

A Two Day National Conference on **CONDITION MONITORING**

(Theme: Condition Monitoring & Industry 4.0)

NCCM - 2023

**27 - 28
April
2023**



Jointly Organised by



Naval Science and Technological Laboratory
DRDO, Ministry of Defence
Visakhapatnam-530027



Condition Monitoring Society of India (CMSI)
(Regd. No: 45061/ 2003)

Convener:

Dr. T. VENKATA RATNAM

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About the Conference

As a part of CMSI's endeavour to highlight growing importance of condition monitoring, a two day National Conference on Condition Monitoring (NCCM-2023) is being organized during April 27-28, 2023. A number of Condition monitoring experts / practicing specialists from various 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 is also intended to generate awareness and interest among students of engineering the future torch bearers of the society. 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:

NCCM-2023 invites papers related to various disciplines on Condition Monitoring systems for presentation and publication in the proceedings of the conference, and a souvenir to be brought out during the conference. The papers relevant to diagnosis and rectification of machinery faults with case studies are expected to benefit the participants most.

The Conference Themes

- Vibration measurements and analysis
- Thermography & Motor current analysis
- Data acquisition and instrumentation
- Integrated condition monitoring
- Intelligent / Smart monitoring
- AI & ML for defect analysis
- Prognosis & RCM / Proactive maintenance
- Condition monitoring & Machinery Diagnostics
- Cloud computing & wireless networks in plant maintenance
- Machinery noise analysis
- Oil /Wear debris analysis / Tribology
- Sensors (including MEMS)
- Remote monitoring of assets
- Statistical model / methods
- ANN / SVM methods
- Maintenance philosophies
- Case studies

Souvenir

A Souvenir will be brought out during NCCM 2023 giving abstracts of papers and expert talks by invited speakers.

Guidelines & Format for paper submission

Guidelines for paper submission

- The Technical paper should be original Contribution and not published earlier. It should contain experimental investigation with specific conclusions/ Case studies of industrial importance/ Simulation studies with practical demonstration/result or Design of instruments / Systems / Software.

Format for submission of paper

- Paper should not exceed 8 (eight) A4 Size sheets with Times New Roman Font
- Margins : Left = 1.5 Inch; Right, Top & Bottom = 1.0 Inch
- Abstract: 11 Point Italic with single line spacing to be placed after title and other details with Four Key words.
- Text: 12 Point normal justified, Para heading: 12 Point Bold Sentence case and Spacing = 1.5 lines. Figures to be inserted in jpg Format.
- At least one of the authors is required to register and attend the conference for presenting the paper. Maximum number of authors is 3 (Three)
- E-mail of the corresponding author should be given.

Important Dates

Abstract submission (Max 250 Words):	20 th Feb, 2023
Acceptance of abstract :	01 st Mar, 2023
Submission of full paper:	15 th Mar, 2023
Intimation of Acceptance:	30 th Mar, 2023
Camera-ready paper along with Reg. form:	15 th Apr, 2023

Registration Fee

Member of CMSI (Industry):	Rs. 3,000/-
Non Member of CMSI (Industry) :	Rs. 4,000/-
Member of CMSI (Academic):	Rs. 2,000/-
Non Members of CMSI (Academic):	Rs. 2,500/-
Research Scholar/ Engg. Student:	Rs. 1,500/-
Institutional Member (Up to max 3):	Rs. 2,000/- each

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Souvenir Advertisement Tariff

Wide publicity of Products/ Company can be given in the form of an advertisement in our Souvenir released during the Conference. Following are the advertisement tariff:

- Outside Back Cover Page : Rs.50,000/-**
(Multi colour)
- Inside Front & Back Cover: Rs.35,000/- each**
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Naval Science & Technological Laboratory

NSTL is a premier R&D laboratory of DRDO for

- Design and development of underwater weapons and associated systems
- Hydrodynamic studies of surface and sub-surface platforms and bodies
- Warship technologies

The Laboratory carries out design, development and evaluation of light weight/heavy weight torpedoes, sea mines and decoys. The Laboratory has established world class Hydrodynamic Test Facilities for evolving designs through model studies for surface and sub-surface Vehicles and Torpedoes. NSTL also established expertise in technologies such as Underwater Shock, Vibration & Noise; Signature management of warships; and Environmental testing. The laboratory is striving towards self reliance in Naval Science and Technology domains. The laboratory is working closely with industry and academia to ensure realisation of R&D goals effectively.

Condition Monitoring Society of India

Condition Monitoring Society of India (CMSI) was established in 2003 with an intention to promote and emphasize the importance of condition monitoring among professionals/ practicing engineers / plant engineers by way of conducting conferences and workshops from time to time. The society also intends to be a common platform for condition monitoring professionals to share their experience and expertise. The society publishes a newsletter 'MONITOR' to keep members abreast of the developments in the field. The society has grown rapidly by setting up local chapters at different locations all over India.

About the Visakhapatnam City

Visakhapatnam (Vizag) is the largest city in the Indian state of Andhra Pradesh.. It is the administrative headquarters of Visakhapatnam district. Nestled between the Eastern Ghats mountain range and the Bay of Bengal, the city is one of the fastest growing cities in the country. Visakhapatnam's history stretches back to the 6th century BC. Historically, it was considered part of the Kalinga region, and later ruled by the Vengi kingdom, the Pallava and Eastern Ganga dynasties. After independence, Visakhapatnam developed into one of the country's chief ports and became the headquarters of the Eastern Naval Command of the Indian Navy. The city houses Andhra University, one of the famous educational establishments. The city is often known as The Jewel of the East Coast, and The City of Destiny. Visakhapatnam's beaches (such as Ramakrishna Beach and Rushikonda), parks (such as Kailasagiri and VUDA Park), museums (such as the Kursura Submarine Museum and Visakha Museum), and proximity to areas of natural beauty (such as the Kambalakonda Wildlife Sanctuary, Araku Valley, and Borra Caves) have helped the city become one of the most attractive tourist destinations. People of the city are very cordial and friendly in nature. The city is connected by all three chief modes of transport (Air, Rail and Road).

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Signature of Participant

For Further Correspondence

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