

2020 ABC-UTC Research Day I

(FINAL SCHEDULE)

Monday, April 27, 2020

(ABC-UTC 2016 Cycle 3 Projects)

FLORIDA INTERNATIONAL UNIVERSITY (LEAD)

Name Of PI	Project	Time (Eastern)
Armin Mehrabi	Welcome by ABC-UTC Director of Research, Armin Mehrabi	10:30 am - 10:40 am
Dr. Armin Mehrabi	Alternative Materials and Configurations for Prestressed-precast Concrete Pile Splice Connection	10:40 am - 10:55 am
Dr. Mohamed ElZomor	Alternative Technical Concepts for Contract Delivery Methods in Accelerated Bridge Construction	10:55 am - 11:10 am
Dr. Atorod Azizinamini	Use of UHPC in Conjunction with Pneumatic Spray Application and Robotic for Repair and Strengthening of Culverts- Phase I	11:10 am - 11:25 am
Dr. Atorod Azizinamini	Robotic Bridge Construction: Experimental Phase I	11:25 am - 11:40 am
Dr. Atorod Azizinamini	Automated MFL System for Corrosion Detection	11:40 am - 11:55 am
Dr. Islam Mantawy	Work Zone Safety Analysis, Investigating Benefits from Accelerated Bridge Construction (ABC) on Roadway Safety	11:55 am - 12:10 pm
Dr. Islam Mantawy	Prefabricated Barrier System Utilizing UHPC Connections	12:10 pm - 12:25 pm
Dr. Islam Mantawy	Rapid Repair and Retrofit of Timber Piles Using UHPC	12:25 pm - 12:40 pm
Dr. Lu Zhang	Understanding Critical Impacting Factors and Trends on Bridge Design, Construction, and Maintenance for Future Planning	12:40 pm - 12:55 pm
Dr. Arif Sadri	Complex Networks Perspectives Towards Accelerated Bridge Construction (ABC)	12:55 pm - 1:10 pm

UNIVERSITY OF NEVADA, RENO

Name Of PI	Project	Time (Eastern)
Dr. Elnaz Seylabi	Quantitative Assessment of Soil-Structure Interaction (SSI) Effects on Seismic Performance Of Bridges With ABC Connections	1:10 pm - 1:25 pm
Dr. Hamed Ebrahimian	Investigating the Potential Applications of Elastomeric Polymers (Such As Polyuria And Polyurethane) For Accelerated Bridge Construction And Retrofit	1:25 pm - 1:40 pm
Dr. Mohamed Moustafa	Application of Methacrylate Polymers for Seismic ABC Connections	1:40 pm - 1:55 pm

UNIVERSITY OF OKLAHOMA

Name Of PI	Project	Time (Eastern)
Dr. Shima Mohebbi	Development of User-Friendly Tools and Decision-Making Algorithms For Service Life Design Of ABC Bridges	1:55 pm - 2:10 pm
Dr. Royce Floyd	Service Life Design Guidance for UHPC Link Slabs	2:10 pm - 2:25 pm

UNIVERSITY OF WASHINGTON

Name Of PI	Project	Time (Eastern)
Dr. Marc Eberhard	Design Guidelines for ABC Column-To-Drilled-Shaft Foundation Connections in Seismic Zones	2:25 pm - 2:40 pm
Dr. Dawn Lehman	Economic Pier-To-Pile Connections for Permanently Cased Shaft (CFST) Piles	2:40 pm - 2:55 pm

IOWA STATE UNIVERSITY

Name Of PI	Project	Time (Eastern)
Dr. Justin Dahlberg	Investigation of The Efficacy Of Helical Pile Foundation Implementation In Accelerated Bridge Construction Projects – Phase I	2:55 pm - 3:10 pm
Dr. Katelyn Freeseaman	Multi-Span Lateral Slide Laboratory Investigation: Phase 1	3:10 pm - 3:25 pm
Dr. Armin Mehrabi	Wrap up by ABC-UTC Director of Research	3:25 pm - 3:35 pm