORAGE OF RESIDUAL WASTE BEFORE COLLECTION
T. Gladding

SEPARATE COLLECTION IN EMERGING COUNTRIES: QUANTITATIVE AND QUALITATIVE DATA OBTAINED FROM PRACTICAL PILOT PROJECTS IN SANTIAGO DE CHILE - DIFFICULTIES, LESSONS LEARNED AND RECOMMENDATIONS
C. Wallbaum, A. Smythe, A. Arias, G. Cáceres

METHODOLOGY FOR WASTE COLLECTION IN RURAL AREAS: EXPERIENCES FROM PROJECT “SOLID WASTE MANAGEMENT IN CROSS-BORDER RURAL AND COASTAL AREAS OF SOUTH EASTERN EUROPEAN REGION”
I. Ristovski, A. Petrovska

MULTI-MATERIAL BINS - A NEW APPROACH FOR EXTENDED RECYCLING OF HOUSEHOLD WASTE
S. Salhofer, S. Pötschacher
Informal Sector / Health and Waste Management

The management of waste has an impact on public health; therefore basic waste management infrastructure in terms of waste collection and sanitary landfilling is to be implemented as a first step in waste management evolution. Furthermore, actors who already take care of waste management in one way or the other, who are not yet part of a formalized waste management system - the so-called informal actors - need to be recognized and integrated into the formal waste management system. Clear and well-defined rules need to be established in order to enable a level playing field for all parties involved.

Moderators:
Arne M. Ragossnig
Aleksandar Jovović

SESSION I - Wednesday / 09:00 - 09:40 / Room 1

FROM COLLISION TO COLLABORATION: FACILITATING INCLUSIVE RE-USE AND RECYCLING IN THE EUROPEAN UNION AND ACCESSION COUNTRIES
A. Scheinberg, J. Nešić, R. Savain, F. Pop, F. Petean, P. Luppi, P. Sinnott

RESOURCE RECOVERY FROM WASTE BY ROMA IN THE BALKANS: A CASE STUDY FROM ZAVIDOVIĆI (BIH)
M. Vaccari, A. Perteghella

SEROPREVALENCE OF HEPATITIS B AND C AMONG DOMESTIC AND HEALTHCARE WASTE HANDLERS IN BELO HORIZONTE, BRAZIL
M. Mol, J. Gonçalves, E. Silva, C. Scarponi, D. Greco, S. Cairncross, L. Heller

A STEADY STATE MODEL OF AGRICULTURAL WASTE PYROLYSIS
M. Trninić, A. Jovović, D. Stojiljković
Waste Management - Transition

Once basic waste management infrastructure is in place and clear rules are defined the foundation for public health – as far as it can be influenced by the waste management sector – is established. In that phase the focus of waste management may shift to issues linked to the resource recovery from waste. In this stage a broader involvement of the citizens is needed in order to enable the realization of effective resource recovery solutions such as separate collection systems.

Moderators:
Arne M. Ragossnig
Aleksandar Jovović

SESSION II - Wednesday / 09:40 - 10:20 / Room 1

USING MULTI-CRITERIA DECISION-MAKING FOR SELECTION OF THE OPTIMAL STRATEGY FOR MUNICIPAL SOLID WASTE MANAGEMENT
S. Jovanović, S. Savić, N. Jovičić, G. Bošković, Z. Đorđević

SUSTAINABILITY ASSESSMENT AND COMPARISON OF WASTE MANAGEMENT SYSTEMS: THE CITY OF SOFIA AND NIŠ CASE STUDIES
B. Milutinović, G. Stefanović, V. Kyoseva, D. Yordanova, I. Dombalov

FINANCIAL IMPLICATIONS OF COMPLIANCE WITH EU WASTE MANAGEMENT GOALS: FEASIBILITY AND CONSEQUENCES IN TRANSITION COUNTRIES
V. Mihajlović, G. Vujić, N. Stanisavljević, B. Batinić

RESULTS OF FIBRE AND TONER FLOTATION DEPENDING ON OLEIC ACID DOSAGE
M. S. Trumić, M. Z. Trumić, B. Vujić, Lj. Andrić, G. Bogdanović
Waste management - optimization

In this phase of waste management evolution the waste management sector has become a fully recognized sector in the economy at eye level with the production sector providing valuable resources for it. Technological solutions need to be optimized and automatized. Questions like ‘How much recycling is needed?’, ‘What counts as recycling?’, ‘What extent of recycling is sustainable?’ and ‘What form of recovery is to be preferred?’ need to be answered, the regulatory framework and the markets conditions must be adapted in order to allow for the societal optimum defined as an answer to these.

