ERICA Workshop and Training School: Modelling, Sustainability/Durability, NMR Practice

11th - 15th June 2018

Old Thorns Hotel, Liphook, UK

	Monday 11 th June 2018	Lead	
08:30	Poro-mechanics:lecture	Bernhard Pichler	
		TU Wien	
10:30	Tea/coffee		
10:50	Poro-mechanics:lecture		
12:30	Lunch		
13:30	Poro-mechanics: exercises		
15:00	Tea/coffee		
15:30	Monte-Carlo simulations: introduction	David Faux	
		University of Surrey	
16:15	Monte Carlo Practicals		
18:00	Formal end of day		
Tuesday 12 th June			
09:00	Monte Carlo Feedback Session and Discussion	David Faux	
		University of Surrey	
10:00	Molecular Dynamics:Introduction, Potentials		
11:00	Tea/coffee		
11:20	Molecular Dynamics: Structure and Dynamics;		
10.00	Packages		
13:00	Lunch		
14:00	Molecular Dynamics: Practical		
15:30	Tea/Coffee		
15:50	continued: MD practicals		
17:15	MD Feedback Session and Discussion		
18:15	Formal end of day		
Wednes	day 13 th June		
08:30	Sustainability: lecture. (see details below)	Christian Artelt, Martin Crow HTC	
10:15	Tea Coffee		
10:30	Workshop: Product evaluation		
12:30	Lunch		
13:30	Sustainability	Karen Scrivener EPFL	
15:30	Tea and Coffee		
15:50	Project Progress Updates	ESRs	
18:00	Formal end of day		
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Thursday 14 th June				
08:30	Introduction to NMR	Peter McDonald		
		University of Surrey		
10:30	Tea/Coffee			
10:50	Imaging and Diffusion			
12:30	Lunch			
13:15	Minibus to University			
13:45	NMR Practicals. Lab. H&S	Agata Gajewicz University of Surrey		
14:00	FID and CPMG			
15:30	Tea / Coffee			
15:45	Imaging and Diffusion			
17:15	Close of day			
	evening in Guildford			
21:30	Minibus back to Old Thornes			
Friday				
09:30	NMR in cements	Peter McDonald		
		University of Surrey		
11:00	Tea/Coffee			
11:20	NMR data analysis			
12:45	Lunch			
13:30	Minibus to MR Solutions			
14:00	MR Solutions	Peter Doughty MR Solutions		
15:15	Minibus to Heathrow			

HTC lecture breakdown for Wednesday morning

Item 1	Topic	Presented by
1 (5 min)	Introduction of workshop facilitators	CA, MC
2 (20 min)	Introduction of HeidelbergCement and Hanson UK	CA, MC
3 (30 min)	Sustainable product innovation at HeidelbergCement Innovation drivers Reduction of the CO2 footprint of cement & concrete Circular economy, resource efficiency Production costs Customer added value Sustainable construction solutions Innovative products	CA

4	Environmental Sustainability at HeidelbergCement	CA
(30 min)	Sustainability Commitments 2013	
	Biodiversity	
	Sustainable Construction	
	 Protecting the climate (CCU and CCS projects) 	
	• CSR	
5	Project examples at Hanson UK	MC
(30 min)		
6	Workshop: Product evaluation – what makes a product sustainable?	CA, MC
(2 hour)	• Intro (5 min)	
	• Work in 2-3 groups (25 min)	
	• Presentation of results (5 min each)	
	• Discussions (15 min)	