

## LIBERTY BELL CORROSION COURSE

# **CONCRETE CORROSION CONTROL**

## February 11 and 12, 2009

LOCATION: Williamson's Restaurant & Conference Center, Easton Road and Blair Mill Road, Horsham, PA 19044

This is an interactive course on corrosion control technology. Recognized experts from leading-edge companies will be presenting classes on a variety of topics.

#### Sponsored by NACE International

#### **Course Schedule**

Wednesday, February 11, 2009					
Class Period		Topic	Instructor		
7:30	8:00	Registration			
8:00	9:30	Basics of Corrosion and CP Fundamentals - Discussion of basic corrosion theory, types of corrosion, how it	Siva Venugopalan,		
		differs from steel in water and soil, properties of concrete, and the rate of corrosion of steel in concrete.	Siva Corrosion Services, Inc.		
		Impressed Current Cathodic Protection - Theory of impressed current cathodic protection, how it is applied,			
9:30	10:30	materials used, installation, advantages and disadvantages, and costing.	Clem Firlotte,		
		Examples of Impressed Current CP - Highways, bridges, parking garages, tunnels, airports, marine	Corrpro Companies		
		structures, water & waste water structures, pipelines, and other structures.			
10:30	11:00	Break			
	11:45	Stray Current Corrosion - Time varying and steady state stray current, sources and methods of testing and			
11:00		control.	Ed Wetzel, UTRS		
11:45	1:15	Lunch provided by LBCC			
		Galvanic Cathodic Protection - Theory of galvanic cathodic protection, levels of protection, how it is applied,			
		materials used, installation, advantages, disadvantages, and costing.			
		Examples of Galvanic CP - Highways, bridges, parking garages, tunnels, airports, marine structures, water			
1:15	3:15	& waste water structures, pipelines, and other structures.	David Whitmore, Vector		
3:15	3:45	Break			
			Claus Peterson,		
3:45	5:00	Non-Destructive Testing for Corrosion - In-Situ corrosion test systems for reinforced concrete,	Germann Instruments		
		non-destructive evaluation, and equipment demonstrations.			

Thursday, February 12, 2009				
Class Period		Topic	Instructor	
		Monitoring & Troubleshooting CP Systems - Evaluating the effectiveness of CP systems, troubleshooting	Siva Venugopalan,	
8:30	10:00	rectifiers, and identifying problems with CP systems.	Siva Corrosion Services, Inc.	
10:00	10:30	Break		
			Ted Hopwood,	
10:30	11:45	Coatings for Concrete & Steel Structures — Use of steel coatings to address corrosion problems.	Kentucky Transportation Center	
11:45	1:30	Lunch provided by LBCC		
		Admixtures for Concrete - Use of admixtures to achieve increased corrosion resistance, includes Concrete		
1:30	2:30	101.	Rod Meyers, BASF	
2:30	2:45	Break		
		Environmental Benefits of CP - a detailed discussion on how CP will provide a positive impact on the		
		environment, quantify the benefits to the environment, and our role as responsible users of various	Ben Witter,	
2:45	3:30	infrastructure systems.	Siva Corrosion Services, Inc.	
3:30	4:30	Q & A	All Instructors	

Fees: Advanced (before December 31, 2008): NACE Member \$350.00 Non-member \$350

Onsite (on or after December 31, 2008): \$370.00

One day registration: NACE member or non-member: \$185.00

Obtain registration form online at www.nace-philapa.org

For Further Information: Contact Ben Witter, Siva Corrosion Services, Inc. (610) 692-6551

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