Moderators:
Arne M. Ragossnig
Aleksandar Jovović

SESSION III - Wednesday / 10:30 - 11:00 / Room 1

MINI-REVIEW OF THE MECHANICAL PARAMETERS OF MUNICIPAL SOLID WASTE: PRE-TREATED VS. POST-TREATED WASTE
I. Petrović

WASTE FLOW ANALYSIS AND LCA OF INTEGRATED WASTE MANAGEMENT SYSTEMS AS PLANNING TOOLS: APPLICATION TO OPTIMISE THE SYSTEM OF THE CITY OF BOLOGNA
S. Tunesi, S. Baroni, S. Boarini

TOWARDS MORE SUSTAINABLE MANAGEMENT OF EUROPEAN FOOD WASTE: METHODOLOGICAL APPROACH AND NUMERICAL APPLICATION
S. Manfredi, J. Cristobal
WASTE MANAGEMENT CASE STUDIES

SESSION I - Monday / 14:30 - 16:30 / Room 5

USE OF THE ECONOMIC POTENTIAL OF THE WASTE MANAGEMENT SYSTEM IN HUNGARY
Z. Szabó

INTELLIGENT DISASSEMBLY OF COMPONENTS FROM PRINTED CIRCUIT BOARDS TO ENABLE RE-USE AND MORE EFFICIENT RECOVERY OF CRITICAL METALS
B. Kopacek

HOAX BUSTING CONCERNING WASTE-TO-ENERGY PLANTS FOR EMERGING COUNTRIES
C. Cord’Homme, F. Matos

EURITEH AND THE STATE OF THE ART TECHNOLOGIES USED FOR WASTE MANAGEMENT IN ROMANIA
B. Besu

REUSE NOTEBOOK – COLLECTION, REFURBISHMENT AND DISTRIBUTION SYSTEM (RUN)
J. Wolf, R. Brüning

CORN FORAGE TREATMENT BY T. VERSICOLOR IN A TRAY BIOREACTOR
M. Planinić, B. Zelić, I. Ćubel, A. Bucić-Kojić, M. Tišma
Session II – Monday / 17:00 -18:30 / Room 5

DIGESTION OF BIOWASTE AND BIOLOGICAL FRACTION OF MUNICIPAL SOLID WASTE
C. Dornack

PROGRESS OF CIRCULAR ECONOMY DEVELOPMENT IN CHINA
J. Li, L. Liu

SOLID WASTE COLLECTION AND DISPOSAL IN THE UNITED STATES: TRENDS, CHALLENGES AND PREDICTIONS
D. Biderman

BALANCED SCORECARD APPLICATION IN WASTE MANAGEMENT STRATEGIC MUNICIPAL SOLID URBAN
E. L. C. Martins

BENCHMARKING OF SOLID WASTE MANAGEMENT IN SOUTH EAST EUROPE
S. Midžić Kurtagić, I. Silajdžić, B. Ivanovski, M. Gluščević

TOWARDS A CONCERTED APPROACH TO PHYSICAL RESOURCE MANAGEMENT
J. Singh, B. Frostell
WASTE MANAGEMENT CASE STUDIES

Session III – Tuesday / 14:30 -16:30 / Room 8

ECONOMIC AND ENVIRONMENTAL BENEFITS OF LANDFILL GAS UTILIZATION IN OMAN
M.F.M. Abushammala, W. A. Qazi, M.H.Azam, U. A. Mehmood, G. A. Al-Mufragi, N.A.Alrawahi

IDENTIFICATION OF THE WORLD’S 50 BIGGEST DUMPSITES
A. Mavropoulos, C. Velis, N. Mavropoulou, M. Tsakona

SUSTAINABLE CONSTRUCTION AND DEMOLITION WASTE

MANAGEMENT IN BUENOS AIRES CITY, ARGENTINA
M. F. Tufaro, J. M. Berdugo, S. Contrera, R. O. Bielsa

THE DEVELOPMENT OF MODERN WASTE MANAGEMENT IN A STAGE MODEL
U. Gelbmann, H. Klampfl-Pernold

