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## About IIT Hyderabad



IIT Hyderabad is part of history in the making. We, the faculty, students and staff are creating an institute, which in due course of time will make an indelible mark in education and research. We have a great vision, agility, commitment and energy to create an innovative education and research environment that will be the envy of all. Through our deeds we shall be the catalysts for change in our local environs as well as the rest of India and the world. In a very short time, IIT Hyderabad has made significant strides. IIT Hyderabad admitted the first batch of 111 B.Tech. students, and started functioning on August 20, 2008. Three departments, CSE, EE & ME were initiated. The first year had its highs and lows but was an exciting period that will be etched in the minds of the pioneer batch. In January 2009, IIT Hyderabad admitted 11 PhD students. The ongoing strength of IIT Hyderabad is 868 B.Tech. students, 436 M.Tech. students, 32 M.Des students, 8 M.Phil students, 109 M.Sc students and 612 Ph.D. students. IITH celebrated all the student activities, and held a cultural program, ELAN. A few students received international scholarships and some are interning in Japan. We are aggressively recruiting faculty and building up a highly qualified manpower. IITH, through its Master Plan, has embarked on creating a signature campus which will provide the ambience for fostering inventions and innovations. A campus that will possess the scale beyond existing IITs. IIT Hyderabad will do its best to offer an innovative environment wherein your dreams will be realized: dreams for higher knowledge, dreams for scientific inquiry, dreams for technology creation, dreams for co-curricular activities, and dreams to change the world.

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# International Conference on Composite Materials and Structures

27-29 December 2017, Hyderabad

## FIRST ANNOUNCEMENT AND CALL FOR PAPERS



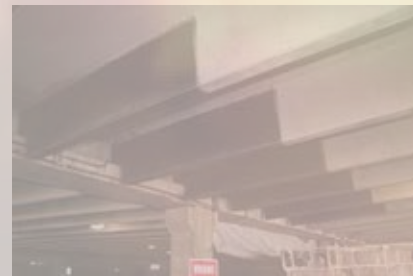
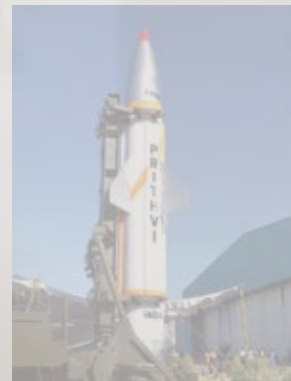
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# ICCMS 2017

## ABOUT ICCMS 2017

Composites have been used for millennia, starting with mud and straw bricks, and culminating in supersonic aircraft. Modern composites offer an impressive array of benefits. The past decade has seen remarkable advances in the use of composite materials in various applications. Within engineering domain, composites have revolutionised traditional design concepts and made possible an unparalleled range of new and exciting possibilities as viable materials.

The *International Conference on Composite Materials and Structures*, ICCMS 2017, will be a forum to bring together the users, manufacturers, designers and researchers involved in structures or structural components manufactured using composite materials. The forum would provide an opportunity for the exchange of the researches and insights from scientists and scholars, and promoting research, development and use of composite material and structures. The conference theme for the ICCMS2017 is "Composites: Recent Advances and Development", which tries to explore the very important role of innovation in the development of composite materials. Papers dealing with design, research and development studies, experimental investigations, theoretical analysis and fabrication techniques relevant to the application of composites in various assemblies, ranging from individual components to complete structure will be presented at the conference.

**ICCMS 2017 will be organized from 27-29<sup>th</sup> December 2017 at Hyderabad, INDIA.**

## CONFERENCE TOPICS

### I MATERIALS SCIENCE

- Polymer, Ceramic, Metal matrix composites
- Fiber reinforced composites
- Nano composites, Bio composites
- Textile Hybrid composites
- Auxetic materials
- Porous and cellular materials

### II STRUCTURAL ANALYSIS AND DESIGN

- Structural Analysis and optimization
- Multiscale modeling of composites
- Damage tolerance of composite structures
- Structural design criteria, safety and reliability
- Sandwich structures and materials
- Joints in composite structures
- Analysis of composite beams, plates and shells
- FRP and Historic Masonry Structures
- FRP reinforced concrete and steel structures
- Steel concrete composite structures

### III COMPUTATIONAL METHODS AND MECHANICS

- Nonlocal theories
- Damage mechanics, Delamination, Fracture
- Generalized continuum theories
- Multiscale Analysis of Natural Fiber Composites
- Advanced Numerical Techniques
- Micromechanics
- Modelling of CNT-Polymer Composites
- Optimization techniques and methods
- Plate and Shell finite elements
- Stability of Nano, Micro and Macro Composite Structures
- Thermal problems on Composite structures

### IV EXPERIMENTAL METHODS

- Ultrasound and acoustic emission
- X Ray computed tomography
- Thermography
- Micro and nano scale methods
- Experimental analysis of laminated plates and shells
- Health Monitoring Techniques in Composite
- Image correlation techniques

### V MECHANICAL PROPERTIES

- Constitutive models for composite materials
- Fatigue behavior of composites
- Dynamic, Impact behavior of composites
- Tribology and Wear of composites
- Interfaces and Interphases
- Durability creep and aggressive environment

### VI MULTIFUNCTIONAL AND SMART COMPOSITES

- Self-healing and Bio inspired designs
- Energy Harvesting and Storage
- Smart Structures
- Acoustic meta composite
- Electro-thermal properties of composite materials
- Functionally graded materials and structures

### VII APPLICATIONS OF COMPOSITES

- Aerospace, Automotive and Rail applications
- Bio and Medical applications
- Civil and Structural applications
- Composite Repair techniques, self-healing
- Composites in Innovative applications
- Offshore structures and Marine Applications

### CALL FOR ABSTRACTS

The ICCMS 2017 welcomes everyone in the field of composite materials and structures to submit abstracts for oral presentation. ICCMS 2017 conference will be organized as a series of parallel thematic sessions, with a list of tentative topics given in the conference topics page. All the abstracts submitted to the conference will go through a peer review process and once accepted will be assigned to the appropriate tracks/sessions. The submission has to be made online at [www.iccms2017hyd.com](http://www.iccms2017hyd.com).

The template for the abstracts is given at conference website [www.iccms2017hyd.com](http://www.iccms2017hyd.com)

### REGISTRATION FEES

Registration Type	Upto August 31, 2017	From September 1, 2017
Delegates from Abroad	600USD	650USD
Delegates from academic institutes	₹ 12,000/-	₹ 15,000/-
Delegates from Industry	₹ 15,000/-	₹ 20,000/-
Student delegates	₹ 6,000/-	₹ 10,000/-
Accompanying persons	₹ 6,000/-	₹ 8,000/-

- The registration fees includes: Conference Kit (Includes Proceedings, Book of Abstracts, Information booklet, pen and a notebook), accesses to all sessions, Poster sessions, Lunches, coffee and snacks. The registration fees shall be paid in the form of a Demand Draft (DD) in favour of ICCMS 2017, payable at Hyderabad and sent by post to the organizing secretary.
- The registration fees can be paid **ONLINE via SBI collect**. The details of Bank account are available at conference website.

### IMPORTANT DATES

- Abstract Submission Deadline: **June 30, 2017**
- Notification of Acceptance: **July 31, 2017**
- Full Paper Submission Deadline: **August 31, 2017**
- Pre-Registration Deadline: **August 31, 2017**
- Dates of Conference: **December 27-29, 2017**

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