



## **CICI Industrial Advisory Board (IAB)**

**Spring Virtual Meetings**  
June 16 and 18, 2020  
11:00AM to 1:00PM CDT  
(12:00PM to 2:00PM EDT)



UNIVERSITY  
OF MIAMI



**TEXAS A&M ENGINEERING  
EXPERIMENT STATION**

**NC STATE UNIVERSITY**





## OBJECTIVES

- Provide updates on the research agenda and discuss future collaborative projects for the Center for the Integration of Composites into Infrastructure (CICI);
- Welcome NSF PD, and new IAB Chair, and introduce membership agreement and Phase III Award

## CENTER PARTICIPANTS

### **West Virginia University (WVU) (lead)**

Dr. Hota GangaRao, Center Director  
Dr. Rakesh Gupta, Site Director  
Dr. Ruifeng Liang, Managing Director  
Dr. Yoojung Yoon  
Mr. Mark Skidmore, PE

### **University of Miami (UM)**

Dr. Antonio Nanni, Site Director  
Dr. Francisco De Caso y Basalo

### **North Carolina State University (NCSU)**

Dr. Rudi Seracino, Site Director  
Dr. Greg Lucier  
Dr. Jason Patrick  
Dr. Kara Peters  
Dr. Mark Pankow

### **Texas A & M University (TAMU)**

Dr. Anand Puppala, Site Director  
Dr. Surya S. C. Congress  
Dr. Sayantan Chakraborty

### **CIDESI in Queretaro, Mexico**

Dr. Edgar Franco, Site Director  
Dr. Mauricio Torres

### **National Science Foundation (NSF)**

Dr. Gregory Reed, Program Director  
Mr. Stephen McGregor, Evaluator

### **Industry Advisory Board (IAB)**

Dr. Vijaya Gopu, Chair  
Mr. Dustin Troutman, Past Chair

## Join Zoom Meeting

<https://tamu.zoom.us/j/99075594864>

Meeting ID: 990 7559 4864

One tap mobile

+13462487799,,99075594864# US (Houston)

+12532158782,,99075594864# US (Tacoma)

## Complete LIFE Form

Website: [iucrc.com](http://iucrc.com)

Password: CICI2020

Contact: Dr Ray Liang, [rliang@wvu.edu](mailto:rliang@wvu.edu); Dr Surya Congress, [congress@tamu.edu](mailto:congress@tamu.edu)

**Tuesday, June 16**

11:00 AM – 1:00 PM CDT

<https://tamu.zoom.us/j/99075594864>

## **Agenda**

Participants are requested to type in their self-introductions in the chat box

11:00 AM - Readout the Names of the Participants, Dr. Anand Puppala, Host at TAMU

11:02 AM - Greetings from Center Director, Hota Gangarao, WVU

11:04 AM - Greetings from NSF IUCRC Program Director, Dr Gregory Reed, NSF

11:06 AM - Brief Presentation on LIFE Form, Mr. Steve McGregor, Center Evaluator

11:10 AM - Technical Presentations (Table 1)

- Each presentation is 5~6 min long
- Pause for 1 minute for LIFE form completion
- Each university has a total presentation time up to 26 minutes
- Please present questions in LIFE form
- All questions are to be answered/addressed on June 18 Meeting
- Titles and other details of presentation see Table 1

11:10 AM - TAMU # 1 – 4

11:36 AM - NCSU # 5 – 8

12:02 PM - WVU # 9 – 13

12:28 PM - UM # 14 – 17

12:54 PM - Closing and announcement for June 18 Meeting

1: 00 PM - Adjourn



**Table 1. Technical Presentations at June 16 Virtual IAB Meeting**

#	Time & Thrust Area*	Title	Presenter
	11:10 AM (26 minutes)	<b>TAMU Site; Session Chair: Anand Puppala</b>	
1	A	Application of Geofom in Thermal Encapsulation of Foundations	Surya S. C. Congress
2	C & D	Utilization of Geocells in Pavement Infrastructure	Anand Puppala/ Ashraf Khan
3	C	Performance of pavement sections with H2Ri geosynthetics	Anand Puppala/ Nripojyoti Biswas
4	A & B	Mitigating Sulfate Heaving Using Novel Soil Stabilizers	Sayantan Chakraborty
	11:36 AM (26 minutes)	<b>NCSU Site; Session Chair: Rudi Seracino</b>	
5	C & D	CFRP Repair of RC Columns with Deficient Lap Splice	Sheng-Hsuan (Mike) Lin
6	A & C	GFRP Repair of Deteriorated Timber Piles	Karim Abdelwahab
7	C & D	Prestressed MF-FRP Repair of Deteriorated Prestressed Concrete Bridge Beams	Rudi Seracino
8	C & D	Repair of Precast Concrete Dapped End Beams	Greg Lucier
	12:02 PM (26 minutes)	<b>WVU Site; Session Chair: Hota Gangarao</b>	
9	B & C	Timber pile rehab with FRP composite wraps	Mark Skidmore
10	A & C	Design, implementation and evaluation of composites for new and existing Hyd structures	Mark Skidmore and Hota
11	C & D	Development of sheet pile wall test procedure	Mark Skidmore
12	A & C	Reviving rammed earth as a sustainable construction	Ray Liang and Hota Gangarao
13	B & D	Fire performance of FRP utility poles	Rakesh Gupta
	12:28 (26 minutes)	<b>University of Miami Site; Session Chair: Antonio Nanni</b>	
14	A	Physio-mechanical characterization of composites for infrastructure	Francisco De Caso
15	B	Durability evaluation of composites in coastal environments	Alvaro Ruiz
16	C	Coastal Structures Design and Implementation with composites	Christian Steputat
17	D	Propelling the use of FRP Composites with Meaningful Codes and Guidelines	Antonio Nanni

\*Note on Thrust Areas Designations:

**A - Materials Development and Characterization, Manufacturing, Recycling; B- Durability and Aging; C - Design Implementation and Evaluation; D - Codes, Specifications and Guide**



**Thursday, June 18**

11:00AM – 1:00PM CDT

<https://tamu.zoom.us/j/99075594864>

## **Agenda**

**Participants are requested to type in their self-introductions in the chat box**

11:00 AM - Readout the names of the participants, Dr. Anand Puppala, Host at TAMU

11:02 AM - Welcoming remarks and center status update, Drs. Hota and Liang, WVU

- IAB Status Update
- New Membership Fee Structure
- New Membership Agreement and Bylaws

11:15 AM - NSF IUCRC Presentation and Q&A, Dr. Gregory Reed, Program Director, NSF

11:35 AM - Update on Mexico Site Development, Dr Edgar Franco, CIDESI

11:40 AM - LIFE Form based Question/Answers, Mr. Steve McGregor, Center Evaluator

12:10 PM – Virtual Breakout Session: IAB Close Door Workshop, Dr. VJ Gopu, IAB Chair and other participants enter separate breakout room in Zoom

12:50 PM -How IAB Member Industries Coping with COVID Crisis? Dr. VJ Gopu, IAB Chair

- Commentary by Dr. Seracino. NCSU and Dr. Nanni, UM

12:55 PM - Future conference and closing remarks, Dr. Hota Gangarao

1:00 PM - Adjourn