FILTRATION PERFORMANCE CHARACTERISTICS OF V-BANK ELECTRET DEPTH FILTER MODULE FOR REMOVAL OF NANOPARTICLES FOR APPLICATION OF NANO-PRODUCT MANUFACTURING INDUSTRIES
Young-Ok Park, Naim Hasollia, Kang-San Leea, Jung-Ho Hwang

THE MANAGEMENT OF HYGIENE AND CLEANING PRODUCTS PACKAGING WASTE
Ž. Vranjanac, D. Spasić, M. Al Namura, D. Pejčić
WASTE MANAGEMENT CASE STUDIES

**Session IV - Tuesday / 17:00 -19:00 / Room 8**

**AGRICULTURE PRODUCE SURPLUS MANAGEMENT - REDUCTION OF WASTE, MEANS TO SUSTAINABILITY AND FOOD SECURITY**
O. Ayalon, T. Eshet

**INTEGRATIVE MODEL OF POLITICAL AND INSTITUTIONAL COMPROMISE FOR THE EFFECTIVE IMPLEMENTATION OF THE GIRSU PROGRAMS (COMPREHENSIVE MANAGEMENT OF URBAN SOLID WASTE)**
D. Barcia, D. Tufrô

**LANDFILL MINING CAUSED BY FLOOD PROTECTION: DISMANTLING AND REMOVAL OF A FORMER DUMPSITE**
M. Steiner

**ADDRESSING BARRIERS FOR THE INTRODUCTION OF CIRCULAR ECONOMY AND SUSTAINABLE RESOURCE MANAGEMENT**
B. Appelqvist

**MOVING FROM CURRENT SOLID WASTE MANAGEMENT PRACTICES IN THE WESTERN BALKANS TO EU STANDARDS: ROADMAPS FROM A EUROPEAN COMMISSION STUDY**
D. Hogg, T. Elliott

**A COMPARISON OF MIXED HOUSEHOLD MUNICIPAL SOLID WASTE COLLECTION AND RECYCLING SYSTEM AND SOURCE SEPARATE COLLECTION OF RECYCLABLES**
V. Kovacevic
WASTE MANAGEMENT DECISION SUPPORT MODELS AND CASE STUDIES (MFA AND LCA MODELS)

Moderators:
David Laner
Nemanja Stanisavljević

SESSION I - Tuesday / 17:00 - 19:00 / Room 5

DESIGN FOR INCLUSIVITY: PLANNING AND DESIGN FACTORS TO FACILITATE INFORMAL INTEGRATION IN SUSTAINABLE MATERIALS MANAGEMENT
A. Scheinberg, J. Nešić, M. Gadgil, P. Noë

WASTE AND RESOURCE MANAGEMENT: THE SINK APPROACH OF THE CANTON ZURICH
E. Kuhn, U. Kral, D. Vyzinkarova, P. H. Brunner, F. Adam, B. Stäubli, L. S. Morf

COMPARATIVE GREENHOUSE GAS EMISSION AND ENERGY ASSESSMENT OF MUNICIPAL WASTE MANAGEMENT SCENARIOS FOR THE CITIES OF BRASILIA AND SAO PAULO, BRAZIL
F. Contreras, R. M. Mendes, J. Portugal-Pereira

GENERAL APPROACHES TO THE CHOICE OF OIL AND GAS DRILLING WASTE MANAGEMENT TECHNOLOGIES
N. Sliusar, G. Ilinykh

SELECTING APPROPRIATE ORGANIC WASTE TREATMENT OPTIONS IN THE PHILIPPINES
I. Zabaleta, C. Zurbrügg, L. Scholten

WASTE MANAGEMENT ALTERNATIVES AND FUTURE TRENDS
P. Fernández Oyón, R. Sagarduy
WASTE MANAGEMENT DECISION SUPPORT MODELS AND CASE STUDIES (MFA AND LCA MODELS)

SESSION II - Tuesday / 17:00 - 19:00 / Room 7

DEVELOPMENT OF A COMPREHENSIVE DECISION SUPPORT TOOL (FLAMINCO) FOR ENHANCED LANDFILL MANAGEMENT AND MINING (ELFM²)
T. Behets, G. Engelen, K. Vermeiren, E. Wille

ENVIRONMENTAL IMPACT OF A CONVENTIONAL LEATHER CHILD’S SHOE COMPARED TO AN ECO-FRIENDLY ONE
G. Obersteiner

QUANTIFYING PLASTIC FLOWS AND PROCESSES IN AUSTRIA
E. Van Eygen, J. Feketitsch, D. Laner, J. Fellner

