



# Strategic Waste Management Planning in SEE, Middle East and Mediterranean Region

**Novi Sad**

**10<sup>th</sup> and 11<sup>th</sup> December, 2009.**

*Jointly organized by: Provincial Secretariat for Urban Planning – Autonomous Province of Vojvodina  
ISWA – International Solid Waste Association  
SeSWA – Serbian Solid Waste Association  
Department of Environmental Engineering, Faculty of Technical Sciences, University of Novi Sad*

## Agenda

**Day 1 – Thursday, 10<sup>th</sup> December**

**Congress Centre Master (Halls 3 & 4)**

<b>09:00 – 10:00</b>	<b>Registration</b>
	<b>WELCOME WORD AND KEYNOTE LECTURES</b>
<b>10:00 – 12:30</b>	<b>Chairman: Doc. Dr. Goran Vujić</b>
 <i>Dušanka Sremački, Provincial Secretary for Urban Planning of the AP Vojvodina</i>	
<b>MUSIC PROGRAMME</b>	
<b>Keynote lectures:</b>	
Goal oriented sustainable waste management – why and how <i>Prof. Dr. Paul Brunner, Institute for Water Quality, Resources and Waste Management, Vienna University of Technology</i>	
Key planning factors for planning in waste sector in developing countries <i>Charles Peterson, Senior Specialist – Carbon Finance Unit, World Bank</i>	
Strategic Waste management opportunities within SEE waste market <i>Prof. Dr. Andjelka Mihajlov, Honorary President of Serbian Solid Waste Association SeSWA</i>	
Site reclamation and remediation of an old landfill site <i>Bernardino Filipponi, Daneco s.p.a.</i>	
<b>12:30 – 13:30</b>	<b>Cocktail Reception</b>

**Day 1 – Thursday, 10<sup>th</sup> December**

**Congress Centre Master – Hall 3**

**13:30 – 15:30**

**SESSION 1**

**Chairman: Mr Goran Čabradi**

<b>13:30</b>	<i>Sanitary landfilling – a key component of waste management in transition economies</i>	<b>J. Fellner, D. Laner, J. Lederer, P. H. Brunner</b>
<b>13:45</b>	<i>Assessment of landfill gas recovery and utilization in Bulgaria</i>	<b>P. Borgo, S. Andreev</b>
<b>14:00</b>	<i>Mechanical and biological waste treatment as possible solution for municipal waste treatment in Serbia</i>	<b>V. Kovačević</b>
<b>14:15</b>	<i>The Greek challenge toward the new framework Directive and the reverse burden of harmonization</i>	<b>A. Karkazi, S. Skoulaxinou, K. Naoum</b>
<b>14:30</b>	<i>Problems in the implementation of a collection system for sorted waste in Bosnian small cities: A case study</i>	<b>C. Collivignarelli, V. Di Bella, M. Vaccari</b>
<b>14:45</b>	<i>Biodrying municipal solid waste in a rotary drum reactor. The Effect of biomass temperature and inoculation</i>	<b>K. Hapeshis, P. Skourides, S. R. Smith, I. Skourides</b>
<b>15:00</b>	<i>Planning and procedure in closing of existing dumps</i>	<b>M. Stankovic, J. Manic, G. Vujic, D. Ubavin</b>
<b>15:15</b>	<i>Discussion</i>	

**15:30 – 16:00**

**Coffee break -**

**16:00 – 18:00**

**SESSION 3**

**Chairman: Snežana Lekić**

<b>16:00</b>	<i>Improving municipal system for solid waste management using GIS techniques and route optimization</i>	<b>N. Jovicic, G. Boskovic, G. Jovicic, M. Babic</b>
<b>16:15</b>	<i>Modern solutions for municipal service – Waste collection and public hygiene according to the EU standards</i>	<b>N. Spetsios</b>
<b>16:30</b>	<i>Recommendations for transfer station design, Case study – City of Sabac</i>	<b>M. Stankovic, T. Obradovic, Z. Stankovic</b>
<b>16:45</b>	<i>Multi factor analysis and assessment of sites and landfill exploitation methods</i>	<b>V. P. Njunjic</b>
<b>17:00</b>	<i>Spatial planning aspects of municipal waste management in Autonomous Province of Vojvodina – Opportunities and problems</i>	<b>T.Z. Vasiljevic, V. Zelenovic, S. Pivnicki, D. Duncic, D. Mikovic</b>
<b>17:15</b>	<i>Sustainable waste management and petroleum sludge</i>	<b>D. Sokolović, D. Govedarica</b>
<b>17:30</b>	<i>Discussion</i>	

