

**Educational Workshop on-Advanced Methods for Evaluation of Concrete**

**Schedule**

**November 20-22, 2019**

**Stavros Niarchos Foundation Cultural Center, Athens**

<b>Module</b>	<b>Topic</b>	<b>Start</b>	<b>Duration (min)</b>	<b>End</b>	<b>Instructor</b>
<b>Day 1 - November 20</b>					
	Registration	9:00	30	9:30	
0	Welcome and Introductions	9:30	15	9:45	N. Carino
1	Inspection of Structures in the Future	9:45	30	10:15	A. Gotzamanis
2	Bridge Inspection in Finland	10:15	30	10:45	G. Rapaport
	<b>Coffee Break</b>	10:45	20	11:05	
3	EN Standards on In-place Strength	11:05	35	11:40	N. Carino
4	Testing Cores ASTM Standard	11:40	40	12:20	N. Carino
5	Pullout Test (LOK-Test, CAPO-Test)	12:20	40	13:00	N. Carino
	<b>Lunch</b>	13:00	60	14:00	
6	Rebound Hammer	14:00	30	14:30	N. Carino
7	Pull-off Test	14:30	25	14:55	N. Carino
8	In-Place Strength - Case Study	14:55	25	15:20	A. Mozcko
	<b>Coffee Break</b>	15:20	20	15:40	
9	Thermal Control	15:40	30	16:10	N. Carino
10	Autogenous Shrinkage and Cracking Potential	16:10	30	16:40	N. Carino
11	ICAR Rheometer	16:40	30	17:10	N. Carino
<b>Day 2 - November 21</b>					
12	Covermeter	9:00	30	9:30	N. Carino
13	Ground Penetrating Radar	9:30	35	10:05	N. Carino
14	Introduction to Stress Waves & Pulse Velocity	10:05	50	10:55	N. Carino
	<b>Coffee Break</b>	10:55	20	11:15	
15	Impact-Echo Method	11:15	40	11:55	N. Carino
16	Impulse-Response Method	11:55	30	12:25	N. Carino
17	Ultrasonic-Echo Method (MIRA)	12:25	35	13:00	N. Carino
	<b>Lunch</b>	13:00	60	14:00	
18	Evaluation of Bridge Decks	14:00	30	14:30	G. Rapaport
19	Evaluation of Post Tensioned Bridges	14:30	30	15:00	G. Rapaport
20	Principles for Durability	15:00	30	15:30	N. Carino
	<b>Coffee Break</b>	15:30	20	15:50	
21	Corrosion Basics, Chlorides, Carbonation	15:50	30	16:20	N. Carino
22	Case Studies on Chloride Profile and Service Life	16:20	35	16:55	H. Orozco
23	Half-Cell Potential, Corrosion Rate & Cathodic Protection	16:55	35	17:30	N. Carino
24	Rapid Chloride Ion Penetration and Conductivity	17:30	25	17:55	H. Orozco
<b>Day 3 - November 22</b>					
	Demonstrations	9:00	300	14:00	
	Summary - Certificates	14:00	30	14:30	
	Lunch	14:30	120	16:30	