FROM WASTE TO RESOURCE MANAGEMENT - CLOSING THE LOOP IN WASTE MANAGEMENT SYSTEM
N. Cudecka-Purina

MARKET DEVELOPER - WASTE MANAGEMENT
S. Mambretti

EVALUATION OF ENVIRONMENTAL PERFORMANCE OF VALORIZING FOOD WASTE TO BIOGAS FOR DIFFERENT ENERGY USES IN HONG KONG USING BIN-TO-CRADLE LCA
S. L. H. Chiu, K. S. Woon, I. M. C. Lo

REGIONAL MODEL FOR PHARMACEUTICAL WASTE MANAGEMENT BASED On THE ATC CLASSIFICATION
S. Hristov, G. Ristić, A. Đorđević

Moderators:
Dejan Ubavin
Carlos R. V. Silva Filho
SESSION III - Wednesday / 11:00 - 13:00 / Room 5

ASSESSING VALUE CHAIN PERFORMANCE IN A CIRCULAR ECONOMY
D. Nelen, K. Vrancken

LMDI ANALYSIS OF MUNICIPAL WASTE GENERATION AND MANAGEMENT IN 21 CROATIAN COUNTIES
P. Korica, D. Požgaj, A. Cirman, A. Žgajnar Gotvajn

ECO-EFFICIENCY ASSESSMENT AND RETROFIT OF FOOD WASTE MANAGEMENT OPTIONS COMBINING DATA ENVELOPMENT ANALYSIS AND LIFE CYCLE ASSESSMENT
J. Cristobal, P. Limleamthong, S. Manfredi, G. Guillén-Gosálbez

A DECISION SUPPORT SYSTEM TO EMPOWER LOCAL AUTHORITIES IN WASTE MANAGEMENT AND FOSTER THE TRANSITION TOWARDS A CIRCULAR ECONOMY
F. Bernocchi, S. Nanni, F. Orio, F. Montirolì, C. Sander Longo

EXPERIENCES WITH GRADUAL IMPLEMENTATION OF WASTE MANAGEMENT SYSTEM IN THE GROUP OF MUNICIPALITIES OF TREBIC DISTRICT, CZECH REPUBLIC
O. Fiser

CHOOSE THE MOST SUITABLE URBAN WASTE DISPOSAL SYSTEM WITH ENERGY RECOVERY THROUGH LIFE CYCLE ASSESSMENT APPROACH
E. Fataei, Z. Samenezhad
WASTE MANAGEMENT IN DEVELOPING AND TRANSITIONING COUNTRIES

Moderators:
Hristina Stevanović Čarapina

SESSION I - Monday / 14:30 - 16:30 / Room 6

QUANTITATIVE OPTION ANALYSIS FOR IMPLEMENTATION AND MANAGEMENT OF REGIONAL LANDFILLS
M. Kerestecioglu

WASTE-TO-ENERGY - A FRAMEWORK FOR DECISION MAKERS
D. Mutz, J. Frommann, D. Hinchliffe, D. Hengevossa

JABALPUR - THE FIRST ENERGY-FROM-WASTE PLANT IN ONE OF THE MAJOR CITIES OF THE MADHYA PRADESH STATE IN INDIA
P. Chromec, S. Escudero

THE PERSPECTIVE OF WTE DEVELOPMENT IN UKRAINE
T. Omelianenko

ECONOMIC ASPECTS OF WTE PLANTS IN DEVELOPING AND TRANSITION COUNTRIES: THE BRAZILIAN PERSPECTIVE
A. C. Zuffo, S. A. Lucke

THE POZNAŃ PUBLIC-PRIVATE PARTNERSHIP: AN EXAMPLE OF STRUCTURING AND FINANCING AN ENERGY-FROM-WASTE PROJECT IN CEE COUNTRIES
S. Heddesheimer
WASTE MANAGEMENT IN DEVELOPING AND TRANSITIONING COUNTRIES

SESSION II - Tuesday / 09:00 - 11:00 / Room 5

ANALYSIS OF THE SOLID WASTE MANAGEMENT MARKET IN THE MIDDLE EAST - A METHODOLOGICAL APPROACH
A. Rotaru, L. Martin, L. Streff, K. S. Nassar

