

ADVANCING STATE OF THE ART SUSTAINABLE WASTE MANAGEMENT IN SOUTHERN EUROPE AND MIDDLE EAST

A five-day intensive workshop
May 18-22, 2015
09:30-17:00
7th Level Auditorium

DEREE - The American College of Greece
6 Gravias Street, Aghia Paraskevi
Athens



School of Graduate & Professional Education



CERTIFICATION:

Participants will receive a Certificate of completing course requirements satisfactorily by the Earth Engineering Center (EEC) of Columbia University. The EEC is recognized by the New York State Education Department (NYSED) for issuing Continuing Education Credits.

CREDITS:

This is an EEC technical program. Attendance is recognized by NYSED for up to 24 Continuing Education Credits

DURATION:

5 working days,
total of 30 class hours

LANGUAGE OF INSTRUCTION:

Classes and handouts are in English

TUITION FEES:

- Single Registration Fee: €580
- ACG, Public University and Private College Students: €400
- ACG Alumni: €400

Corporate discount rates apply for groups. The program may be funded through LAEK/OAED.

To find out more about discount rates, payment methods, and to register online, please visit:
www.acg.edu/waste-management-workshop

WORKSHOP OVERVIEW

The Earth Engineering Center (EEC) of Columbia University in collaboration with WTERT-Greece/SYNERGIA and DERE – The American College of Greece, is organizing a five-day intensive workshop on cutting-edge technologies for sustainable waste management and their potential application in the Southern Europe and Middle East region.

The workshop will provide an overview and evaluation of the environmental benefits and impacts as well as the economic viability of:

- **Recycling** • **Composting**
- **Mechanical-Biological Treatment**
- **Waste To Energy** • **Landfill**
- **Sustainable Manufacturing**

On the last day of the workshop, participants will visit the state of the art Mechanical Recycling Facility of Koropi, Athens.

The workshop is a unique training opportunity for professionals currently working in the environmental field in the Southern Europe and Middle East region, or for those wishing to expand their activities in the waste management sector. The workshop is also addressed to governmental agencies, companies planning and executing waste management projects and researchers, university students, as well as anyone wishing to deepen their understanding in this field.

WHO SHOULD ATTEND:

- **Business sector:** CEOs, Executives, Managers, Policy Makers, Mayors & consultants, environmental services companies, equipment manufacturers, process technologists, waste managers, recovery and recycling agents, engineering sector consultants, energy companies, environmental education companies, Engineers, Consultants

- **Public sector:** public administrators, European, National, Regional, local Governmental officials, e.g. Waste Management Associations (FODSA), Public Power Corporation
- **Foundations and centers of innovation and technology:** Foundations engaged in research, development and investment in waste management, R & D departments
- **Universities and research centers:** Environmental research groups in general and waste management, in particular universities and academic research centers, University Students, MSc, PhD candidates.
- **NGOs with environmental responsibilities:** Non-profit organizations dedicated to promotion and development of initiatives in the field of waste management.

WORKSHOP BENEFITS:

- Cutting edge workshop content in state of the art waste management practices, environmental policy, and engineering
- Highly qualified, prominent instructors under the auspices of the Earth Engineering Center; Columbia University and WTERT-Greece | SYNERGIA
- Opportunity to network with international experts and colleagues in a growing market for the region
- Practical training through case studies and the technical visit at Waste Management Facilities in Koropi, Attica



Dr Efstratios Kalogirou

*President, WTERT-Greece (SYNERGIA),
Vice Chair Global WTERT, USA*

Dr Efstratios Kalogirou is the scientific leader of a team of experts in the field of waste management from prestigious institutions at international and national level, as well as professionals from the waste management industry. His scientific fields are: energy from waste, potable water resources, and ozone sterilization technologies in Earth Engineering Center of Columbia University, New York, in cooperation with Professor Themelis. He is involved in many environmental projects worldwide and is author to many scientific and technical papers, especially in the Waste to Energy field.

