



SAFE AND SUSTAINABLE SANITATION WORKSHOP

2 ECTS CREDITS, 20-22 AUGUST 2012, TAMPERE, FINLAND

*PRE-CONFERENCE WORKSHOP →
22.-25.8. THE 4TH INTERNATIONAL DRY TOILET CONFERENCE*

COURSE OBJECTIVES

Two earlier Safe and Sustainable Sanitation workshops have offered views to the latest sanitation research and covered wide range of topics from technical details to sanitation project descriptions. The 3rd Safe and Sustainable Sanitation workshop has a new focus. Due to several unfortunate events – Haiti, Fukushima, Philippines among others – during last few years and development in emergency sanitation – especially urine diverting – the workshop 2012 has focus on sanitation in emergency situations. What is a role of sanitation in such circumstances, which are the current practices and technologies in use and how the most vulnerable people as well as ecological sustainability can be taken into account?

STUDENTS

All conference participants are welcome to take part on the workshop. Presence of all these sanitation experts is utilised by using group work and discussions as learning methods. The workshop is also part of Finnish Red Cross water and sanitation training. In addition Finnish university students can take the course. Workshop lectures are recorded and used on an online course Safe and Sustainable Sanitation (5 ECTS credits), which is offered to Finnish university students and exchange students in cooperation with UniPID network every autumn for next 3 years. Students, who come to the workshop and wish to complete also the online course, pass only certain online modules and earn 5 ECTS credits altogether.

FEES

There is no course fee for the workshop but the 4th International Dry Toilet Conference fee is 500 € for individuals and 200 € for the students. Training material is free but accommodation, travelling costs and meals must be paid by the students. However, for the students who are sponsored to the conference by The Dry Toilet Association, meals and accommodation are free. Coffee, tea and refreshments served during the breaks, get-together party and workshop banquet are available for everyone without expenses.



TAMPERE UNIVERSITY OF TECHNOLOGY

TEACHERS

Dr. **Petri Juuti**, Senior Researcher, University of Tampere, Finland
Associate Professor **Gina S Itchon**, Department of Preventive and Community Medicine, Head of the Research Unit, Jose P Rizal School of Medicine, Xavier University, Philippines
Andrew Larsen, Fontes Foundation, Norway
Dr. **Funamizu, Naoyuki**, Professor, Faculty of Engineering, Hokkaido University, Japan
Dr. **C. A. Srinivasa Murthy**, Professor and Head, Department of Soil Science and Agricultural Chemistry, University of Agricultural Sciences, Bangalore, India
Gunder Edström, Watsan Delegate, International Federation of Red Cross and Red Crescent Societies, Sweden
Dr. Juhani Miettola, Institute of Public Health and Clinical Nutrition, University of Eastern Finland
Professor **Tuula Tuhkanen**, Tampere University of Technology, Finland
Dr. **Claudia Wendland**, Women in Europe for a Common Future, Germany
Dr. **Anthony Gachanja**, Professor in Analytical and Environmental Chemistry, Jomo Kenyatta University of Agriculture and Technology, Kenya
Dr. **Alfred Mayabi**, Associate Professor of Environmental Engineering, Jomo Kenyatta University of Agriculture and Technology, Kenya

Person in charge: Professor **Tuula Tuhkanen**, Tampere University of Technology, Finland
Facilitators: Researcher **Adela Ramos Garcia** and conference assistant **Eero Makkonen**



2009 Workshop participants – hope to see you and many new people in August!

CONTACT

For more information and workshop registration please contact: tuula.tuhkanen@tut.fi



PRELIMINARY PROGRAM OF THE INTENSIVE COURSE

Monday 20.8.	
	@ Tampere University of Technology, Festia building, Lecture Hall PS 2
9.00	Registration and coffee
9.30	Welcome and introduction to the course <i>Tuula Tuhkanen</i>
9.50	History of sanitation in Finland <i>Petri Juuti</i>
10.30	Group work assignment is given: Planning a camp sanitation system
11.00	Tour/construction of Red Cross camp, TUT campus area
13.00	Lunch
14.00	Sanitation in extreme conditions <i>Andrew Larsen</i>
14.50	WatSan delegate experience and RC sanitation options <i>Gunder Edström</i>
15.30	Coffee
16.00	Drinking water quality and environmental regulation in water quality in Kenya <i>Anthony Gachanja</i>
16.50	Use of biotoilet in informal settlement in Kenya <i>Alfred Mayabi</i>
18.00	Get-together and party

Tuesday 21.8.	
	Lecture Hall PS 2
9.00	Excursion to Opi enempi –learning environment (indoor dry toilets) TAMK
10.45	Coffee
11.00	Productive sanitation, urine - fertilizer for crop production <i>Dr. Srinivasamurthy</i>
11.50	Pharmaceuticals in urine <i>Prof. Tuula Tuhkanen</i>
12.30	Health and safety <i>Dr. Juhani Miettola</i>
13.15	Lunch
14.00	Sanitation-related diseases, UDDTs for emergency sanitation, development of sanitation-related diseases as a consequence of flash floods in Philippines <i>Dr. Gina Itchon</i>
14.50	Sanitation for the most vulnerable <i>Dr. Claudia Wendland</i>
15.30	Coffee
	Time for group work (separate rooms and tents)
18.00	Banquet by Pre-conference Workshop (tents)

Wednesday 22.8.	
	Lecture hall PS 2
9.00	Groupwork presentations
10.30	Coffee
10.45	Groupwork presentations
11.30	Resources oriented sanitation system for those areas where economic and technical limitations & Fukushima lessons <i>Dr. Funamizu</i>
12.30	Lunch
13.30	Panel, discussions and groupwork feedback
14.45	Coffee
15.00	Field trip of Dry Toilet conference
19.00	Get together party of DT Conference at Holiday Inn hotel