

INTERNATIONAL CONFERENCE ON CONDITION MONITORING

24 & 25 February 2011



Jointly Organised by:



**DEPARTMENT OF MECHANICAL ENGINEERING
GITAM INSTITUTE OF TECHNOLOGY
GITAM UNIVERSITY**

(Estd. u/s 3 of UGC Act, 1956)



CONDITION MONITORING SOCIETY OF INDIA
(Regd No. 45061/2003)
VISAKHAPATNAM



(COMADEM INTERNATIONAL)
**CONDITION MONITORING AND DIAGNOSTIC
ENGINEERING MANAGEMENT
BIRMINGHAM, UK**

About GITAM University

GITAM University is a premier educational institution in Andhra Pradesh dedicated to the cause of teaching and research of global standards and offering a wide range of undergraduate, postgraduate and research programmes in diverse disciplines such as engineering, science, management, international business and pharmacy. The University is located on the sea-shore of Bay of Bengal providing a pristine, calm and serene atmosphere with excellent infrastructural facilities most ideal for academic and research pursuits. The University also has a proud campus at Hyderabad amidst a commercially vibrant industrial hub. The Ministry of Human Resources Development, Govt. of India has rated GITAM University very high and included it in "A category" among the Deemed Universities in the country.

The **Department of Mechanical Engineering** offers Under graduate course in B.Tech (Mechanical Engineering), Post graduate courses in M.Tech (CAD/CAM), M.Tech (Machine Design) & Ph.D. (Full/ Part time) programmes. The Department maintains a close liaison with industries and ensures that students are trained as per industry requirements. The quality of education imparted and the resulting professional competence of the graduates enabled the department to achieve a high record of placement of its graduates in India and abroad.

About Condition Monitoring Society of India (CMSI)

Condition Monitoring Society of India (CMSI) was established in the year 2003 with an intention to promote and emphasize the importance of condition monitoring in industrial maintenance. The Society intends to disseminate the latest trends in Condition Monitoring to the professionals/practicing engineers/plant engineers by way of conducting conferences and workshops from time to time. The society also intends to be the common platform for condition monitoring professionals to share their experiences and case studies. The society publishes a news letter 'MONITOR' to keep the members abreast of developments in the field. The society has grown rapidly with setting up of various chapters of the society at different places all over India. In its effort to fulfill the objectives of the society, CMSI conducted various conferences and courses during the past few years such as a 2- day National Conference on Condition Monitoring (NCCM-2006) during December 15-16, 2006 and a 4-day short term course on Condition Based Maintenance (CBM-07) during November 19-22, 2007. Both the programs were very well attended and highly appreciated for the professional conduct of the events. GITAM University and CMSI jointly organised a 5-day course sponsored by AICTE-ISTE during March 16-20, 2009.

Recently CMSI & Naval Science & Technological Laboratory (NSTL), Visakhapatnam jointly conducted a 2-day National Conference on Condition Monitoring (NCCM – 2009) to highlight growing importance of condition monitoring. A number of Condition monitoring experts/practicing specialists from various organizations, institutes and industries have participated in this conference. Apart from this, a number of workshops and annual meets were organized by the society and its local chapters.

About COMADEM

Condition Monitoring and Diagnostic Engineering Management (COMADEM) International Congress has become probably the largest premier event of its kind in Europe, gaining momentum year by year. The aim of the congress is to promote awareness of the fast emerging interdisciplinary areas of Condition Monitoring and Diagnostic Engineering Management.

COMADEM Congresses and Exhibitions are the ideal place to find out how to implement the latest tools and techniques in the multidisciplinary field of performance monitoring, root cause failure modes analysis, failure diagnosis, prognosis, and proactive management of industrial systems. Participants will have ample opportunities to raise a number of current issues with many learned and experienced speakers representing both the industrial and university sectors.

Scope of the Conference

As a part of CMSI's endeavor to spread importance of condition monitoring, a two day International Conference on Condition Monitoring (ICCM-2011) is being jointly organized by CMSI, COMADEM and GITAM University during February 24 - 25 , 2011. A number of Condition monitoring experts/practicing specialists from various International organizations, institutes and industries are expected to participate in the conference. The conference provides a platform for interaction on state of art Condition Monitoring strategies being followed worldwide. It also provides an opportunity to deliberate on latest trends in the field of Condition Monitoring. The conference aims to discuss techniques and practices such as vibration monitoring, Thermography, Wear debris analysis etc., being employed in the industry for predictive maintenance. It would be highly beneficial for maintenance engineers of industries, R&D professionals and academicians working in this field of work.

Call for papers:

ICCM-2011 invites papers related to various disciplines on Condition Monitoring for presentation at the conference and publication in the proceedings of the conference. The papers relevant to diagnosis and rectification of machinery faults with case studies are expected to benefit the participants most. Papers will be peer reviewed before accepting. A few of the peer reviewed papers will be considered for publication in the Journal of COMADEM.

