

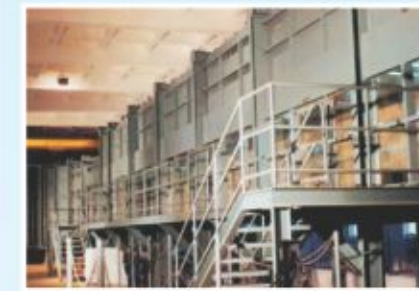


National Conference on Wind Tunnel Testing (NCWT-05)

Organized by
Department of Aerospace Engineering MIT Campus, Anna University
&
CSIR - SERC, Chennai



Venue : Rajam Hall,
MIT Campus, Chromepet, Chennai - 44.
16-17 March 2017



About the Conference

Madras Institute of Technology (MIT), Anna University and Council of Scientific and Industrial Research (CSIR) – Structural Engineering Research Centre (SERC), Chennai are jointly organizing the 5th National Conference on Wind Tunnel Testing (NCWT-05) during **16-17 March 2017**. First National Conference on Wind Tunnel Testing was held at IIT Kanpur in July 2007, the 2nd was held at NAL, Bangalore in 2009 and the 3rd was held at VSSC, Trivandrum in 2013. The 4th National Conference was held at DRDL, Hyderabad during 19-20, March 2015. The objective of this Conference is to bring professionals in the area of Wind Tunnel Testing in the country together from the Aerospace Industries, R&D organizations and Academic institutions to share the advances in Experimental Aerodynamics. NCWT-05, which is the fifth in series will be jointly organized by Madras Institute of Technology, Anna University, Chennai and CSIR-SERC, Chennai. The Conference will provide a National Forum to discuss current status and future challenges of wind tunnel testing in India and debate strategies towards sustained developmental activities in the area of Wind Tunnel Test Techniques and Experimental Research pertaining to various strategic, industrial and academic domains. The Conference will consist of invited talks, contributed papers and panel discussions.

The Organizers : MIT, Chennai & CSIR-SERC, Chennai

In 1949, Shri. C.Rajam, the founder, gave the newly independent India-Madras Institute of Technology(MIT), so that MIT could establish a strong technical base that was very much needed in the country. It was the rare genius and vision of its founder that made MIT to offer courses in Aeronautical Engineering, Automobile Engineering, Electronics Engineering and Instrumentation Technology for the first time in our country. It was merged with Anna University in the year 1978. Now it also provides technical education in other engineering fields such as Rubber and Plastic Technology, Production Technology, Information Technology and Computer Science and Engineering. The Department of Aerospace Engineering was established in 1949 as Faculty of Aeronautics in the Madras Institute of Technology Campus, for furthering the cause of Aerospace Research in the new born nation. It is the first department that offered undergraduate (UG) programme in Aeronautical Engineering in India. Till date, the Department has been leading the way in propelling indigenous research in Aerospace field. This was made a reality through the competent, devoted and efficient faculty and highly sophisticated state-of-art laboratory facilities. The department runs one full time undergraduate (UG), and three full time post graduate (PG) programmes. The department also offers MS (By research) and Ph.D programmes in various research areas related to Aerospace Engineering.

Council of Scientific and Industrial Research (CSIR)-Structural Engineering Research Centre (SERC), Chennai, is one of the national laboratories under the Council of Scientific & Industrial Research (CSIR), New Delhi. CSIR-SERC has built-up excellent facilities and expertise for the analysis, design and testing of structures and structural components. Services of CSIR-SERC are being extensively used by the Central and State Governments and public and private sector undertakings. CSIR-SERC has well established the state-of-the-art Boundary Layer Wind Tunnel (BLWT) facility catering to the industrial, academic and research needs of the country. CSIR-SERC has been carrying out various wind tunnel investigations for both R&D and industrial applications, viz. building aerodynamics, power plant structures, vehicle aerodynamics, etc.

The Venue

The venue of the Conference will be Madras Institute of Technology (MIT) Campus, Chromepet, Chennai – 600044. The inaugural function, the valedictory function and one of the parallel technical sessions will be held at Rajam Hall in MIT Campus.

