

**International Conference & Exhibition on
Total Engineering, Analysis, & Manufacturing Technologies
TEAM TECH 2009
19 – 21 November 2009**

1. CONCEPT OF EVENT:

Technologies like CAD, CAE, RP, CIM, PLM, etc have been the driving factors for evolution of product life cycle by revolutionising conceptualisation, design, detailing, analysis and manufacturing procedures. A synergic integration of these technologies is essential for faster and profitable product development. Several organizations in India conduct seminars, workshops, conferences and exhibitions with focus on a few specific segments of product development. However, an acute need has always been felt for a common platform that could bring together scientists, engineers, designers, entrepreneurs, etc involved in different domains ranging from design to manufacture. In 2003, a group of Scientists, Industrialist, Academicians and Professionals organized themselves to formulate a consortium of professional bodies to organize the event 'TEAM TECH 2004' which successfully fulfilled the need of providing a common platform for interaction among interrelated product development groups.

The TEAM TECH 2004 International Conference provided the platform for the latest technologies and solutions for the industries in Rapid Prototyping, Micro & Nano Technologies, Industrial Design, Product Engineering, Advanced Manufacturing & Tooling Technologies, Automation for Automotive Industries, Advanced Finite Element Techniques, Design of Materials, etc. Around thousand delegates from Automotive, Aeronautical, Defence, Space Research and Engineering enterprises of Germany, Malaysia, Singapore, Belgium, Finland, UK, USA, China, Japan, Israel, Thailand and India participated in the event. There was a good feedback and support from the Industries, R&D establishments and academic organisations for conducting a similar type of conference annually with new updates and Sponsors/ Exhibitors giving encouragement to continue the TEAM TECH event. Thus TEAM TECH 2004 was followed by TEAM TECH 2006, TEAM TECH 2007 and TEAM TECH 2008. And now TEAM TECH 2009 is scheduled during 19 -21 November 2009 at Bangalore.

Broad outline of the topics in TEAM TECH 2009 are categorised into the following streams:

Design and Analysis Stream

- CAE/ FEM techniques for Structural / Heat Transfer / Vibration / Kinematics Analysis and Optimisation – Parametric Technology – Design Automation – Generic Modelling, VR & Computer Graphics. CFD
- Design for Manufacture / Assembly / Serviceability / Reliability / Endurance / Ergonomics.
- Design & Lifting Methodologies: Aerospace/ Automotive/ Defence/ Electronic/ Heavy Engg.: Case studies

Manufacturing and Tooling

- Conventional and advanced manufacturing, tooling and material processing technologies – CAM / CIM / CNC / Robotics. Micro and Nano Fabrication Technologies
- Rapid Prototyping, Reverse Engineering and Rapid Tooling
- Process Simulation, Process Automation and Virtual Manufacturing

Integration and Induction Technologies

- Product Development Management – PLM / PDM/ ERP/ Virtual Enterprises / Concurrent Engineering and Collaborative Product Commerce
- IT for Product Development – Software, Hardware and Networking issues
- FMECA, Qualification, TQM and TPM Methodologies
- Internet-based Product Development and E-Manufacturing
- Energy Efficient Management – Green Manufacturing

Micro Air Vehicles and MGVs

- Micro Air Vehicles (MICAV) and Mini Ground Vehicles (UGV)
- Fixed Wing, Flapping Wing (Omithopter), Rotary Wing and VTOL MAVs

Sensor Technologies

- Advances in detection, measurement, monitoring and control
- Chemical Sensors, Intelligent Sensors, Micro & Nano Sensors and Bio Sensors

2. TARGET SEGMENT:

Professionals from Automotive, Aeronautical, Defence, Space Research and Engineering sectors will be participating and visiting the stalls. Confirmations have already been received from companies located in USA, UK, Germany, Malaysia and China to participate and exhibit their products in the event.

The conference will be useful for professional engineers, academicians, research scholars and students from Industrial design, analysis, and manufacturing groups.

The benefits for Participants are:

- Expose to emerging technologies and advances in engineering and technologies. Especially design and analysis areas.
- Interacting with interested subject experts
- Learning and interacting with visionaries, industries chiefs, policy makers and technology experts drawn from world wide.
- Publishing their work and getting clarification for their continuity of work.
- Getting to know professional organizations involved with the conference and as well benefits from the professional organizations.

Participants for the past TEAM TECH events were from the following industries.

