

Some of the WTER Activities in 2012-2014 in Europe, Asia and Latin America

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-The [Earth Engineering Center \(EEC\) of Columbia University](http://www.seas.columbia.edu/earth/wter/files/PRESS%20RELEASE%20SWM_BAKU2013.pdf) in collaboration with [WTER-Greece / SYNERGIA](http://www.wter.gr) and "[Tamiz Shahar](http://www.tamizshahar.com)" JSC organized a one-week intensive course on **Sustainable Waste Management: The case of Baku**", on June 17-21, 2013. The venue was the Azerbaijan Diplomatic Academy (ADA) in the capital city of Baku; the event was sponsored by the Azerbaijan Public Company *Tamiz Shahar* who manage the MSW of Baku and the French company CNIM who built the new Baku WTE plant. The registrants and the instructors were from 17 countries: Azerbaijan, Turkey, Indonesia, India, Oman, Nigeria, Ghana, Libya, Brazil, France, Belgium, Italy, Greece, USA, Lebanon, Austria and U.K.). The international and Azerbaijan Professors plus Azerbaijan Keynote speakers of the seminar were Nickolas Themelis, Stefano Consonni, Carlo Vandecasteele, Franz Neubacher, Efstratios Kalogirou (Scientific Coordinator of the Seminar), Zakir Ibrahimov, Oqtay Mammadov, Sabit Zeyniyev, Vusal Nasirili and the Manager of the WTE Plant, Stefano Danieli. The participants visited the new WTE facility of Baku (500,000 tons MSW/year), the largest new WTE plant in Eastern Europe that produces 231 GWh of electricity annually. The registrants also visited a modern "dirty" Materials Recovery Facility (MRF) of 200,000 tons/year capacity, located at the Balakhani Industrial Park.

http://www.seas.columbia.edu/earth/wter/files/PRESS%20RELEASE%20SWM_BAKU2013.pdf



Visit of control room of Baku WTE

-The 2nd Intensive Course on **"Sustainable Waste Management: Recycling & Biological Treatment"** was held at the Athens Information Technology institute on July 1-4, 2013. The workshop focused on new practices in evaluating the environmental benefits and impacts, as well as the economic viability of all sustainable waste management technologies. This event was supported by the Greek Recycling Organization Recycling (EOAN), the Association of Compost Companies (SEK), the Centre for Sustainable Enterprise Development SA (Piraeus Bank Group), and the NGO Company Earth. The instructors included A. Skordilis, G. Giovanof, N.J. Themelis, E. Kalogirou, C. Velis, A. Karagiannidis D. Kanakopoulos, Fr. Vrontanis, G. Pappas, and E. George. The program included a plant visit of the Korpopiou MRF http://www.ait.gr/ait_web_site/conference/wter2013/index.jsp

-Dr. Efstratios Kalogirou (WTER-Greece) and Mr. Franz Neubacher (WTER-Austria) participated in the South-East European Forum on Energy Efficiency, Renewable Energy, Smart Cities, and Waste Management held at Sofia, Bulgaria, 5-7 March 2014, and organized by Via Expo of Sofia. Their presentations on **"Global and Regional Perspectives in South-East Europe for Sustainable Waste Management and WTE"** focused on the activities of the WTER Council in Europe and the challenges and opportunities in implementing Waste to Energy Projects in south eastern Europe and the Balkans. :<http://viaexpo.com/htdocs/images/fm/psr-web-2.pdf>

- Prof. Nickolas Themelis, Chair of Global WTER Council was invited speaker at two sessions of the ISWA 2013 in Vienna (October 7-11, 2013). The title of his presentation was **"The Role of WTE Industry in the Quest for Sustainable Development"**: http://www.iswa2013.org/uploads/AAISWA_Vienna_Themelis_Oct7_presentation_424_EN.pdf



Photo of participants after awarding of certificates, AIT, Athens, Greece

-Prof. Themelis, presented a seminar at the sister organization WTER-Italy (MatER) in Piacenza on March 4, 2014, on **"Global waste management, climate change, and 21st century advances in the thermal processing of used materials"**: <http://www.mater.polimi.it/mater/en/news-events/meetings/meetings-organised-by-mater/558-seminary-of-prof-nickolas-themelis>

-Prof. Constantinos Psomopoulos, Vice President of the WTER-Greece (SYNERGIA), presented two papers at the International Conference on Protection and Restoration of the Environment in Skiathos, Greece: **WTE plants installed in 10 European Cities"** and **"Use of alternative fuels in cement industry"**. <http://www.pre12.prd.uth.gr/>

-Under the auspices of Columbia's Global Initiative, the Earth Engineering Center organized two workshops on **Sustainable Waste management for Latin America**; one in Rio de Janeiro, in collaboration with the Columbia Global Center-Rio and sponsored by KCI company was held in Rio on August 29, 2014. The second, in collaboration with the Columbia Global Center in Santiago was held on Sept. 1, 2014. It is expected that this event will lead to the formation of a WTER-Latin America organization that includes Brazil, Mexico, Argentina and Chile and nurtures research and education collaborations among universities and the Columbia Global Centers in Latin America. <http://globalcenters.columbia.edu/content/advancing-sustainable-waste-management-latin-america> and <http://www.udd.cl/noticias/2014/09/04/capitulo-chileno-de-waste-energy-research-technology-se-instala-en-facultad-de-ingenieria-udd/>

-Prof. Psomopoulos represented the Global WTER Council (GWC) at the Vienna 2014 IRRC Waste to Energy Conference (September 8-9, 2014), 8-9 September 2014. The subject of his paper and presentation was: **Guidebook for sustainable waste management in Latin America"** http://www.vivis.de/index.php?option=com_content&view=article&id=71&Itemid=114

-Dr. Kalogirou represented GWC at the ISWA International Congress in Sao Paulo, Brazil (September 8-11, 2014: 1100 participants). The subject of his paper was **"Potential for Waste to Energy in Latin America and Some Case Studies"** <http://iswa2014.org/wp-content/uploads/2014/09/programma.pdf>

-WTER-Greece/SYNERGIA and Concorci per al Tractament de RSU del Maresme have organized an International Conference on Sustainable Waste Management, in the city of Mataró, close to Barcelona, Spain. Dr. Efstratios Kalogirou will lead this intensive course with a team of international experts in the field of waste management. The 3-day workshop (13-15 Oct. 2014) will focus on the environmental and economic impacts of various waste management options

www.seas.columbia.edu/earth/wter/sofos/RECUWATTLatinoamerica.pdf<http://www.recuwatt.com/en/seminar.html>



The Baku WTE plant (500,000 tons MSW/year)