Dr Adamantios Skordilis

*Ministry of the Environment, Energy
and Climate Change*

Dr Adamantios Skordilis is a Chemical Engineer with a PhD in Environmental Engineering from the Technical University of Berlin, and a member of the Ministry of Environment, Energy and Climate Change. He has served as Head of the Department of Solid Waste Management, Head of the Office of Alternative Waste Management, and President of the Alternative Management Committee. Today he is General Director of the National Organization for the Recycling (EOAN). He has authored 10 books on Waste Management and Environmental Management and Business Organizations and issued 100 Scientific Publications in Journals and Conferences.

Dr Gregory S. Yovanof

*Professor of Innovation & Entrepreneurship,
Athens Information Technology (AIT)*

Dr Gregory S. Yovanof, former Associate Dean of the AIT, received his PhD in Communications from the University of Southern California (USC), Los Angeles, CA. He holds four patents on imaging systems, and he is a senior member of the IEEE. He currently serves as Head of the "Research in Innovation & Entrepreneurship – RIE" research group. As an active member of the Greek entrepreneurial ecosystem, he has offered strategy consultancy services to start-up companies and clusters of innovations in the ICT and Biotech sectors. In addition to academic work, his professional career includes an over twenty-year tenure in the high-tech industry in the greater Asia-Pacific region. Before joining AIT in 2002, he worked as a staff scientist at the Eastman Kodak Research Labs and Hewlett-Packard Laboratories, engaged over a period of nine years in multimedia signal processing for computer peripheral devices. He has also led the development of several award-winning ICs for the DVD market as a co-founder and an executive manager at two start-up companies in Silicon Valley.

Dr Goran Vujic

*Professor and Head of the Department of
Environmental Engineering, Faculty of Technical
Science, University of Novi Sad*

Dr Goran Vujic graduated in 1998 with a degree in Mechanical Engineering from the Faculty of Technical Science, University of Novi Sad. He obtained his MSc (2003) and PhD (2007) degrees in Environmental Engineering from the Faculty of Technical Science, University of Novi Sad. He is an expert in the field of waste management. He is also member of the ISWA board representing the RDN the Balkans, Middle East and Mediterranean Region. He has published more than 65 scientific papers. He was participant and project

manager of many national and international environmental projects.

Dr Panagiotis Grammelis is a doctor of Mechanical Engineering and is appointed as Senior Researcher in the Chemical Process and Energy Resources Institute (CERTH/CPERI). In the last decade, he supervised and participated in numerous research projects and engineering studies for energy applications. The scope of his research is the exploitation of solid fuels with emphasis on the thermochemical conversion technologies. Since 2011, Dr Grammelis is Director of the Laboratory of Alternative Fuels & Technologies, member of CPERI's Scientific Council and guides a team of 25 researchers. He is a national expert for the standardization of solid biofuels in CEN/TC 335/WG 2, Steering Committee member of the Biomass Panel in the RHC-ETP (responsible for industrial boilers and district heating) and member of DHC+ (District Heating & Cooling) Platform. Member of Editorial Board in IJER and the Scientific Committees of international conferences (GCGW, EUBCE, WSED). He is co-author in 259 papers in scientific journals, international conferences, workshops and seminars.

Carles Salesai Mirabet

General Director of CONSORCI, Mataro, Spain
Industrial engineer, specialized in energetic techniques, with 15 years of experience in waste engineering and management, most of which devoted to waste-to-energy management in a public organization.

Vekkos Cornelius Andrianos has studied Agriculture Biotechnology at the Agricultural University of Athens, specialized in composting and drying process for food waste management. He is General Manager at ECOVRS, a supply and research company in waste management solutions. He is Partner of the National Technical University and the Agricultural University of Athens in food

waste management research and a consultant for waste management in hotels, schools and public, private companies.

Maria Vitoraki holds a Chemical Engineering degree from the Aristotle University of Thessaloniki and a MSc from the University of Portsmouth. She teaches Environmental Science courses at the American College of Greece, including waste management. She has been an active member of the Environmental Movement in Greece, and her main interest is Municipal Solid Waste Management and the enforcement of environmental legislation.

