WTERT Greece – SYNERGIA

Waste-to-Energy Research & Technology Council

Tsinghua University, Beijing, China
25th August 2011
Dr. Efstratios Kalogirou is the President of Waste-to-Energy Research & Technology Council (WTERT) for Greece (Synergia, www.wtert.gr), General Manager of Global WTERT Council and a member in the U.S. WTERT Advisory Board (WTERT, www.wtert.org, USA) in Earth Engineering Center of Columbia University, U.S.A. (cooperating with Professor N. Themelis), in the scientific fields: energy recovery from solid wastes, potable water resources, ozone sterilization technologies.
Dr. Efstratios Kalogirou

Has a Ph.D. at the National Technical University of Athens, Department of Chemical Engineering.

He is an Expert in Waste Management, involved in many environmental projects worldwide. Also he is author in many scientific and technical papers, especially in WTE.
MSc. Athanasios Bourtsalas

He has studied Electrical and Computer Engineering at the University of Patras in Greece and have graduated from Columbia University in the City of New York, where he obtained a MSc degree in Earth Resources Engineering from the Department of Earth and Environmental Engineering.

He is currently a Research Associate at the Earth Engineering Center, Columbia University, working with Professor N.J. Themelis in projects related to the waste-to energy technologies and carbon capture and storage.
Dr. Sophia Bethani holds a Bachelor Degree in Civil Engineering and a MSc, PhD and Post-Doctorate in waste management.

She is the founder and chief Scientist of ALKEMY, a US - company that owns intellectual property in the production of synthetic construction aggregates from solid waste materials.
Dr. Efstratios Kalogirou
“Waste to Energy: An Integral Part of Worldwide Sustainable Waste Management”

MSc. Athanasios Bourtsalas “WTE, Health Considerations & CCS”

Dr. Sofia Bethani “Production of synthetic aggregates for use in structural concrete from waste to energy ashes”
Sister Organisations of WTERT

- www.wtert.org
- www.wtert.ca
- www.wtert.cn
- www.wtert.eu
- www.wtert.com.br
- www.wtert.jp
The Global WTERT Council has been formed to coordinate the activities of all the WTERT national organizations in achieving the common goal, i.e., to identify the best available technologies for the treatment of various waste materials, conduct additional academic research as required, and disseminate this information by means of publications, the WTERT web pages, media, and periodic meetings and conferences, at the national level and also internationally.
WTERT strives to promote all means of sustainable waste management by maximizing the recovery of materials and energy and minimizing the environmental impacts, on the basis of the scientific knowledge of the effects of various waste treatment technologies worldwide.

The accepted hierarchy of waste management dictates materials recovery followed by energy recovery (waste-to-energy), as used in more than 800 WTE plants worldwide (435 in Europe, 100 in USA, and the rest in Asia and other parts of the world).
The Global WTERT Council is responsible for assisting the existing WTERT national organization to attain their goals and helping to form new sister organizations, especially in developing nations where the need for sustainable waste management is most pressing. The Council is also responsible for dissemination of technical information among the national WTERT organizations.

In parallel, participate in worldwide special events, conferences, special seminars/lectures on WTE and technical meetings with the objective of promoting the application and growth of WTE technology worldwide.
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