ENVIRONMENTAL AND SOCIAL APPRAISAL AND DUE DILIGENCE OF SOLID WASTE MANAGEMENT PROJECTS IN TRANSITION COUNTRIES
E. Yildiz

MUNICIPAL WASTE MANAGEMENT IN EMERGENCIES: LESSONS LEARNED FROM SYRIA AND YEMEN
O. Forni, R. Salemdeeb, M. Bjerregaard, A. Short

ASSESSMENT OF ECONOMIC INSTRUMENTS FOR COUNTRIES WITH LOW MUNICIPAL WASTE MANAGEMENT PERFORMANCE - AN APPROACH BASED ON THE ANALYTIC HIERARCHY PROCESS
M. Kling, N. Seyring, P. Tzanova

REVIEW AND OUTLOOK OF MUNICIPAL SOLID WASTE MANAGEMENT IN CHINA
J. Wang, J. Liu, L. Tong, C. Liu, C. Xu, L. Zhong

A CREATIVE SOLUTION TO E-WASTE MANAGEMENT IN DEVELOPING COUNTRIES
D. Tufró, D. Barcia

Moderators:
Atilio Savino
WASTE MANAGEMENT IN DEVELOPING AND TRANSITIONING COUNTRIES

Moderators:
Luis Marinheiro
Nemanja Stanisavljević

SESSION III - Tuesday / 14:30 - 16:30 / Room 1

BANANA PLANTATIONS AND THEIR PLASTICS
S. Van Den Berg

MUNICIPAL SOLID WASTE TRACEABILITY IN THE LIGHT OF CIRCULAR ECONOMY
M. G. Ghinea

WHAT IS COMING ABOUT COLOMBIA’S WASTE MANAGEMENT?
M. Correal

ENERGY VS GREENHOUSE GAS EMISSIONS FROM LANDFILLS IN SERBIA
G. Ristić, A. Đorđević, J. Radosavljević, A. Božilov, A. Milošević

WASTE MANAGEMENT IN DEVELOPING AND TRANSITION COUNTRIES
F. Mammadov

FISHING IN THE SEWAGE: FISHERY MODELS AND SANITATION IN BRAZIL
V. Giacomelli Sobrinho
WASTE MANAGEMENT IN DEVELOPING AND TRANSITIONING COUNTRIES

Moderators:
Helmut Stadler
Nebojša Vraneš

SESSION IV - Wednesday / 09:00 - 11:00 / Room 4

GEOPHYSICAL INVESTIGATIONS AT MUNICIPAL SOLID WASTE LANDFILL JAKUŠEVC
S. Strelec, J. Jug, D. Stanko, M. Gazdek, A. Anić Vučinić

MANAGING WASTE IN INDIAN MEGACITIES – EXAMPLES OF ALTERNATIVES TO TRADITIONAL WASTE MANAGEMENT PRACTICES
N. Damodaran, J. Donahue, S. Ganguli, T. Frankiewicz

NOT IN MY BACKYARD: A STATUS OF SOLID WASTE MANAGEMENT IN INDIAN CITIES
S. Sambyal Singh

DEMOLITION WASTE IN DEVELOPING COUNTRIES AND THE RELATIONSHIP WITH THE CARBON FOOTPRINT AND ENERGY EFFICIENCY
L. Neirotti

TOWARDS A WASTE CRISIS IN EMERGING COUNTRIES: IMPACTS AND SOLUTIONS
H. Bris Saint

WASTE MANAGEMENT IN CIRCULAR ECONOMY TIME
A. Petrone
SESSION - Wednesday / 09:00 - 11:00 / Room 6

SELECTIVITY CRUSHING FOR RECYCLING WASTE TONER CARTRIDGE
Q. Huang, J. W. Wang, C. L. Zhang, J. F. Bai

CRITICAL RAW MATERIALS CLOSED LOOP RECOVERY
L. Cooper, K. James

SUPPORT FOR E-WASTE RECYCLERS
M. Spitzbart, E. Herbeck, M. Schluep

CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT - MINIMIZATION AND REUSE
A. Serdarević

INFORMAL RECYCLING OF E-WASTE IN IDNHA (WEST BANK - PALESTINIAN TERRITORY) - AN ENVIRONMENTAL, ECONOMIC AND SOCIAL ANALYSIS OF A CASE STUDY
F. Zambetti, F. De Nardo, A. Perteghella, M. Vaccari

Moderators:
Roland Pomberger
Amra Serdarević