**Day 1 – Thursday, 10<sup>th</sup> December**

**Congress Centre Master - Hall 4**

**13:30 – 15:30**

**SESSION 2**

**Chairman: Prof. Dr. Aleksandar Jovović**

<b>13:30</b>	<i>Waste management in Greece and potential for Waste-to-Energy</i>	<b>E. Kalogirou</b>
<b>13:45</b>	<i>The Role of Extended Producer - Responsibility (EPR) in Strategic Waste Management</i>	<b>C. Stiglitz</b>
<b>14:00</b>	<i>Modernization of municipal services: collection, transfer and disposal of communal waste and Implementation of system for separate collection of secondary raw materials at source</i>	<b>S. Miroslavljev</b>
<b>14:15</b>	<i>Recycling industry in Serbia - Environmental protection Agency data</i>	<b>I. Dukic, N. Misajlovski, L. Mihailovic, Lj. Djordjevic, S. Bijelovic</b>
<b>14:30</b>	<i>The Effects of C and F Types of Fly Ashes on Compressive Strength Properties of Briquettes</i>	<b>Ö. Ç. Sola, M. Yayla, B. Sayin, C. D. Atiş</b>
<b>14:45</b>	<i>Plastic bags in MSW – Ecologic and economic analysis</i>	<b>L. Tomas, D. Ubavin, B. Batinic, N. Stanisavljevic</b>
<b>15:00</b>	<i>Mathematical modelling of partitioning processes of polycyclic aromatic hydrocarbons as gas waste</i>	<b>J. Radonic, M. V. Miloradov, M. T. Sekulic, I. Holoubek, M. Djogo</b>
<b>15:15</b>	<i>Discussion</i>	

**15:30 – 16:00**

**Coffee break**

**16:00 – 18:00**

**SESSION 4**

**Chairman: Nebojša Vraneš**

<b>16:00</b>	<i>Industrial and communal waste in Serbia - Environmental protection Agency data</i>	<b>I. Dukic, N. Misajlovski, L. Mihailovic, Lj. Djordjevic, S. Bijelovic, N. Redzic</b>
<b>16:15</b>	<i>Management of waste sludge from waste water treatment plants</i>	<b>M. Sklenárova, J. Hodolič, M. Majerník</b>
<b>16:30</b>	<i>Feasibility Study for Composting of Municipal Waste in Kragujevac</i>	<b>N. Jovičić, D. Petrović, M. Jaćimović, G. Jovičić, D. Milentijević</b>
<b>16:45</b>	<i>Implementation of the EC Landfill Directive in Croatia – Progress, problems and achievements (Emphasis on municipal solid waste)</i>	<b>I. Stanic</b>
<b>17:00</b>	<i>A field investigation of the quality of gas and piezometric water from municipal solid waste landfills in Vojvodina area</i>	<b>M. V. Miloradov, G. Vujic, J. Radonic, M. Djogo, A. Dvornic, D. Ubavin, D. Milovanovic</b>
<b>17:15</b>	<i>Disposal of motor vehicles in Serbia at the end of their life cycle</i>	<b>M. Pavlovic</b>
<b>17:30</b>	<i>Discussion</i>	

**19:00 – 22.30**

**Gala Dinner for all participants (Restaurant Alaska barka)**



**Day 2 – Friday 11. December**

**Congress Centre Master (Halls 3 & 4)**

**09:00 – 10:00**

**Registration**

**KEYNOTE LECTURES**

**10:00 – 12:30**

**Chairman: Mr Hristina Stevanović Čarapina**

**Waste Management 2050: How Innovation Drivers will shape SWM future**

*Antonis Mavropoulos, ISWA*

**Methane to Markets Program**

*Swarupa Ganguli, US EPA Landfill Methane Outreach Program and Methane to Markets*

**The Cement industry, a reliable partner of the waste management? Possibilities of the cement industry to support the Waste management strategy of Serbia**

*Christian Lampl, Resource Manager, Lafarge Perlmooser GmbH, Austria*

**Strategies for biowaste recovery in Serbia**

*Dr David Newman, Italian Composting Consortium (CIC), Board Member, ISWA*

**Solid Waste Management and Recycling and Recovery Programs in Turkey**

*Günay Kocasoy, Institute of Environmental Sciences, Boğaziçi University, Istanbul*

**12:30 – 13:30**

**Lunch break**

**13:30 – 17:30**

**US EPA Workshop**

**Moderator: Swarupa Ganguli, US EPA Landfill Methane Outreach Program and Methane to Markets -**

**Session 1 – Landfill Basics**

**13:30** 1a) Landfill & Landfill Gas Basics, *Scott Messier, SCS Engineers, USA*

**Session 2 – Landfill Gas Energy System Components**

**13:45** 2a) Landfill Wellfield and Project, *Scott Messier, SCS Engineers, USA*

2b) Modeling Landfill Biogas Generation, *Cathleen Hall, SCS Engineers, USA*

**Session 3 – Landfill Biogas Project Planning**

**14:30** 3a) Biogas (LFG) Energy Project Planning, *Cathleen Hall, SCS Engineers, USA*

3b) Field assessments of Landfill biogas resources, *Cathleen Hall, SCS Engineers, USA*

3c) Landfill Biogas Technology Applications, *Scott Messier, SCS Engineers, USA*

**Session 4 – Landfill Gas Energy Project Economics and Financing**

**16:30** 4a) Landfill Biogas Project Financing and Development, *Cathleen Hall, SCS Engineers, USA*

4b) Landfill Biogas Energy: Ukraine Case Study, *Yuri Matveev, SEC Biomass, Ukraine*

**17:00 Questions and Answers -**

**17:30**

**Closing Ceremony and the Award of Certificates**