

# Workshop Summary Report

**Title: National level workshop on “ADVANCED COMPOSITE MATERIALS – A RESEARCH PRESPECTIVE**

**Date : 2<sup>nd</sup> and 3<sup>rd</sup> February 2018**

Two Days National level workshop on “ADVANCED COMPOSITE MATERIALS – A RESEARCH PRESPECTIVE” was organized by the Department of Mechanical Engineering on 2nd and 3<sup>rd</sup> February 2018. The Objectives of the workshop was to impart basic knowledge and skills about the various avenues for active research in composite materials and to establish platform for exchange of knowledge in advanced composite materials among industrial experts, academicians, researchers and end users.

The eminent professors and scientists from IIT, NIT, ANNA UNIVERSITY and National Aerospace Laboratory (NAL Bangalore) shared their vast experience in the field of polymer, metal and ceramics matrix composites. The Hands-on-training was also provided to enrich their skills in the field of composites. **Total number of 42 Academicians, Researchers and Scientists participated in the workshop and got benefitted.**

<p><b>ABOUT THE WORKSHOP</b></p> <p>Composite materials are light in weight and possess high strength compared to monolithic materials. Weight reduction is the important parameter for various industrial applications.</p> <p>The workshop aims at enlightening the latest advances in composite material. The events of workshop comprise of lectures and demonstrations on the state of art design and processing of composite materials including metal, ceramic and polymer matrix composites. The applications of composite materials pertaining to aircraft structures, automotive components, biomedical implants and infrastructure industry will be addressed. The workshop will include lectures of leading experts from IIT, NIT and Industries.</p> <p><b>AREAS COVERED</b></p> <ul style="list-style-type: none"> <li>Composites for Space Applications</li> <li>Composites for Bio-Medical Applications</li> <li>Composites for Defence Applications</li> <li>Processing of Polymer Matrix Composites</li> <li>Machining of Composites</li> </ul> <p><b>PARTICIPANTS</b></p> <ul style="list-style-type: none"> <li>Faculty members from various Institutions</li> <li>Researchers from University / Colleges / Research Institutions</li> <li>R &amp; D Personnel from Industries</li> </ul> <p><b>REGISTRATION</b></p> <p>The registration fee of Rs. 500 for the delegates from academic institutions and Rs. 1000 for the delegates from industries can be paid via online payment (NEFT Transfer). The bank details are:</p> <p>A/C No : 165701000019388 IFSC Code : I00800001657 Beneficiary Name : Dept. of Mechanical Engineering</p>	<p><b>PATRON</b></p> <p>Prof. Taro Sri Datta/ Sr. In. Dr. Sabir Hamid Iim Abu Bakar, Vice-Chancellor B.S. Abdur Rahman Crescent Institute of Science &amp; Technology</p> <p><b>CO-PATRON</b></p> <p>Dr. M.S. Hagi Saikr Muhammad, Registrar B.S. Abdur Rahman Crescent Institute of Science &amp; Technology</p> <p><b>CONVENER</b></p> <p>Dr. S. Rasool Mohideen, Head OSM B.S. Abdur Rahman Crescent Institute of Science &amp; Technology</p> <p><b>CO-ORDINATORS</b></p> <p>Dr. H. Siddha Jadhav, Asst. Professor Dr. M. Yamunammal, Asst. Professor B.S. Abdur Rahman Crescent Institute of Science &amp; Technology</p> <p><b>CONTACT DETAILS</b></p> <p>Dr. S. Rasool Mohideen, Dean OSM, Department of Mechanical Engineering, B.S. Abdur Rahman Crescent Institute of Science &amp; Technology, Vandalur, Chennai - 600 048. Phone: 044-4251-9290, Ex. 277 E-mail: workshop@cmec.ac.in</p>	<p><b>Two Days National Level Workshop on</b></p> <p><b>ADVANCED COMPOSITE MATERIALS - A RESEARCH PERSPECTIVE</b></p> <p>2<sup>nd</sup> &amp; 3<sup>rd</sup> February 2018</p> <p><b>Organized by</b></p> <p><b>Department of Mechanical Engineering</b> <b>B.S. Abdur Rahman Crescent Institute of Science &amp; Technology</b></p> <p><small>Institution of Science &amp; Technology Deemed to be University on 3 of the UGC Act, 1956 4007 Road, Vandalur, Chennai 600 048</small></p>
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<p><b>ABOUT THE INSTITUTION</b></p> <p>B.S. Abdur Rahman Crescent Institute of Science &amp; Technology (Est. in 1984 of the UGC Act, 1956, India), formerly Crescent Engineering College is acclaimed throughout India for its quality in teaching and research. The institution is committed to focus on three dimensions of higher education viz., quality teaching, innovative research and appropriate applications of knowledge through extension, outreach and consultancy activities. The institution is located on the Chennai - Tiruchirappalli National Highway, 7km from Tambaram and 28km from Vandalur Railway Station and 17km from the Chennai International Airport.</p>	<p><b>ABOUT THE DEPARTMENT</b></p> <p>The department of Mechanical Engineering started in 1984, is one of the oldest department of this Institution. A high degree of professionalism is inculcated to the students through student chapters of professional associations such as American Society of Mechanical Engineers (ASME), Society of Automotive Engineers (SAE), Indian Society for Heating Refrigeration and Air-conditioning (ISHRAE) and Society of Mechanical Engineers. The department organizes programmes to provide the students with industrial and practical experience through training and project work in industries to meet the industrial requirements and face real life situations. The Department of Mechanical Engineering offers the following programmes at undergraduate and postgraduate level:</p> <ul style="list-style-type: none"> <li>B.Tech. Mechanical Engineering</li> <li>M.Tech. CAD/CAM</li> <li>M.Tech. Manufacturing</li> <li>M.Tech. CAD/CAM (Part Time)</li> <li>M.Tech. Manufacturing (Part Time)</li> <li>Ph.D. - Full Time / Part Time</li> </ul>	<p>Department of Mechanical Engineering B.S. ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE &amp; TECHNOLOGY Vandalur, Chennai 600 048.</p> <p><b>REGISTRATION FORM</b></p> <p>Two Days National Level Workshop on <b>ADVANCED COMPOSITE MATERIALS - A RESEARCH PERSPECTIVE</b> 2<sup>nd</sup> &amp; 3<sup>rd</sup>, February 2018</p> <p>Full Name : .....</p> <p>Qualification : .....</p> <p>Designation : .....</p> <p>Organization : .....</p> <p>Address : .....</p> <p>Mobile : .....</p> <p>E-mail : .....</p> <p>Registration Category: Academic Institution <input type="checkbox"/> Industry <input type="checkbox"/></p> <p>Details of Registration Amount : .....</p> <p>Online Transfer Ref. No. : .....</p> <p>Date of Transfer : .....</p> <p><b>CERTIFICATE</b> Applicant's Signature Dr. / Mr. / Ms. .... is working in the Department of ..... Engineering in our organization / institution and is sponsored to attend the programme.</p> <p>Place: ..... Date: ..... Signature of the Sponsoring Authority (with seal)</p>
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## Brochure



