



CICI Industrial Advisory Board (IAB)

Summer 2021 Virtual Meetings

May 26 and 28, 2021
11:00AM to 1:00PM CDT
(12:00PM to 2:00PM EDT)



UNIVERSITY
OF MIAMI



**TEXAS A&M ENGINEERING
EXPERIMENT STATION**

NC STATE UNIVERSITY





Center for Integration of Composites into Infrastructure

OBJECTIVE

- Provide updates on the research agenda and discuss future collaborative projects for the Center for the Integration of Composites into Infrastructure (CICI);

CENTER PARTICIPANTS

Texas A & M University (TAMU) (Lead)

Dr. Anand Puppala, Center Director
Dr. Surya Congress, Managing Director

West Virginia University (WVU)

Dr. Hota GangaRao, Site Director
Dr. Rakesh Gupta, Site Director
Dr. Ruifeng Liang,
Dr. Yoojung Yoon
Mr. Josh Wilt

University of Miami (UM)

Dr. Antonio Nanni, Site Director
Dr. Francisco De Caso y Basalo
Dr. Prannoy Suraneni
Dr. Landolf Rhode-Barbarigos

Dr. Luis Ruiz Pestana

North Carolina State University (NCSU)

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

National Science Foundation (NSF)

Dr. Prakash Balan, Program Director
Mr. Stephen McGregor, Evaluator

Industry Advisory Board (IAB)

Dr. Vijaya Gopu, Chair
Mr. John Busel, ACMA, Vice Chair

Join Zoom Meeting

<https://tamu.zoom.us/j/95757044355>

Meeting ID: 957 5704 4355

Find your local number: <https://tamu.zoom.us/u/adrStwRVch>

Complete LIFE Form

Website: iucrc.com

Password: CICI2021

Contact: Dr Surya Congress, congress@tamu.edu; Dr Ray Liang, rliang@wvu.edu;



May 26, 2021 (Wednesday)

11:00 AM – 1:00 PM CDT

<https://tamu.zoom.us/j/95757044355>

Agenda

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

11:00 AM - Greetings from Center Director, Dr. Anand Puppala, Host at TAMU

11:02 AM - Brief Presentation on LIFE Form, Mr. Steve McGregor, Center Evaluator

11:12 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 May 28 Meeting
- Titles and other details of presentation are provided in Table 1

11:12 AM - TAMU # 1 – 4 – Drs. Puppala and Congress

11:38 AM - WVU # 5 – 8 – Drs. Gangarao and Liang

12:04 PM - UM # 9 – 12 – Drs. Nanni and De Caso

12:30 PM - NCSU # 13 – 16 – Dr. Seracino

12:56 PM - Closing and announcement for May 28 Meeting

1: 00 PM - Adjourn

Table 1. Technical Presentations at May 26, 2021 Virtual IAB Meeting

#	Time & Thrust Area*	Title	Presenter
	11:12 AM (26 minutes)	TAMU Site; <i>Session Chair:</i> Anand Puppala	
1	A	Application of Geofoam in Thermal Encapsulation of Foundations	Surya S. C. Congress
2	C & D	Design and Testing of IFI Geosynthetic Products	Anand Puppala/ Ashraf Khan
3	C & E	Performance of Pavement Sections with Wicking Geosynthetics	Anand Puppala/ Nripojyoti Biswas
4	A & B	Mitigating Sulfate Heaving Using Novel Soil Stabilizers	Nripojyoti Biswas
	11:38 AM (26 minutes)	WVU Site; <i>Session Chair:</i> Hota Gangarao	
5	C, D, E	Timber Pile Rehab with FRP Composite Wraps	Drew Damich and Hota
6	C, D	Development of Sheet Pile Wall Test Procedure	Josh Wilt and Hota GangaRao
7	A, B	Rheology of Polymer Melts with and without Chopped Carbon Fiber	Liang, Gupta and Hota
8	A, C	Thermomechanical Response of FRP Composite Jacketing for Tank Cars under Impact and Fire	Andrew Kenney and Hota
	12:04 (26 minutes)	University of Miami Site; <i>Session Chair:</i> Antonio Nanni	
9	A	Physio-mechanical characterization of composites for infrastructure applications	Nanni / F. De Caso
10	B	Determining the Durability of Composites for Infrastructure Applications	Nanni / F. De Caso
11	C, D, E	Implementation of Composites Solutions Through Experimental Testing and Design	Nanni / F. De Caso
12	C, D	Propelling the use of FRP Composites with Meaningful Codes and Guidelines	Nanni / F. De Caso
	12:30 PM (26 minutes)	NCSU Site; <i>Session Chair:</i> Rudi Seracino	
13	C & E	Repair and Strengthening of Timber Piles and Poles using the SCS System	G. Lucier / R. Seracino
14	C, D, & E	Prestressed MF-FRP Repair of Deteriorated Prestressed Concrete Bridge Beams	S-H Lin / R. Seracino
15	C & E	Repair of Precast Concrete Dapped End Beams	M. Qambar / G. Lucier
16	B & C	Creep of Precast Concrete Sandwich Panels with CFRP Wythe Connectors	G. Lucier

*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; E- Maintenance, Repair Methodologies/Damage Detection



Center for Integration of Composites into Infrastructure

May 28, 2021 (Friday)

11:00 AM – 1:00 PM CDT

<https://tamu.zoom.us/j/95757044355>

Agenda

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11:00 AM - Welcoming remarks and center status update, Dr. Puppala

- IAB Status Update

11:10 AM - LIFE Form based Question/Answers, Mr. Steve McGregor, Center Evaluator and Site Directors

12:00 PM – Virtual Breakout Session: IAB Close Door Workshop, Dr. VJ Gopu, IAB Chair and other participants enter separate breakout room in Zoom

- How IAB Member Industries Coping with COVID Crisis? Continuing Discussion....Dr. VJ Gopu, IAB Chair
- NSF Survey, Mr. Steve McGregor, Center Evaluator

12:45 PM – Transition to leadership rotation

Future conference

IAB Vice Chair

Closing remarks, Drs. Gopu, Puppala, and Gangarao

1:00 PM - Adjourn