

	Monday	Tuesday	Wednesday	Thursday	Friday
9.00	Welcome, Course intro Corrosion: impact, intro & definitions, <i>Dessi Koleva</i>	Corrosion mechanisms Parts 1 & 2 corrosion types, <i>Dessi Koleva</i>	Steel corrosion in reinforced concrete (RC), Part 1 <i>Dessi Koleva</i>	Cathodic protection (CP) in reinforced concrete (part 1 + criteria & standards; portable devices, <i>Dessi Koleva</i>	Practical session 5* part 1 - lab (reinforced concrete + CP – criteria & effectiveness)
9.45 10.30	Electrochemical terminology + (interactive)	Kinetics electrochemical corrosion, polarization, Evans diagrams.	Steel corrosion in reinforced concrete (RC), Part 2	Durability reinforced concrete: micromechanics <i>Erik Schlangen/Branko Savija</i>	
10.30	<i>Coffee break</i>				
10.45 11.45	Electrochemical thermodynamics + (interactive)	Mixed potential theory. Passivity – general intro	Corrosion science & control in research & practice - Part 1 (RC – steel & bulk matrix properties)	Durability reinforced concrete: role of cracks, interfaces; practical examples <i>Erik Schlangen/Branko Savija</i>	Corrosion science & control in research & practice Part 2 (nano-materials, self-healing, coatings) <i>Dessi Koleva</i>
11.45 12.30	Workshop Metrohm	Electrochemical methods (corrosion state & rate) + (interactive)	Reinforced concrete: synergy electrochemistry & concrete material science (monitoring & exp. design)		
12.30	<i>Lunch break</i>				
13.30 14.30	Pitches participants (optional)	Practical session 2 (metals; steel model medium)	Workshop/demo Electron microscopy steel/cement paste interface <i>Arjan Thijssen / Dessi Koleva</i>	Practical session 4* (reinforced concrete, large scale tests, portable devices) <i>Dessi Koleva/John vd Berg</i> 13.30 – 15.30 – large scale 15.30 – 17.30 - lab	Practical session 5* part 2 - lab (reinforced concrete + CP)
15.00 16.00	Practical session 1 (metals)		Practical session 3 (reinforced concrete)		
16.00 17.30	<i>*Changes in schedule possible due to weather condition</i>				
18.30 20.00			Course dinner restaurant Delft centre	Drinks – PSOR CITG, TU Delft	
					Q & A Certificates Closure