



**2021 ABC-UTC RESEARCH DAY 2**  
**Thursday, November 4, 2021**  
**AGENDA**  
**(ABC-UTC CYCLE 4 PROJECTS)**

**FLORIDA INTERNATIONAL UNIVERSITY (LEAD)**

NAME OF PI	Project	Time
DR. ARMIN MEHRABI	Welcome by ABC-UTC Director of Research, Dr. Armin Mehrabi	10:00 am - 10:10am
DR. ALI EBRAHIMIAN	Integrated Flood and Socio-Environmental Risk Analysis for Prioritizing ABC Activities	10:10 am - 10:30 am
DR. ATOROD AZIZINAMINI	Use of all Lightweight Concrete in Conjunction with UHPC Connection for Prefabricated Barrier System	10:30 am - 10:50 am
ANTHONY ABRAHAO	Construction of Three Large-Scale Robots Capable of Constructing UHPC Shell, Repair of Culvert and Automated MFL	10:50 am -11:10 am
DR. CARLOS M. CHANG	Life-Cycle Cost Analysis of Ultra High Performance Concrete (UHPC) in Retrofitting Techniques for ABC Projects	11:10 am - 11:30 am
DR. MOHAMED ELZOMOR	Developing ABC Success Index to Support Contractors During Pre-Project Planning	11:30 am -11:50 am

**UNIVERSITY OF OKLAHOMA**

NAME OF PI	Project	Time
DR. MATTHEW REYES	Project Management Plans to Support Successful Delivery of Accelerated Bridge Construction Projects	11:50 am - 12:10 pm
DR. ROYCE FLOYD	Design Guidance for UHPC Connections of Precast Girders made Continuous for Live Load	12:10 pm - 12:30 pm

**COLLABORATION (FIU,UNR,OU)**

DR. ISLAM MANTAWY DR. MUSHARRAF ZAMAN DR. MOHAMED MOUSTAFA	Risk and Resilience of Bridges: Toward Development of Hazard-Based Assessment Framework, Research Needs, and Benefits of Accelerated Construction	12:30 pm – 12:55 pm
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<b>5-MINUTE BREAK</b>	<b>12:55 PM – 1:00 PM</b>
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<b>UNIVERSITY OF NEVADA, RENO</b>		
<b>NAME OF PI</b>	<b>Project</b>	<b>Time</b>
<b>DR. MOHAMED MOUSTAFA</b>	Robust Methods for UHPC Early-Strength Determination and Quality Control for ABC	1:00 pm - 1:20 pm
<b>DR. MOHAMED MOUSTAFA</b>	Towards Autonomous Drone-Based Dynamic and Seismic Response Monitoring of Bridges	1:20 pm - 1:40 pm

<b>UNIVERSITY OF WASHINGTON</b>		
<b>NAME OF PI</b>	<b>Project</b>	<b>Time</b>
<b>DR. TRAVIS THONSTAD</b>	Exploring Fiber-Reinforced Polymer Concrete for Accelerated Bridge Construction Applications	1:40 pm - 2:00 pm
<b>DR. DAWN LEHMAN</b>	Impact of Construction Eccentricity on Direct Pier-to-Pile Connections for Permanently Cased Shaft (CFST) Piles	2:00 pm - 2:20 pm

<b>IOWA STATE UNIVERSITY</b>		
<b>NAME OF PI</b>	<b>Project</b>	<b>Time</b>
<b>DR. JUSTIN DAHLBERG</b>	Investigation of The Efficacy of Helical Pile Foundation Implementation in Accelerated Bridge Construction Projects – Phase 2	2:20 pm - 2:40 pm
<b>DR. JUSTIN DAHLBERG</b>	Multi-Span Lateral Slide Laboratory Investigation: Phase 2	2:40 pm - 3:00 pm

<b>DR. ARMIN MEHRABI</b>	<b>Wrap up by ABC-UTC Director of Research</b>	<b>3:00 pm – 3:05 pm</b>
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