

Industry Advisory Board (IAB) Meeting

Center Report

Anand J. Puppala, TAMU CICI Site Director

Dec 4, 2020

Organizational Overview

- National Science Foundation I/UCRC
 - Dr. Prakash G Balan, Program Director
- CICI Evaluator
 - Mr. Stephen McGregor
- CICI IAB Chair
 - Dr. Vijaya (VJ) Gopu, IAB Chair, LTRC
 - Mr. Dustin Troutman, IAB Past Chair, Creative Pultrusions

CICI Mission

- To accelerate the adoption of polymer composites and innovated construction materials into infrastructure applications through collaborative research
 - Highway, railway and waterway
 - Buildings and housing
 - Pipelines
 - Utilities and energy industries
- To develop a qualified workforce thru education and training
 - Growth of the composites industry requires skilled labor at all levels, including a generation of design engineers

Membership Fee Structure

CICI Phase 3: Starting Dec 15, 2019; Ending Nov 30, 2024

Comparison between new and old membership fee structure

	Phase 3
Associate Member	\$5,000
Full Member	\$15,000
Full and Enhanced Member	\$30,000 to 100,000

Membership Fee Structure

Benefits of new fee structure:

- Flexibility and potential to recruit many new industry members
- Flexibility to meet industry's needs at various levels
- Flexibility to meet NSF membership fee requirements

Voted at April 21 IAB meeting:

- 25 votes in "Pass" out of a total of 30 members
- More than two third of the total members

New membership agreement and bylaws reflecting new fee structure were approved by NSF in June, 2020

Due to COVID – NSF consider waiving membership requirements – Three sites are making those requests

News from NCSU

- Dr Brad McCoy: Asst Prof in Dept of Civil & Mechanical Engineering at USMA – West Point, and Deputy Director of Center for Innovation and Engineering.
- Installed developed MF-FRP system on a second in-service bridge in NC.
- Transitioning to new building on Centennial Campus, <u>Fitts-</u> <u>Woolard Hall</u> (\$154,000,000; 225,000 sq ft).



News from UM....Updates from Antonio Nanni

- Established partnerships with numerous organizations to disseminate FRPs in infrastructure to hundreds of professionals:
 - FICEM (The Inter-American Cement Federation), Colombia; ACI-NE Mexico Chapter, Mexico; SystecFRP, Panama; Centro de Estudios de Construcción y Arquitectura Tropical de la Universidad Tecnológica de La Habana, Cuba
- Successfully secured INTERN supplemental funding, further leveraging membership fees (Non-Academic Research Internships for Graduate Students).
- Successfully secured a REU funding, further leveraging membership fees (Research Experiences for Undergraduates).
- Dr. Nanni listed as 34th out of 42,054 authors world wide in Civil Engineering and 12th in the US.







News from TAMU

- TAMU CICI team have published 10 Journal papers in addition to 7 Geotechnical Special Publications over the last 2 years
- TAMU CICI Students and Postdocs made 9 Conference
 Presentations at TRB Annual Meeting, and GeoCongress events
- Anand J. Puppala, Aritra Banerjee and Surya S.C. Congress published a book chapter on 'Durability of Civil Engineering Systems: Chapter 7: <u>Geosynthetics in geo-infrastructure</u> <u>applications</u>
- Congratulations to Dr. Aritra Banerjee for starting faculty position as Assistant Professor in Civil and Environmental Engineering, University of Delaware



News from WVU

- Liang served in Organizing Committee of CAMX 2020.
- Rammed earth project is featured in US HUD Cityscape: A Journal of Policy Development and Research, 22 (3), 2020, p387-393.
- Liang and Hota conducted two National Webinars on Alaska Rammed Earth Construction, Nov 11 and 18, 2020.
- Hota plays a core role for Virgin Hyperloop Certification Center project in WV with lots of opportunities for Composites.
- Hota reeived \$1.9M funding from USDOT-PHMSA to develop composite jacketing for railroad tank cars for safer rail transportation of hazardous materials.
- Hota and Praveen received 3rd patent on FRP Wrap Kits , Patent No. 10,724,258, Issued 07/28/2020.
- In response to wildfires, EPRI contracted WVU to study the responses of FRP utility poles under wildfires. The report produced by WVU and edited by EPRI is currently under print.

Current Thrust Areas of Center

- Materials Development and Characterization, Manufacturing, Recycling
- Durability and Aging
- Design Implementation and Evaluation
- Codes, Specifications and Guides

CICI Sites - Expand thrust areas and scope as suggested by IAB

Suggestions or Questions?

Please email: <u>anandp@tamu.edu</u> and <u>congress@tamu.edu</u>

