

The Venice International University and the International Waste Working Group (IWWG)

organize a Sustainable Waste Management Winter School on **"Anaerobic Digestion: processes, technology, design and research advancement"**

What is it about?
Anaerobic Digestion - AD - plays a fundamental role in modern waste management strategies and represents the best solution available today for the treatment of the biodegradable fraction of waste. AD technology optimizes sustainability targets by recovering and recycling resources and by reducing uncontrolled emissions of GHG that may occur in landfills. In the framework of the VIU-IWWG Winter School on Anaerobic Digestion, highly qualified experts will provide an in-depth insight into the processes governing AD, as well as detailed information on the technologies in use (both dry and wet), design protocols, calculation procedures, and the status and perspectives of scientific investigation in this field

Topics covered by the course include:
Anaerobic Processes
Substrates for Anaerobic Digestion
Anaerobic Digestion Technologies and Design
Treatment and use of biogas
Digestate Management
Biohydrogen Generation
Test Systems
Co-digestion

Anaerobic Digestion plants for developing countries

Program structure:
The course duration is nine days. Students will attend in-class lectures, participate in sessions of the Venice 2014 - Fifth International Symposium on Energy from Biomass and Waste, and take part in a field trip to two anaerobic digestion plants. During the whole duration of the school students will have the possibility to discuss their individual research activity. Additionally all students will work in groups developing new ideas while working on an assigned research projects. The groups will be supervised by tutors.
Social activities will be organized in the evenings.
Minimum number of students: 16, maximum number of students 30.

Who can apply?
Master students who have completed all of their required course work, PhD students and young researchers from any university and any discipline with an interest in waste management. Applicants familiar with these subjects and already working in private companies or public administrations are welcome. All participants must be able to communicate fluently in English.

When to apply?
Applications are now open. Apply before October 19.

Duration and period:
15-22 November 2014

Location:
Venice International University, Island of San Servolo, Venice (Italy).

Course tuition and fees:

Tuition: 680€ + VAT - including lunches, class materials, site visits, partecipation to Veniec Waste Symposium sessions.
Accommodation package: 550€ + VAT including nine nights' accommodation (14-22/November) in shared double rooms on San Servolo Campus and breakfast on campus.

List of courses:
History, role and perspectives of Anaerobic Digestion in Waste Management Strategies
Anaerobic Processes: Theory
Anaerobic Processes: Experimental assessment and results
Description and characteristics of different substrates for Anaerobic Digestion
Anaerobic Digestion Technologies
Anaerobic Digestion Plants Design
Operation of Anaerobic Digestion Plants and Safety Issues
Treatment and use of biogas
Digestate Management
Biohydrogen Generation
Test Systems
Co-digestion : options and cases
Small Anaerobic Digestion plants for developing countries

Lecturers:
Luca Alibardi, University of Padova, Italy
*Werner Bidlingmaie*r, Bauhaus-University Weimar, Germany
William Clarke, The University of Queensland, Australia
Luis Diaz, CalRecovery, USA (invited)
Piet Liens, UNESCO-IHE
Paolo Pavan, Ca' Foscari University of Venice, Italy
Pinjing HE, Tongji University, China
Marco Ritzkowski, University of Hamburg-Harburg, Germany
Cristina Trois, University of KwaZulu-Natal, Durban, South Africa
Rainer Stegmann, University of Hamburg-Harburg, Germany
Jiane Zuo, Tsinghua University, China (invited)

More information:

Informational Brochure

Draft program_short version

Program of the Winter School
Or contact tea.stifanic@univiu.org