ABOUT HYDERABAD

Hyderabad is the capital city of the Indian state of Telangana. It lies on the Deccan Plateau, at 574 meters (1,882 feet) above sea level, over an area of 625 km² (241 mi²).

The city has an estimated population of around 8 million, making it the third largest city in India. While the population of the metropolitan region is estimated to be around 5 million. Religiously and culturally, the city is divided into Hindus, Muslims, Christians, Jews, Sikhs, Buddhists, Zoroastrians, and Jains.

Hyderabad is known for its rich history, food, and its multi-culture, both geographically and culturally.

Founded in the year 1591 by the Qutb Shahi Sultan, Muhammad Quli Qutb Shah.

The original city of Hyderabad was founded on the banks of the Musi. Now known as the historic old city, home to the Charminar, Hyderabad Palace, Falaknuma Palace, and Mecca Masjid, it lies on the southern bank of the river.

Hyderabad and Secunderabad are two cities, separated by the Musi River, joined by the Mッドwah Bridge (known by the locals as ‘The Old Bridge’), a massive bridge connecting the two cities.

ACCOMMODATION

Hyderabad has a wide range of hotels and guesthouses. Some of the popular options include Taj Falaknuma, The Lalit, The Leela, and The Oberoi. These hotels are well connected with the city's main attractions.

TRAVEL

BY AIR: Hyderabad is connected to all major cities in India and international destinations.

BY BUS: Hyderabad has a well-developed bus network. Buses are available from all major cities in India.

ABOUT ORGANIZING INSTITUTE

Gallant Rangampeta Institute of Engineering and Technology (GRIET) is situated in 1027 by Dr. G. Gangadhar as a self-financed institute under the aegis of Gallant Rangampeta Educational Society. GRIET is approved by AICTE, New Delhi, and is affiliated to JNTUH, Hyderabad. GRIET is committed to quality education and is known for its innovative teaching philosophy.

Vision:

To be among the best in the country for engineers and technicians with attitudes, skills, and knowledge and to become a center of creative excellence.

Mission:

To achieve and impart quality education with an emphasis on practical skills and social relevance.

Quality Policy:

To provide an integrated learning environment to enable students to grow towards their full potential and meet the high expectations of the industry and the society.
ABOUT CONFERENCE

Functional materials, smart materials, intelligent materials – whatever you call them, they will be a key pillar of 21st century technology. Among the modern structural materials there has been a tremendous advancement in science and technology of materials. In recent years, nanomaterials and nano-composites have become increasingly important because of their remarkable properties and permanently growing areas for practical applications. Various aspects of mechanical properties of nano materials including analytical and computational modelling in combination with comprehensive experimental analysis of mechanical behaviour is yet to be investigated.

In spite of the rapid progress in this field, mechanical properties of nano materials and composites are still remaining terra incognita in materials science. In the field of massive and complex manufacturing we are now in need of materials, with properties, that can be manipulated according to our needs.

Large spaceplanes like the Space Shuttle would have proven extremely difficult, if not impossible, to build without heat-resistant ceramic tiles to protect them during re-entry. And high-speed forward-swept-wing airplanes like Grumman’s experimental X-29 or the Russian Sukhoi T-4/S-7 ‘Berkut’ would not have been possible without the development of composite materials to keep their wings from bending out of shape. Nature is full of magic materials, which are to be discovered in forms suitable to our needs. Such magical materials, also known as intelligent or smart materials, can sense, process, stimulate and actuate a response.

There is an increasing awareness of the benefits to be derived from the development and exploitation of advanced materials and structures in applications ranging from hydrospace to aerospace. With the ability to respond autonomously to changes in their environment, smart systems can offer a simplified approach to the control of various material and system characteristics. Mechanistic understanding from any discipline is the route to the development of materials with capabilities beyond those currently available.

SCOPE OF CONFERENCE

The role of manufacturing in the country’s economy and societal development has long been established through their wealth creation activities. To deepen and broaden our knowledge of materials and to increase innovation and responsiveness to ever-increasing international needs, more in-depth studies of functionally graded materials/tailor-made materials are needed at present. The objective of this conference is to bring together experts from academic institutions, industries and research organizations and professional engineers for sharing of knowledge, expertise and experience in the emerging trends related to advanced materials processing, and characterization.

The conference is structured as follows: plenary lectures followed by parallel sessions. The plenary lectures will be delivered by eminent personalities of international repute to introduce the theme of the conference. Each parallel session starts with an invited talk on specific topic followed by contributed papers. Papers are invited from the prospective authors from industries, academic institutions and R&D organizations and from professional engineers.

CONFERENCE TOPICS

Material Characterization (Room and at Elevated Temperatures)
High strain rate deformation of Materials
Bio-materials
Advanced machining processes
Advanced metal forming, bending, welding & casting techniques
Alternate materials /material substitution
Applications /FEA
Composite and Polymer Manufacturing
Composites, Intermetallics
Fabrication Process of Nano materials and Nano devices
Functionally Graded Materials
Future generation materials
Heat Treatment
High-Energy Beam Processing
High-speed and Hybrid Machining
Laser Based Manufacturing
Material Testing
ME/MSC Integration
Meta materials
Metallurgy
Multi-Physics Coupling Simulation and Optimization
Nano materials
Non-destructive Examination
Numerical Modelling and Simulation
Optimization Techniques
Powder Metallurgy and Ceramic Forming
Recycling and re-manufacturing of Materials and Components
SMART materials
Super Alloys
Thermally-Enhanced Processes and Materials

REGISTRATION

It is essential that at least one of the author of the accepted papers and register to participate in the conference, for including the papers in the special issue of the journal. Registration can be done by mailing the complete registration form along with the fee after receiving the acceptance of the paper.

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Your registration includes Concurrent/Sessions of technical program, Welcome Breakfast, Morning and Afternoon Refreshment Breaks, and Lunch at the conference venue, Paper Presentation, Attendance to all sessions, Conference bag, Certificate of Presentation, Complimentary city tour.

The registration fee shall be paid through crossed demand draft, drawn in favour of "Gokaraju Rangaraju Educational Society - ICMPCC" or by way of electronic money transfer to Sri Vikram Towers Balaji Nagar Colony Opp. BJP party office Kukatpally Hyderabad 500073.

Account No. 916001080365885
MICR Code: 50011060
IFSC Code: UTIB0003062

For any queries keep in touch with www.icmpcc.com

EXHIBITION CUM SPONSORSHIP

An exhibition will be organized concurrently with the conference. The industries who are interested in showcasing their products, equipment may contact the conference chairs. Two delegates sponsored by the exhibitors are allowed to participate in the conference without any extra fee.

Airlines are invited for being co-sponsors of the conference. Delegates will be allowed to attend the conference if any agency supports the conference financially. For future details visit our website.