



**2021 ABC-UTC RESEARCH DAY 1**  
**Thursday, April 29, 2021**  
**AGENDA**  
**(ABC-UTC CYCLE 4 PROJECTS)**

**FLORIDA INTERNATIONAL UNIVERSITY (LEAD)**

<b>NAME OF PI</b>	<b>Project</b>	<b>Time</b>
<b>DR. ARMIN MEHRABI</b>	<b>Welcome by ABC-UTC Director of Research, Dr. Armin Mehrabi</b>	<b>10:00 am - 10:10am</b>
<b>DR. ATOROD AZIZINAMINI</b>	Use of all Lightweight Concrete in Conjunction with UHPC Connection for Prefabricated Barrier System	10:10 am - 10:25 am
<b>DR. CARLOS M. CHANG</b>	Life-Cycle Cost Analysis of Ultra High Performance Concrete (UHPC) in Retrofitting Techniques for ABC Projects	10:25 am - 10:40 am
<b>DR. ALI EBRAHIMIAN</b>	Integrated Flood and Socio-Environmental Risk Analysis for Prioritizing ABC Activities	10:40 am -10:55 am
<b>ANTHONY ABRAHAO</b>	Construction of Three Large-Scale Robots Capable of Constructing UHPC Shell, Repair of Culvert and Automated MFL	10:55 am - 11:10 am
<b>DR. MOHAMED ELZOMOR</b>	Developing ABC Success Index to Support Contractors During Pre-Project Planning	11:10 am -11:25 am

**UNIVERSITY OF OKLAHOMA**

<b>NAME OF PI</b>	<b>Project</b>	<b>Time</b>
<b>DR. MATTHEW REYES</b>	Project Management Plans to Support Successful Delivery of Accelerated Bridge Construction Projects	11:25 am - 11:40 am
<b>DR. ROYCE FLOYD</b>	Design Guidance for UHPC Connections of Precast Girders made Continuous for Live Load	11:40 am - 11:55 am

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

<b>DR. ISLAM MANTAWY DR. MUSHARRAF ZAMAN DR. MOHAMED MOUSTAFA</b>	Risk and Resilience of Bridges: Toward Development of Hazard-Based Assessment Framework, Research Needs, and Benefits of Accelerated Construction	11:55 am – 12:15 pm
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<b>10-MINUTE BREAK</b>	<b>12:15 PM – 12:25 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	12:25 pm - 12:40 pm
<b>DR. MOHAMED MOUSTAFA</b>	Towards Autonomous Drone-Based Dynamic and Seismic Response Monitoring of Bridges	12:40 pm - 12:55 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	12:55 pm - 1:10 pm
<b>DR. JUSTIN DAHLBERG</b>	Multi-Span Lateral Slide Laboratory Investigation: Phase 2	1:10 pm - 1:25 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	1:25 pm - 1:40 pm
<b>DR. CHARLES ROEDER</b>	Impact of Construction Eccentricity on Direct Pier-to-Pile Connections for Permanently Cased Shaft (CFST) Piles	1:40 pm - 1:55 pm

<b>DR. ARMIN MEHRABI</b>	<b>Wrap up by ABC-UTC Director of Research</b>	<b>1:55 pm – 2:00 pm</b>
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