

Detail course timetable

Detail course timetable cont.

Date	Monday 08-06-2009	Tuesday 09-06-2009	Wednesday 10-06-2009	Thursday 11-06-2009	Friday 12-06-2009	Saturday 13-06-2009	Sunday 14-06-2009	Monday 15-06-2009	Tuesday 16-06-2009	Wednesday 17-06-2009	Thursday 18-06-2009	Friday 19-06-2009	Saturday 20-06-2009
Course day	1	2	3	4	5	6	7	8	9	10			
	9:00 - 9:30 Course opening and welcome speech <i>Daan/Director</i>	9:00 - 11:30 Global climate change - part 2 (incl. 15 min break) <i>JMU</i>	Technical trip #1	9:00 - 9:45 Introduction to sludge treatment <i>SM</i>	9:00 - 9:45 New trends and challenges in sludge treatment <i>EL</i>	10:00 - 11:30 Energy and mass balance at municipal wwtp <i>SMR</i>	10:00 - 11:30 Anaerobic degradation and biogas production (incl. 15 min break). <i>AM/GC</i>	9:00 - 10:30 Minimization of sludge production and sludge disintegration <i>AC/MCR</i>	9:00 - 9:45	9:00 - 10:30 Optimization of wwtp with computer simulation <i>JM</i>	9:00 - 10:30 Hydrogen production (incl. Cooperrocessing with solid waste) <i>AM</i>	9:00 - approx. 12:30 Student presentations and discussion (incl. breaks)	
	9:30 - 10:15 Sustainable management at wastewater treatment plant <i>JM</i>												
	10:30 - 13:00 Global climate change - part 1 (incl. 15 min break) <i>JMU</i>	11:45 - 13:15 Nutrient removal exercise (calculations) <i>EP</i>		12:45 - 13:30 Biogas production exercise part 1 <i>SMR/MCR</i>	11:45 - 13:15 Mass balance exercise (calculations) <i>SMR/MCR</i>	10:45 - 12:15 Energy recovery and gas emission from sludge handling <i>EL</i>	10:45 - 12:15 Energy recovery and gas emission from sludge handling <i>EL</i>	10:45 - 13:15 Optimization exercise (incl. 15 min break) <i>JM/EP</i>	10:45 - 13:15 EIA at wastewater treatment plants (incl. 15 min break) <i>AC/EL</i>				
	13:00 - 14:00 Lunch break	13:15 - 14:15 Lunch break	13:15 - 14:15 Lunch break	Approx. 13:30 - 14:30 Lunch break	13:15 - 14:15 Lunch break	Approx. 13:15 - 14:15 Lunch break	13:15 - 14:15 Lunch break	Approx. 13:15 - 14:15 Lunch break	Carry-out lunch	13:15 - 14:15 Lunch break	13:15 - 14:15 Lunch break	13:00 - 14:00 Lunch break	Departure from Cagliari
	14:00 - 15:30 Integrated systems for nutrient removal - introduction to the topic <i>JM</i>	14:15 - 15:45 Gas emission assessment: Comparison of aerobic and anaerobic wwtp <i>SMR/MCR</i>	14:15 - 16:45 New trends and challenges in wwtp treatment (MBBR, gran sludge) (incl. 15 min break) <i>AC/SM</i>	14:30 - 15:15 Biogas production exercise part 2 <i>AM/GC</i>	14:30 - 15:15 Biogas production exercise part 2 <i>AM/GC</i>	15:00 - 16:30 Monitoring and control of WWTP for decreasing energy consumption <i>SMR</i>	15:00 - 16:30 Monitoring and control of WWTP for decreasing energy consumption <i>SMR</i>	14:15 - 15:00 Heat recovery from wastewater part 2 <i>JMU</i>	Sight-seeing trip out of Cagliari	14:15 - 13:15 Group exercise - meeting 5 (report writing, preparing the presentations)	14:30 - 15:30 Final test	14:00 - 15:30 Course wrap-up/ Certificates/ Evaluation	
	15:45 - 17:15 Innovative nitrogen removal systems based on Anammox process <i>EP</i>	16:00 - 17:30 Group exercise - meeting 1	17:00 - 18:30 Group exercise - meeting 2	15:30 - 16:15 Management and utilization of biogas <i>EL</i>	16:15 - 17:45 Group exercise - meeting 3	16:45 - 18:15 Group exercise - meeting 4	16:45 - 18:15 Group exercise - meeting 4	16:45 - 18:15 Group exercise - meeting 4			20:00 - ?? Informal meeting in town		
	Arrival of Swedish students to Cagliari - accomodation at hotel Italia												
	Arrival of Polish students to Cagliari - accomodation at hotel Italia	19:30 - ?? Integration meeting											

Lecture	Exercise	Group exercise	Trips and visits	Meetings and others
PK	KTH	DIGITA		