Christina Marouli studied biochemistry (B.A.), Urban and environmental policy (M.A.) and sociology (PhD) – with a specialization in environment and social inequalities – in the US. She has worked as a consultant and a free lance researcher on environmental and occupational safety health issues in the private sector. She has extensively taught on environmental protection, environmental education, occupational safety and health, sociology and environmental management. She was also awarded a Fulbright award in the context of which she did research on multicultural environmental education programmes. She has worked for the European Commission as a monitoring expert for LIFE projects in Greece and Cyprus. Since 2010, she has been teaching at the Environmental Studies Program of DERE – The American College of Greece (ACG), in the development of which she actively participated. At ACG, she initiated the Center of Excellence for Sustainability and has been its Director since its inception in 2011.



WORKSHOP SCHEDULE

ADVANCING STATE OF THE ART SUSTAINABLE WASTE MANAGEMENT IN SOUTHERN EUROPE AND MIDDLE EAST

Monday, May 18

09.30 – 12.30	Introduction-Welcome Waste Management in Greece (The case of Attica) Coffee Break	WTERT, DERE Dr Efstratios Kalogirou
12.30 – 13.30	The role of European Commission Local Country Regulations and Legislation	Dr Efstratios Kalogirou Dr Efstratios Kalogirou
13.30 – 17.00	Lunch Break Source Separation Mechanical Recycling Coffee Break Composting of Organic Wastes Drying Technologies Case Study	Dr Adamantios Skordilis Dr Adamantios Skordilis Mr K. Vekkos Mr K. Vekkos TBC

Tuesday, May 19

09.30 – 12.30	MBT Plants Utilization of RDF/SRF produced by MBT Processes Coffee Break	Dr P. Grammelis Dr P. Grammelis
12.30 – 13.30	Grate Combustion/Incineration Status –Quo and Experience from WTE worldwide	Dr Efstratios Kalogirou Dr Efstratios Kalogirou
13.30 – 17.00	Lunch Break Advancing SWM in South Europe Advancing SWM in Middle East Coffee Break The Model of Catalonia/Maresme Case Study	Dr Efstratios Kalogirou Dr Efstratios Kalogirou Carles Salesa Mirabet TBC

Wednesday, May 20

09.30 – 12.30	Sanitary Landfill Landfill Gas Capture and Utilization in Gas Motors Beneficial Uses of Ash Coffee Break Landfill Aftercare Hazardous Waste Landfill	Prof. Goran Vujic Prof. Goran Vujic Dr Efstratios Kalogirou Prof. Goran Vujic Prof. Goran Vujic
12.30 – 13.30	Lunch Break	
13.30 – 17.00	Parameters for BAT CAPEX Coffee Break OPEX Solid Waste Management in Serbia Case Study	Dr Efstratios Kalogirou Dr Efstratios Kalogirou Dr Efstratios Kalogirou Prof. Goran Vujic TBC

Thursday, May 21

09.30 – 12.30	Corporate Sustainability Strategy Sustainable Manufacturing Coffee Break Business Models in SWM Advances in Green Technologies & Smart Systems	Prof. Gregory Yovanof Prof. Gregory Yovanof Prof. Gregory Yovanof Prof. Gregory Yovanof
12.30 – 13.30	Lunch Break	
13:30-17:00	Waste and social practices: Policy making for sustainability Sustainable waste management and governance ACG Sustainability policy and practice Coffee Break Global WTERT Council (Research & Development) Case Study	Prof. Maria Vitoraki Prof. Christina Marouli Dr Efstratios Kalogirou TBC

Friday, May 22

09.30 – 12.30	Conclusions on Advancing Sustainable Waste Management for Green Metropolitan cities Ceremony (Certificates to Participants)	Dr Efstratios Kalogirou DEREE/WTERT
13.00 – 16.30	Technical Site Visit in KDAY Koropiou	WATT S.A.



Recycling

Composting

Mechanical-Biological Treatment

Waste To Energy

Landfill

Sustainable Manufacturing

For additional information please contact
the DERE - School of Graduate & Professional Education,
tel.: 210 600 9800/9 ext. 1332, e-mail: professional@acg.edu

The American College of Greece
DERE - School of Graduate & Professional Education
6 Gravias Street
153 42 Aghia Paraskevi



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