

Educational Workshop on Concrete Science & Advanced Methods for
Evaluation of Concrete
May 9 - 11, 2018
at Germann Instruments in Evanston IL

Module	Topic	Start	End
Day 1 - May 9			
	Registration-Coffee	8:00	8:30
0	Welcome and Introductions	8:30	8:55
1	Testing Cores	8:55	9:55
2	Rebound Hammer	9:55	10:25
	Coffee Break	10:25	10:40
3	Pullout Test (LOK-Test, CAPO-Test)	10:40	11:20
4	Pull-off Test	11:20	11:40
	Demonstrations (Pullout, Pull-off)	11:40	12:40
	Lunch	12:40	13:40
5	In-Place Strength-Case Study	13:40	14:05
6	Maturity Method	14:05	15:00
	Coffee Break	15:00	15:15
7	Reinforcement Location (Covermeter GPR)	15:15	16:40
	Demonstration (Covermeter and GPR)	16:40	17:25
	Feed back session	17:25	17:35
Day 2 - May 10			
	Review session	8:15	8:30
8	Introduction to Stress Waves	8:30	9:15
9	Ultrasonic Pulse Velocity	9:15	9:55
	Demonstrations (UPV, Surfer)	9:55	10:15
	Coffee Break	10:15	10:30
10	Impact-Echo Method	10:30	11:20
11	Impulse-Response Method	11:20	11:55
12	Ultrasonic-Echo Method (MIRA)	11:55	12:35
	Lunch	12:35	13:35
	Demonstrations (I-E, I-R, MIRA)	13:35	14:35
13	Principles for Durability, Water Penetration	14:35	15:15
	Coffee Break	15:15	15:30
14	Corrosion Basics, Chlorides, Carbonation	15:30	16:15
	Demonstrations (GWT, RCT)	16:15	16:45
	Feed back session	16:45	16:55
Day 3 - May 11			
	Review session	8:15	8:30
15	Chloride Profile & Service Life Estimation	8:30	9:15
	Demonstrations (Profile Grinder)	9:15	9:30
16	Half-cell Potential, Resistivity & Corrosion Rate	9:30	10:15
	Coffee Break	10:15	10:30
17	Rapid Chloride Ion Penetration and Conductivity	10:30	11:00
	Demonstrations (GalvaPulse, PROOVE'it, Merlin)	11:00	11:40
18	Autogenous Shrinkage and Cracking Potential	11:40	12:25
	Lunch	12:25	13:25
19	Thermal Control	13:25	13:55
20	Air-void Analyzer	13:55	14:30
21	Concrete Rheology Measurement	14:30	15:15
	Demonstration (AVA, ICAR Rheometer)	15:15	15:45
22	Summary - Presentation of Certificates	15:45	16:05
	Feed back session	16:05	16:15