



PCA Education Foundation  
**2018 Professors' Workshop**  
 Teaching: Materials | Pavements | Structures

# DRAFT Schedule At-A-Glance

COLOR KEY / TRACK	VENUE
PLENARY	at CTLGroup
MATERIALS	in PCA East Classroom M-W, West Classroom TH
STRUCTURES (Buildings & Bridges)	in PCA West Classroom
PAVEMENTS	in PCA East Classroom
LUNCH, BREAK, or RECEPTION	(Venue as noted)

## Monday, July 23, 2018

## Tuesday, July 24, 2018

## Wednesday, July 25, 2018

## Thursday, July 26, 2018

## Friday, July 27

8:00 AM		
8:30 AM	Welcome, Intros, and Overview	
9:00 AM		
10:00 AM	Introduction to Concrete	
10:20 AM	BREAK	
10:45 AM	Market Intelligence	
11:10 AM	ACI Resources for the Classroom	
11:20 AM		
12:00 PM	3D Printing	
1:00 PM	LUNCH (at CTLGroup)	
2:00 PM	Mix Design	Effective Teaching of RC Design
3:00 PM		Models for Teaching Structural Concrete
3:20 PM	NETWORKING BREAK (Library)	
4:10 PM	Cement and Hydration	Strut-and-Tie Method Design by ACI 318-14
5:00 PM	SCMs	Controlling Cracking
6:00 PM		
6:30 PM	RECEPTION (at the Hampton Inn)	
7:00 PM		
7:30 PM		

Aggregates	Modern Concretes
Chemical Admixtures	Structural Design by ACI 318-14
BREAK	
Durability	
CRSI Reinforced Concrete Building Capstone Course: An Overview	
LUNCH (at CTLGroup)	
Fresh Concrete Properties	Steel Reinforced Concrete Essentials: Part 1
Placing and Finishing Concrete	Steel Reinforced Concrete Essentials: Part 2
NETWORKING BREAK (StructurePoint)	
Curing	Software Modeling, Analysis, and Design
Hardened Concrete Properties	
RECEPTION (PCA Courtyard)	

Shotcrete	Economical Design of Structures
Codes and Standards	
BREAK	
Bridges: Teaching Resources National Concrete Bridge Council and FHWA Office of Bridges and Structures	
Philosophy of Engineering for the Burj Khalifa, the World's Tallest Tower	
LUNCH (at CTLGroup)	
Integrated Pavement Solutions	Advanced Analysis and Design Concepts of Post-Tensioned Bridge Superstructures: Part 1
Concrete Pavement Overview	
NETWORKING BREAK (Library)	
Concrete Pavement Overview (cont.)	Advanced Analysis and Design Concepts of Post-Tensioned Bridge Superstructures: Part 2
Joint Layout & Design	
DINNER & RECEPTION (Magianno's)	

Pavement Design Software Tools	ACI 318-14 CH 19 and 26
Performance-Based Specifications	
BREAK	
The PCI Design Handbook, 8th Edition	
TOUR OF CTLGroup LABS	
LUNCH (at CTLGroup)	
Mixtures for Pavements	Masonry
Construction Methods	Teaching Prestressed Concrete Design
NETWORKING BREAK (Library)	
Maintenance & Preservation	PCI Design / Precast Plants
Sustainable Pavements	PCI Big Beam

8:00 AM		
8:30 AM	Concrete Overlays	
9:00 AM		
10:00 AM	Concrete Pavers	
10:20 AM	BREAK (Library)	
11:15 AM	Roller Compacted Concrete	
12:00 PM	Paving Tools	
1:00 PM		
2:00 PM		
3:00 PM		
3:20 PM		
4:10 PM		
5:00 PM		
6:00 PM		
7:00 PM		
7:30 PM		

Updated:5/29/18