Theme of the Conference: “Current Status and Future Challenges of Wind Tunnel Testing in India”

Conference Topics

- ▶ New techniques and methods for improvements in wind tunnel testing.
- ▶ Design, development, performance, operation, maintenance, life extension and economics of wind tunnel test facilities.
- ▶ Flow diagnostics and experimental techniques.
- ▶ Design and development of strain gauge balances and sensors.
- ▶ Control system development for Wind tunnel & their applications.
- ▶ Wind tunnel testing and data analysis.
- ▶ Wind tunnel testing for industrial applications namely wind turbines, automotive vehicles, building aerodynamics and power plant structures.
- ▶ Concept for national aerodynamic database, management and operation.
- ▶ Future needs in wind tunnel testing in India.
- ▶ Current limitations in wind tunnel testing in India.
- ▶ CFD simulation and analysis of flow path in wind tunnels.

Participation by students and research scholars is encouraged Scientists / Engineers from various R&D establishments from space and defence organisations, CSIR laboratories and professors from reputed academic institutions will be participating in the conference and presenting papers. The conference will be an useful opportunity to students and research scholars to interact with experts in Experimental Aerodynamics.

Souvenir

A Souvenir containing the abstracts of accepted papers will be released during the inaugural day of the conference. A directory of wind tunnel facilities in the country is also planned to be released. Advertisement from aerospace industries and private enterprises relevant to wind tunnel application and academic institutions are solicited. Tariff details for the advertisement in the souvenir are as follows

Back cover page	₹. 50,000 (Outside, Color) ₹. 40,000 (Inside, Color)
Full page	₹. 25,000 (Color) ₹. 20,000 (B&W)
Half page	₹. 15,000 (Color)

Advertisement space in the Souvenir may be booked. The advertisement material in softcopy, along with payment should reach the organisers on or before 15th February 2017. All photographs and images should be in tiff/ jpeg format, with minimum of 300 dpi resolution. A hardcopy in original color should also accompany the softcopy.

National Advisory Committee			
Patrons		Chairman	Co-Chairman
Prof. S. Ganesan Registrar, Anna University	Prof. P. Narayanasamy Dean, CEG Campus,	Prof. A. Rajadurai Dean, MIT Campus	Prof. Santosh Kapuria Director, CSIR-SERC
Technical Committee			
Chairman	Co-Chairman	Convener	Co-Convener
Dr. P. Theerthamalai DRDL, Hyderabad	Dr. P. Harikrishna CSIR-SERC, Chennai	Prof. K.M. Parammasivam MIT Campus, Anna University	Dr. C. Senthil Kumar MIT Campus, Anna University
Organizing Committee		Conference Chairman	Conference Vice Chairman
Chairman	Convener	Dr. B.T.N. Sridhar Professor and Head Dept. of Aerospace Engg. M.I.T Campus, Anna University	Dr. S. Selvi Rajan Chief Scientist & Head Wind Engineering Laboratory CSIR-SERC
Prof. K.M. Parammasivam MIT Campus, Anna University	Dr. C. Senthilkumar MIT Campus, Anna University		

Exhibition

Space for exhibition stalls (3m x 3m enclosures each) for aerospace related industries will be provided near the conference venue, Rajam Hall, MIT Campus for two days (16-17 March 2017). Those interested in product display/ demonstrations are requested to contact the convener. The tariff per stall is Rs.35,000/-.

Registration

Participation is by registration. Registration fee for individual delegates is as follows:

Registration fee	Amount in ₹.
Industries	7000
R&D Establishment / Academic Institutions	5000
Students / Research scholars	1000

The registration fee includes the souvenir, CD of conference proceedings, and refreshments during conference. The contributing authors are expected to register. At least one of the contributing authors should register to present the paper. **Those interested in participation are requested to send email to ncwt05@mitindia.edu along with their registration forms in the specified format, before 20th February 2017.**

Mode of Payment

All the payments should be made through crossed demand draft/ account transfer drawn on any Nationalized / Scheduled bank in favor of NCWT-05, MIT,Chennai . NEFT transfers can also be done to the Account No.6470419114 Indian Bank, MIT Extension Counter, Chromepet, Chennai-600044. IFSC code :IDIB000C028.

Please refer to Conference website for details : <http://www.ncwt05.mitindia.edu>

Register for NCWT-05 Early.
For further details visit
<http://www.ncwt05.mitindia.edu>

Contact Details

CHAIRMAN / CONVENER
NCWT-05

Department of Aerospace Engineering,
M.I.T Campus, Anna University, Chromepet, Chennai-600 044.

Email: ncwt05@mitindia.edu

Website: <http://www.ncwt05.mitindia.edu>

Fax: 044-2223 7038 / 2223 1165 / 2223 6654