**Workshop Inauguration**



Presentation by **Dr. M. Balasubramanian**, Professor, Dept. of Metallurgical & Materials Engg., IIT-Madras.



Presentation by **Dr. A. Udayakumar**, Principal Scientist, Materials Science Division, CSIR – National Aeronautical Laboratories, Bangalore



**Dr. S. Kumaran**, Professor, Dept. of Metallurgical & Materials Engg., NIT Trichy, honored by **Dean School of Mechanical Sciences, BSACIST**



Presentation by **Dr. B. Mohan**, Prof & Head, Department of Mechanical Engineering, Anna University, Chennai



Presentation by **Dr.S.S.M.Abdul Majeed**, Prof & Head, Department of Polymer Engg, B S Abdur Rahman Crescent Institute of Science & Technology



Presentation by **Dr. Bikash Chandra Chakraborty**, Director, Polymer Nano Technology Centre, B S Abdur Rahman Crescent Institute of Science & Technology



Hands-on-training for the preparation of composites



Hands-on-training for the preparation of composites

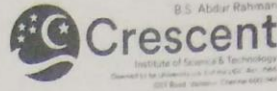


Hands-on-training for the Testing of composite materials



Feedback Session from the participants

# Sample feedback copy



## DEPARTMENT OF MECHANICAL ENGINEERING

Two Days National Level Workshop on  
"ADVANCED COMPOSITE MATERIALS – A RESEARCH PERSPECTIVE"  
February 2<sup>nd</sup> and 3<sup>rd</sup>, 2018

### FEEDBACK FORM

#### INSTRUCTIONS

Please circle your response to the items. Rate aspects of the workshop on a 1 to 5 scale:

- 1 = "Strongly disagree," or the lowest, most negative impression
  - 3 = "Neither agree nor disagree," or an adequate impression
  - 5 = "strongly agree," or the highest, most positive impression
- Choose N/A if the item is not appropriate or not applicable to this workshop. Your feedback is sincerely appreciated. Thank you.

#### WORKSHOP CONTENT (Circle your response to each item.)

1= Strongly disagree 2=Disagree 3=Neither agree nor disagree 4=Agree 5=Strongly agree N/A= Not applicable

1. I was well informed about the objectives of this workshop. 1 2 3 4  5 N/A
2. This workshop lived up to my expectations. 1 2 3 4  5 N/A
3. The content is relevant to my work. 1 2 3 4  5 N/A

#### WORKSHOP DESIGN (Circle your response to each item.)

4. The workshop activities stimulated my learning. 1 2 3 4  5 N/A
5. The demo sessions in this workshop made me to Understand the concepts better. 1 2 3 4  5 N/A
6. The pace of this workshop was appropriate. 1 2 3 4  5 N/A





B.S. Abdur Rahman

**Crescent**  
Institute of Science & Technology  
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GST Road, Vandalur, Chennai 600 042

**WORKSHOP FACILITATOR** (Circle your response to each item.)

7. The speakers were well prepared. 1 2 3 4 **5** N/A  
8. The speakers were helpful. 1 2 3 4 **5** N/A

**WORKSHOP RESULTS** (Circle your response to each item.)

11. I accomplished the objectives of this workshop. 1 2 3 4 **5** N/A  
12. I will be able to use what I learned in this Workshop. 1 2 3 4 **5** N/A  
13. I am very comfortable during my stay at Crescent 1 2 3 4 **5** N/A  
14. Specify what you like the most in this workshop.

- \* All sessions are more informative
  - \* Demonstration session is interesting
  - \* Hospitality is good
15. Specify your recommendations for the improvements of this workshop.

N/A

16. Any other information (please specify)

N/A

Name : S. Prathap Singh  
Organization : St. Joseph's Institute of Tech, Chennai.