Automotive & Auto Ancillary Sectors: Ashok Leyland, Bajaj Auto, Brakes India, Daimler Chrysler India, Eicher Motors, General Motors, Hero Honda, IFB Auto, Lucas TVS, LML, MRF, MICO, Mahindra & Mahindra, Maruti Udyog, Royal Enfield, Reva Electric Car Co., Tata Motors, TVS Motors, Toyota Kirloskar, Volvo India, Yamaha Motors, etc.

Defence, R&D and Aerospace Sectors: ADA, ADE, ARDE, ASL, CEMILAC, CAIR, CABS, CVRDE, DARE, DMRL, DLRL, DEBEL, DRDL, DFRL, LRDE, GTRE, ISRO Satellite Centre, Institute of Armament Technology, MTRDC, NPOL, Naval Materials Research Laboratory, NAL, Ordnance Factories, RCI, VSSC, ISRO, LPSC, HAL, NAL, etc.

Engineering Services and Software/ Hardware Firms: Ansys, Altair, ACTech GmbH, Armstrong Design India, Auto Desk, Cranes Software, CADES, Delphi, Delcam Software, DC Designs, EOS GmbH, EID Parry, GE India, Geometric Software, Gold Star Jewellery, Honeywell, Haritha Infoserve, HCL Technologies, Intel, Infosys, Infotech, L&T, Camsys Technologies Marco Polo, Materialise, MTAB Engineers, Neil Soft, OEN India, PTC, Philips India, Protosys, Quest, , Satyam Computers, Solidworks, Simulation Designs, Titan Industries, Tata Johnson, UGS, Uniontech, , Vectraform, Wipro , ZCorp, 3DPD, etc.

Public Sector/ Central Government Units/ Tool Rooms: HMT, CMERI, BEL, GTTC, BHEL, BEML, Ordnance Factories, Central Tool Room, NTTF, Indian Railways, etc.

Accademics: IISc, IIT Bombay, IIT Madras, IIT-Delhi, , IIT-Kanpur, NIT Trichy, NIT Srinagar, NIT Calicut, NIT Jalandar, NIT-Suratkal, Anna University, VIT - Vellore, NTTF, RVCE, BIT, UVCE, MSRAS-TIFAC, IIIT Pune, Dr. MGR Deemed University, Malnad College of Eng., PESIT, PSG-TIFAC Centre, National University of Singapore, etc.

3. REGISTRATION FEES:

Industrial Participants	– Rs.4000/-
Academic Participants	– Rs.2500/-
NAFEMS / EDAF Members	– Rs.3000/-

Registration fee includes Conference & Exhibition, Conference Kit, Participation Certificate, Lunch and refreshments.

All payments are to be made by Cheque / DD in favour of 'TEAM TECH 2009' payable at Bangalore.

4. BRIEF INTRODUCTION OF ORGANIZERS:

The event has the backing of several renowned professional bodies like NAFEMS (UK), Engineering Design & Analysis Forum (EDAF), National Design & Research Forum (NDRF) - Institution of Engineers India, Rapid Prototyping Society of India (RPSI), Indian Institution of Production Engineers (IIPE), and Association for Machines & Mechanisms (AMM).

NAFEMS:

NAFEMS a UK based professional body is the only worldwide independent association dedicated to analysis and simulation technologies. For past 2 decades, NAFEMS has been continuously striving for enhancing the quality of analysis and simulation practices across the world. NAFEMS has provided new vistas to several international organisations in domains such as Dynamics, Optimisation, Multiphysics, Heat Transfer, Non-linear Analysis, Electro Magnetics, Process simulation, Biomechanics and CFD.

www.nafems.org

ENGINEERING DESIGN & ANALYSIS FORUM (EDAF):

Engineering Design and Analysis Forum (EDAF) is a focused national forum for Design and Analysis professionals. Renowned scientists, professionals and academicians, from Automotive Industries, Establishments of Defence, Space and Atomic Energy, CSIR Laboratories, CAE service providers / software developers, IITs, IISc and NITs constitutes the EDAF council

www.edafindia.org

NATIONAL DESIGN & RESEARCH FORUM (NDRF) - INSTITUTION OF ENGINEERS INDIA:

NDRF established in the year 1985 as a wing of the Institution of Engineers (India), provides a national platform for engineers, scientists and technocrats engaged in design activities and has emerged as a forum for exploring emerging design and development concepts.

www.ndrfindia.org

RAPID PROTOTYPING SOCIETY OF INDIA (RPSI):

RPSI strives to promote active interaction among the professionals engaged in rapid prototyping and tooling techniques. RPSI encourages technology applications, establishes information banks and supports academic units.

www.rapidsociety.org

INDIAN INSTITUTION OF PRODUCTION ENGINEERS (IIPE):

IIPE Provides a common platform for exchange of information for practicing engineers in various aspects of manufacturing engineering, CAM, CIM, Robotics, Automated Manufacturing, CAPP and manufacturing innovations.