The items include the following:

- * *Maintenance Management*
- * *Materials and Structural Health Monitoring*
- * *Condition Monitoring and Diagnosis Methods & Technologies*
- * *Oil/Wear Debris Analysis / Ferrography*
- * *Online/Real time Condition Monitoring Systems*
- * *Expert Systems/ Neural Networks in Condition Monitoring*
- * *Vibration Monitoring*
- * *Infra Red Thermography*
- * *Motor Current Signature Analysis*
- * *Ultrasonics for Condition Monitoring*
- * *Tool Wear Monitoring*
- * *Case Studies*

Important dates:

Submission of Abstract (150 to 200 words)	22-10-2010
Acceptance of Abstract	18-11-2010
Submission of full papers	18-12-2010
Peer review intimation to authors	18-01-2011
Submission of camera ready manuscripts	28-01-2011

Guidelines for submission of papers:

- ☞ Any original contribution/constructive review not published elsewhere.
- ☞ Experimental investigation with definite conclusions.
- ☞ Case studies of industrial importance.
- ☞ Simulation studies with practical demonstration/results.
- ☞ Design of instruments /system/software
- ☞ Abstracts and Camera ready manuscripts to be sent in the soft copy to convener along with a hard copy.
- ☞ At least one of the authors is required to register and attend the conference for presenting the paper.
- ☞ The format for the paper is specified below :
 - ❖ Paper : Should not exceed 8 pages (A4 Size)
 - ❖ Margins : Left (1.5 inch) and Top, Bottom and Right (1 inch)
 - ❖ Font : Times New Roman
 - ❖ Title : All caps with 14 point bold;
 - ❖ Author details : 12 point italics, Sentence case
 - ❖ Abstract : 11 point Italic with single line spacing to be placed after title and author details
 - ❖ Text : 12 point normal justified with single line spacing
 - ❖ Para headings : 12 point bold, sentence case; Line spacing 1.5 lines
 - ❖ Figures : To be inserted in jpeg / bmp / png format

Note: i) *Commercialism / promotion of products should be avoided.*

ii) *Papers submitted without registering for conference by at least one of the Authors will not be published in proceedings.*

- CHIEF PATRON** : **Dr. M.V.V.S. Murthi**, President, GITAM University
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Registration fee:

	Indian (INR)	Overseas (USD)
Members of CMSI from Industry	6000/-	120
Non-members from Industry	7500/-	150
Non members from Academia	3750/-	75
Members of CMSI from Academia & Students/Research Scholars	2250/-	45

Note: Institutional Members of CMSI can avail 50% discount on registraion fee for a maximum of 3 delegates.

Souvenir

A special souvenir will be published to commemorate the event. This will include technical articles by eminent experts on contemporary topics of research and manufacturing related to industry, information related to the conference, the details of sponsors and the exhibitors. This will be widely circulated among the professionals and the industries in India and abroad. Advertisements are solicited for insertions in the souvenir. The detailed information regarding the Exhibition, sponsorship and the advertisement in the Souvenir can be obtained from the conference Organising Secretary/Treasurer. The D.D/Cheque shall be drawn in favour of ICCM-2011, payable at Visakhapatnam.

Advertisement rates for souvenir

Page	Indian (INR)	Overseas (USD)
Outside Back Cover	35000/-	1000
Inside Cover Pages	30000/-	900
Special Color Pages	25000/-	750
Full Page (B & W)	20000/-	600
Half Page (B & W)	10000/-	300

Exhibition

To promote a fruitful industry-research-academic interaction, a technical exhibition focusing the theme **“GLOBAL SOLUTIONS FOR CONDITION MONITORING”** is planned at the conference venue. This exhibition will be open to the galaxy of international and national delegates drawn from industry, research and academic institutions, during the entire duration of the conference. For exhibition, the organizing committee will provide stalls of size 8' x 8' with necessary facilities for display/demonstration of the commercial products/services. **Exhibition Fee for Overseas organization is USD 1500 and for Indian organization is INR 50000/- per stall.** The exhibitor of the stall is entitled for waiver of registration fee for one delegate and for one page B&W advertisement in the Souvenir. Interested organizations/industries are requested to contact the Organising Secretary/Treasurer of the conference for obtaining further details regarding the participation in the Exhibition. The participants for the exhibition are requested to register on or before December 31, 2010.

Accommodation

A number of decent hotels are located in the city of visakhapatnam. A detailed list of hotels will be made available on the conference website. Accommodation in these hotels can be booked online or through travel agents. Contact organising secretaries for further details.



Aerial view of GITAM University

About Visakhapatnam City

Visakhapatnam with its long sea coast is built along the Bay of Bengal. It was once a small fishing village named after the God Valour, Visakha. It was once a part of Kalinga empire under Ashoka, passed over to Andhra kings to Pallavas, Cholas and Gangas and finally became a part of Vijayanagar empire. Visakhapatnam is famous for its natural harbour in the world with a temple, mosque and a church located on the same hills overlooking the harbour to symbolize secularism. Light house for navigational purpose situated on a huge rock of 357 meters high which resembles the Dolphin nose is an attraction to the tourists. The largest ship building yard first of its kind in India is also situated at Visakhapatnam undertaking indigenous building of ships. Towards north of Visakhapatnam there lies an ancient Temple of 11th century, dedicated to Lord Varahanarasimha, one of the Dasavatarams of lord Vishnu. Visakhapatnam is on the threshold of becoming one of the major industrial centres of India. Visakhapatnam Steel Plant, Bharat Heavy Plates & Vessels, Hindustan Zinc, Hindustan Petroleum Corporation Limited, Visakhapatnam Port Trust and National Thermal Power Corporation are some of the public sector enterprises situated at Visakhapatnam serving the Nation. Visakhapatnam also houses Eastern Naval Command of the Indian Navy. Famous seat of learning Andhra University is also located at Visakhapatnam. There are numerous places of visit in and around Visakhapatnam which are unique in nature. Borra caves (Natural), Araku valley, Rishikonda beach and Kailasagiri are some of the tourist attractions.

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