



**5th Edition**



**2016  
NCRAC**

National Conference  
on Recent Advances  
in Composites

*COMPOSITES - Materials for Meeting the Challenges*

**12th and 13th February 2016**

**Hotel Taj Deccan, Hyderabad**

Jointly organised by:



TAACMA, Hyderabad  
formerly FIAAP

and



FRP Institute, Chennai



## ABOUT THE ORGANISERS

### TAACMA (FIAAP)

Due to the bifurcation of the Andhra Pradesh State, the former Fibreglass Industries Association of Andhra Pradesh is renamed as Telangana And Andhra Composites Manufacturers Association (TAACMA). TAACMA is a registered society constituted in 2004 with a membership of over 300 Composites Professionals and Industries and aims at working for the development of Composites Industry in India in general and in Telangana and Andhra Pradesh states in particular. TAACMA organises various technical Programmes, Seminars, Industrial visits, Expos / Exhibitions and leads delegations to International Expos and events in the interest of upgrading the Composites Technology and enhancing the growth of Composites Industry. Under its Government of India's sanctioned Composites Cluster, TAACMA has successfully completed the targetted soft interventions events and moving further to establish a world class Common Facility Centre for Composites Clusters in Hyderabad.

### FRP Institute

FRP Institute is a non profit professional society of the Indian Composites community founded in the year 1999. It has members from all over India and it works in close collaboration with the Industries and Institutions for upgrading the Composites technology and to promote the growth of the Indian Composites Industry. FRP Institute organises training programmes, workshops on Composites. FRP Institute has successfully organised seven International events - International Conference and Exhibition on Reinforced Plastics (ICERP) and has got the recognition of international composites fraternity. FRP Institute organises India Pavilion in leading composites shows like JEC Show, Paris, China Composites Expo to explore export opportunities for Indian Composites Companies.

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## CONFERENCE TOPICS

### OPPORTUNITIES FOR COMPOSITES

- ◆ AEROSPACE
- ◆ DEFENCE
- ◆ MASS TRANSPORTATION
- ◆ INFRASTRUCTURE
- ◆ AUTOMOTIVE

### MANUFACTURING TECHNOLOGIES

- ◆ High Pressure RTM Process
- ◆ High Gloss Finish and faster manufacturing process for composites: RIM process of Dicyclopentadiene
- ◆ Additive Manufacturing in Composite (3D printing process for composite product manufacturing)
- ◆ Glass Fibre Reinforced Cement Concrete for Architectural Applications.
- ◆ Wind Energy: Longer Blades design and manufacturing.
- ◆ Energy Saving and Waste Reduction practices in Composites manufacturing processes.

### DESIGN, APPLICATION AND NEW MATERIALS

- ◆ Process Modelling and Process Simulation Methodologies.
- ◆ Design and Analysis of Composite Products: Basic Guidelines.
- ◆ Composites: Adhesive Bonding Applications for Part Consolidation.
- ◆ Nano Composites
- ◆ Natural Fibre Composites
- ◆ Growing usage of Carbon Fibre Composites in Non-Aerospace sector.

### OTHERS

- ◆ Composites in Solar Power Generation.
- ◆ Composites in Electrical Sector
- ◆ Composites for Disaster Prevention Management Applications.
- ◆ Untapped Market potential in Marine Sector.
- ◆ Composites in Waste Water Treatment and Solid Waste Management.

### TESTING AND QUALITY MANAGEMENT TECHNOLOGIES

- ◆ Composites Testing and Product Development opportunities at ATIRA, Ahmedabad
- ◆ Analytical Techniques for Composite Materials Analysis: DSC, DMA, TMA, FT-IR
- ◆ Recent Advances in non destructive testing of Composites.
- ◆ Online quality monitoring systems in Composite Product Manufacturing.
- ◆ Health and safety aspects in Composites Manufacturing Environment.
- ◆ Recycling of Composites Waste.
- ◆ Need for specification for Toilets made using Composites.
- ◆ Structural durability of Composites and life prediction - Health monitoring sensors and methods.



## COMPOSITES IN TELANGANA

### NCRAC 2016

NCRAC is a biennial event conducted by the Telangana and Andhra Composite Manufacturers Association (TAACMA) and FRP Institute. With the emphasis on "Make in India" and the implementation of "Composite Cluster" in Hyderabad under the "Make in Telangana" program by the Government of Telangana, the next edition of NCRAC-16, 5th in series, will focus on manufacturing and testing technologies to encourage the development of an eco-system in Composite Manufacturing by bringing in world leading composite manufacturers, end-users, and entrepreneurs of Composite Cluster on the single platform. Fortune 500 companies such as Boeing, Airbus, Bombardier, Alstom, GE, Rolls Royce, and Honeywell and Indian giants such as CYIENT, Quest Engineering Services, Tata Advanced Systems are expected to participate in the two day event.

### Composite Cluster- First of its kind in the World

The Government of Telangana and TAACMA are developing an industry cluster focused solely on manufacturing of reinforced composites. The Government of Telangana has allocated land near the city of Hyderabad and will develop it into a full scale industrial park. The city of Hyderabad has all the infrastructure for creating a composite eco-system - Defense labs such as DRDO, higher education and R&D institutions such as IIT Hyderabad, and Engineering Services companies such as CYIENT and Tech Mahindra and world class manufacturing facilities such as Tata Advanced Systems. With Design, R&D, Testing, and Composite Cluster in one city, any composite product can be brought from 'Art to part.'

The composite cluster will have a world class "Common Facilities Center" to help the entrepreneurs of the Cluster design, build, and test prototypes according to international standards. TAACMA is also proposing to have a certification program for composite technicians similar to the one by American Composite Manufacturers Association (ACMA) to ensure skilled workforce are available to the cluster members.

### CONFERENCE

The conference will focus on the themes of manufacturing and testing of composites. The following are the goals of the conference:

- ◆ **For the Cluster Members:**  
To understand the market scope and technological/quality requirements of composite used by different industries such as defense, aerospace and mass transportation.
- ◆ **For End-users:**  
Providing an avenue to illustrate their composite manufacturing needs and identify potential vendors.
- ◆ **For Equipment Manufacturers / Raw Material Suppliers:**  
To display state of the art composite manufacturing and testing technologies and raw materials.
- ◆ **For R&D Institutes:**  
To connect with industry to conduct collaborative research to enable "Make in India" of composites.





## REGISTRATION AND SECRETARIAT

for registration and further details please contact:

B. S. Sambhi Reddy, Mobile: 09440067270, Chairman, NCRAC - 2016  
 O. Vasudeva Reddy, Mobile: 094904 12425, Secretary, NCRAC 2016  
 Dr. K. Narayana Reddy, Mobile: 09848033618, President, TAACMA  
 Dr. A. Selvam, Mobile: 098414 26644, Exec. Secretary, FRP Institute

### Conference Secretariat:

Telangana And Andhra Composites Manufacturers Association (formerly Fibreglass Industries Association of Andhra Pradesh)

# 304, Veena Apartments, 7-1-60, Dharam Karam Road, Ameerpet, Hyderabad - 500 016 Telangana, India.

Ph: 040-23732930; Email: info@fibreglass-ap.com, info@chemplasindia.com, info@fibreglassindustriesap.org; Visit: www.fibreglass-ap.com

### FRP Institute

NP 23/24, Developed Plot, Ekkattuthangal, Chennai - 600 032.

Ph: 044-42900325, 22251502; FAX: 044-22250349; Email: frp@frpinstitute.org, selvamfrp@gmail.com; Visit: www.frpinstitute.org; www.icerpshow.com

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