<http://iipeonline.org>

5. THE ORGANISING COMMITTEE:

Hon. Advisor

Lt. Gen. (Dr.) V J Sundaram

President – AMM (Association for Machines & Mechanisms)

Hon. Advisor

Dr. S Mohan

Professor, Dept. of Mechanical Engg., Indian Institute of Science

Chairman – Advisory Committee

***Padmashree* Prof. R M Vasagam**

Former Vice Chancellor – Anna University

Chairman – Organising Committee

Dr. L. V. Muralikrishna Reddy

Hon. Chairman, Indian Institution of Engineers – India, KSC

Convener

Dr. K. Gopalakrishnan,

Member BoG, NDRF (National Design & Research Forum)

6. ADVISORY COMMITTEE:

TEAM TECH 2009 has the privilege of having many luminaries, who have carved a niche in their fields, as the core members of the Honorary Advisory Committee. They include

Dr. R. Chidambaram - Principal Scientific Advisor to Govt. Of India,
Dr. W. Selvamurthy - Chief Controller Research & Development, Min. of Defence, DRDO, New Delhi
Dr. A.Sivathanu Pillai - Distinguished Scientist, CC R&D (ACE) & CC RD (NS), DRDO, New Delhi
Dr. Prahlada - DS & CCR&D(SI), Ministry of Defence, DRDO, New Delhi
Dr .T. Ramasami – Secretary, Department of Science & Technology, New Delhi
Mr. T. Mohan Rao –Director, GTRE, Min. of Defence, DRDO, Bangalore
Mr.K.Tamilmani – Outstanding Scientist, Chief Executive (Airworthiness), CEMILAC, Bangalore
Dr. A.R. Upadhya - Director, National Aeronautics Laboratory(NAL), Bangalore
Dr. K. Radhakrishnan – Director, Vikram Sarabhai Space Centre (VSSC), Thiruvanthapuram
Shri. M Annamalai – Director, Satish Dhawan Space Centre, Sriharikota Range A.P
Dr. T.K. Alex – Director, ISRO Satellite Centre, Dept. of Space, Bangalore
Dr. R. Sreehari Rao – Director, Defence Electronics Research Laboratory (DLRL), Hyderabad
Shri. S. Sundaresh - Outstanding Scientist & Director, CVRDE, Chennai
Shri. B.R.Satyan – Director, Central Manufacturing Technology Institute, Bangalore
Shri. A.K. Kapoor - Emeritus Scientist, Centre for Fire, Explosive & Environment Safety (CFEES), Delhi
Dr. V. Jayaraman – Director, Earth Observation Systems, Bangalore
Shri Surendra Kumar - Outstanding Scientist, Director ARDE, Pune
Dr. K.D.Nayak - Director, Advanced Numerical Research & Analysis Group (ANURAG), Hyderabad
Prof. Lalit M Patnaik - Vice Chancellor, Defence Institute of Advanced Technology, Pune
Shri. Sudarshan Maini - Chairman Maini Group, Bangalore
Dr. K. Ramachandra – Former Director, GTRE, Bangalore
Mr. O. P. Khanna - Past Chairman, Indian Institution of Production Engineers (IIPE), Bangalore

7. KEYNOTE SPEAKERS:

Outstanding case studies from aerospace, automotive, defence and manufacturing sectors were presented by Industry leaders at the TEAM TECH Conferences. Some of the Keynote Speakers of the previous TEAM TECH Conferences were ...

- **"CAX process as a key enabler for engineering the new Mercedes-Benz SLK"**
Dr. Bharat Balasubramanian - Vice President, Daimler Chrysler, Germany
- **"PLM Technologies for Aerospace & Defence"**
Mr. James Heppelmann - Executive Vice President, PTC, USA
- **"Automotive Design Case Studies"**
Mr. Dilip Chhabria - Chief Executive Officer, DC Designs Pvt. Ltd., Mumbai
- **"Rapid Prototyping and Tooling Practices through FDM"**
Mr. Scott Crump - Chief Executive Officer, Stratasys Inc., USA
- **"E-Manufacturing and Product Development"**
Mr. Hendrik John - Principal Inventor of Envisiontech GmbH, EOS, GmbH, Germany.
- **"Full functional prototype casting for the automotive and aerospace industry"**
Mr. Ray Wuensche - Director, ACTech, Germany
- **"Collaborative Offshore Engineering Design"**
Mr. Sudhir Sethi - President & E.D, