

Announcement & Call for Papers

Second International Conference on Polymer Composites- 2018

December 15-16, 2018

DEPARTMENT OF MECHANICAL ENGINEERING

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

Mangalore DK-575025, Karnataka State, INDIA



Conference Outline

Welcome to the 2nd International Conference on Polymer Composites 2018 at Department of Mechanical Engineering at NITK Surathkal, India. The conference will be held in NITK Campus, Surathkal, India and the program will be covered by invited oral presentations. This conference brings academicians, industrial experts, researchers and scholars' together working in the area of Composites. The topics of interest includes **Mechanics, Processing and Characterization** of composites, Engineered Composites for high end applications, Green & Natural fiber reinforced composites, Vibration and Acoustics of Composites, Application-oriented hybrid & sandwich composites and Semiconductor materials. The conference series look forward in welcoming you to an inspiring research program at NITK Surathkal, India with the intent of emphasizing the development and applications of Composites in engineering research for the global growth. This conference will provide a platform for learning, exchange of ideas and networking with fellow colleagues and participants across the globe in the field of composites.

First **International Conference on Polymer Composites** (ICPC2014) was held on 19-20 December 2014 with the major focus to foster understanding, scientific and technical progress, and recent knowledge in the field of polymer composites. A good number of research papers were presented by academicians, researchers and industry professionals from India and abroad. The conference progressed with three parallel sessions for two days. The sessions were chaired by the eminent personalities in the field of polymer composites. The start of the sessions was inspired and motivated by keynote addresses by Prof. P. E. Seeram Ramakrishna, National University of Singapore and Prof. Nikhil Gupta, Tandon School of Engineering, New York University, USA.

National Institute of Technology Karnataka

National Institute of Technology Karnataka (NITK), Surathkal is one of the premier "Institutes of National Importance" in the country and is fully funded by the Ministry of Human Resource Development (MHRD), Govt. of India. The institute has an impressive infrastructure with state of art facilities in all the departments for teaching, research and consultancy. The institute is located 18 kilometers north of Mangalore city. NITK nestles between the verdant mountain ranges of Western Ghats on one side and vast tranquil blue water of the Arabian Sea on the other. Weather is pleasant in the month of December with temperatures ranging from 21° to 30°C. NITK is a focal point of visits to important nearby places of many pilgrimage like Udupi, Dharmastala, Kukke Subramanya and other Archeological sites. Goa and Calicut beaches are just five hours drive from the campus.

Department of Mechanical Engineering

Department of Mechanical Engineering is established in 1960 and is the oldest and largest department in the institute. The department has traversed the path of knowledge dissemination and generation as well as delivering over 4500 Mechanical Engineering graduates to the Nation. Over these 58 glorious years, it has carved a niche for itself in the key areas of teaching, research, consultancy, administration and community services. The Department of Mechanical Engineering prioritize the necessary revamping of Mechanical Engineering education which is driven primarily by dynamics of technological advances, sustainable development with active involvement of industry, alumni, research organizations and other stakeholders. Academic Programmes leading to B. Tech. degree in Mechanical Engineering, M. Tech. in Manufacturing, Design and Precision, Mechatronics and Thermal Engineering and full time Ph.D. degree are currently offered by the department.

Conference Scopes:

Mechanics and Numerical approaches for Composites
Processing Techniques for safe and hazard free environment
Engineered Composites for high end applications
Green & Natural fiber reinforced composites
Environmental issues of composite components disposal
Characterization of Composites
Vibration and Acoustics of Composites
Composites for substitute and alternate to wood
Application oriented hybrid & sandwich composites
Integrated Laboratory specimen to Engineering Product
Sustainable Composite Manufacturing and Practices
Composites Fatigue and Life cycle analysis
Semiconductor Materials and their characterization

Important dates:

Submission of full Papers: till 15th November 2018
Registration: 30th November 2018
Conference: 15-16 December 2018

Venue: NITK Surathkal, Mangalore, India

Publication: All presented papers will be published in **American Institute of Physics (AIP)** Conference Proceedings and is indexed in **Scopus (Elsevier)**, **The Conference Proceedings Citation Index (part of Web of Science)**, **Inspec** and **Chemical Abstracts Service (CAS)**

Registration fee:

Academicians/Students/Scholars from India: INR 6500

Participants from other countries: USD300

The registration details will be informed on acceptance of the paper. Registration fee may be paid through NEFT transfer to the bank account or DD in favor of Director, NITK payable at Surathkal, India.

Bank Account details:

Name: Director, NITK, Current Ac. No:37772503911, IFSC code: SBIN 0002273
State Bank of India, SBI Surathkal branch, Srinivasanagar, Mangalore, India

Instruction to Authors:

Research papers, review articles or case studies up to 10 pages can be submitted to the conference only through email: papers.icpc2018@gmail.com.

All papers be submitted with the guidelines of AIP, and the same can be downloaded from <https://aip.scitation.org/apc/authors/preppapers>

Organizing Committee:

Patrons:

Prof. K. Balaveera Reddy, Chairman, BOG, NITK

Prof. K. Umamaheshwar Rao, Director, NITK

Chairman: Prof. Narendranath S., Head of Mech. Engg. Department

Organizing Secretaries: Prof. G.C. Mohan Kumar and Dr. Mrityunjay Doddamani

Joint Secretaries: Dr. S.M. Murigendrappa and Dr. Subhashchandra Kattimani

Dr. P. Jeyaraj, Dr. M.R. Ramesh and Dr. Sharnappa Joladarashi

International Advisory Committee:

Dr. Pavana Prabhakar, University of Wisconsin - Madison, USA

Dr. Dirk Lehmkus, Fraunhofer IFAM, Germany

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Dr. Hariharan, IIT Madras, Chennai

Dr. Anandan Srinivasan, NITK Suratkal, India

Dr. Arun S. Isloor, NITK Suratkal, India

Travel

The institute is located 22 km north of Mangalore city along the Kanyakumari-Mumbai National Highway 66. It is well connected by road, rail and air to major cities in India and a few international destinations. Suratkal on the Konkan railway is the nearest railway station and is a stopover for most of the trains passing through Konkan railway. Mangalore Junction (Kankanady) and Mangalore Central railway stations are about 15 km away from campus and well connected by express bus services at every five minute frequency. The Mangalore (Bajpe) airport is just 18 km away from the campus.

Sponsorship

As the conference will be attended by Engineering Professionals, Scientists, Administrators, Executives, Manufacturers and Managers from various Institutions, Organizations and Agencies, sponsorship for some of the events in the conference would be sought. The sponsors will be provided with space to exhibit their products at the conference venue besides coverage in the conference Souvenir and Banners around the campus based on Platinum, Gold and Silver category. Interested parties may go through the conference website for further details and contact the conference secretariat.

Accommodation

Limited accommodation will be arranged for delegates in the Institute Guest house/hostels on specific request on a first come first serve basis for which participants have to pay the charges. Other delegates need to book the accommodation in the hotels near by Suratkal and Mangalore on their own.

Contact for Details

Prof. G. C. Mohan Kumar / Dr. Mrityunjay Doddamani

Organizing Secretary- ICPC 2018

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