

Industrial wastewater treatment and management (incl. residuals), example timetable

Time		DAY1: Wastewater		Time		DAY2: Tertiary treatment; Sludge	
From	To		Presentation title, topics	From	To		Presentation title, topics
9:00 AM	9:15 AM		Coffee and registration	8:15 AM	8:30 AM		Coffee
9:15 AM	9:45 AM	1	Introduction and rationale Wastewater quality and treatment objectives Residuals (sludge) sources and characteristics	8:30 AM	10:00 AM	7	Tertiary treatment Media and membrane filtration Chemical and UV disinfection
9:45 AM	10:30 AM	2	Summary of processes Wastewater and sludge treatment process types				
10:30 AM	10:45 AM		Coffee	10:00 AM	10:15 AM		Coffee
10:45 AM	12:15 PM	3	Preliminary and primary treatment Screening Sedimentation and dissolved air flotation	10:15 AM	11:15 AM	8	Sludge thickening and dewatering Gravity belt, Rotary drum filtration, etc
12:15 PM	1:00 PM	4	Biological treatment fundamentals Biochemistry and principles of biological treatment	11:15 AM	12:15 PM	9	Sludge dewatering Centrifugation, screw and rotary press Filter press and bag filters, lagoon/reed bed
1:00 PM	2:00 PM		Lunch	12:15 PM	1:15 PM		Lunch
2:00 PM	3:45 PM	5	Suspended growth processes Classical activated sludge, moving bed bioreactor, Integrated fixed film AS, membrane bioreactor	1:15 PM	2:30 PM	10	Biological stabilisation Aerobic/anaerobic digestion
				2:30 PM	3:00 PM	11	Drying/additional treatment High temperature drying, composting
3:45 PM	4:00 PM		Coffee	3:00 PM	3:15 PM		Coffee
4:00 PM	4:45 PM	6	Fixed film processes Trickling filter, rotating biological contactor, etc	3:15 PM	3:45 PM	12	Energy/Resource Recovery Incinerator heat, biogas and struvite recovery
4:45 PM	5:00 PM		Q&A	3:45 PM	4:00 PM		Q&A