

Summer course 12906 Modeling of Plant Uptake June 2013 at DTU Lyngby, DK

Course plan and schedule

Day	Time	Teacher	Title
Monday Standard model	09:15		Breakfast and coffee
	09:45	stt	Hallo and Admin
	10:20	stt	Processes
	10:35	stt	Partition coefficients
	11:00	stt	Standard model (after a coffee break)
	12:00	stt	Urban Gardening
	12:30		Lunch break
	13:30		Classroom exercise
	14:15	Lauge Clausen	Prepare tree test
	15:00	Bill Doucette Damien	Lecture Bill Doucette TSCF
	15:45	Bolinius	PhD presentation, cycling of POCs
	16:00	volunteer	PhD presentation 2
	Late:		S-hus
Tuesday Dynamic modeling	09:15		Breakfast and coffee
	09:17	stt	One hour math
	10:15		Exercise phytoextraction
	10:45	stt	Cascade model (after a coffee break)
	11:15		Exercise cascade model
	12:30		Lunch break
	13:30	all	Weigh trees
	13:45		Exercise continued, results
	14:30	Peter Fantke	Analyzing pesticide dissipation in food crops
	14:55		coffee break
			Uptake of a Reduced Risk Crop Protection Chemical into Tomato Fruit and Foliage under Hydroponic Conditions: Application to Calibration of a Plant/Soil Uptake Model'.
	15:05	C McKennedy	?
	15:30	Cafer Turgut	?
16:00	Otoniel C. Diaz	Constructed wetlands	
16:15	volunteer	PhD presentation	
19:00		Course dinner at Fortunen (confirmed)	
Wednesday Soil&Plant	09:15		Breakfast and coffee
	09:17	Jens Streibig	Pesticide Application, transport and effects
	10:00	stt	Buckets model soil
	10:30		Exercises (after a coffee break)
	12:30		Lunch
	13:30	Arno Rein	Water balance of soil
	14:15	Danielle Sayer	Modelling Pesticide Movement in Soil and Plants
	14:45	Peter Fantke	Dynamic multi-crop model for exposure via food intake
	15:10	Peter Fantke	Exercises: Assessment of pesticides in food crops
	15:30	Trine Eggen	Uptake and translocation of emerging organic pollutants in different high-volume crops
	16:00	Z. Sudikova	Study of modern pesticides transport
16:15	N. Rotbart	Effect of irrigation on N	

Thursday Ionics, Cell model	09:15	stt	Cell model
	09:45		Exercises
	10:30		Standard model for ionics
	11:00	stt	Translaminar leaf model
	11:15		Exercises
	12:30		Lunch
	13:30	all	measure tree weight, conductivity Plant uptake with three different agricultural crops and eight different pesticides / metabolites as a function of pH in the uptake solution under greenhouse conditions
	14:00	Victor Gourlay	
	14:30	Anke Buchholz	The use of «AI localization models» in Chemistry Research Pharmaceuticals removal by plants and constructed wetlands systems
	15:00	Pedro Carvalho	Analysis of a FWS integrated constructed wetland, treating abattoir waste waters
15:30	John Byrne		
16:00	Myah Goldstein Ahmed	Uptake and translocation of pharmaceuticals in plants	
16:15	Mahmoud	Field site remediation with soil washing	
Friday Phytoremediation	09:15	stt	Phytoscreening and Phytoremediation
	10:30	Mette Algreen	exercise tree coring
	11:00	Lauge Clausen	Result from the tree toxicity test and lecture salt, fluoride
	11:30	Bill Doucette	TCE in trees
	12:00		Project exercise for PhD students
	13:00		lunch or end

PhD presentations (days are suggestions)

Monday Damien Bolinius: Investigating thermodynamic controls on the cycling of persistent organic chemicals (POCs) in forest systems

Tuesday Otoniel C. Diaz: The removal of selected organic micropollutants from domestic wastewater by two different types of horizontal flow constructed wetlands

Wednesday Zuzana Sudikova: Study of modern pesticides transport

Wednesday Nativ Rotbart: The effect of irrigation with reclaimed wastewater on N-transformations in soil in the presence of plants.

Thursday Myah Goldstein: Uptake and translocation of pharmaceuticals and personal care products (PPCPs) in plants: mechanisms and pathways

Thursday or Friday AHMED MOHAMED Mahmoud: Field site remediation with soil washing at Solec in Poland (TIMBRE project)

Other presentations ad hoc, there are some time slots left free. **Changes possible.**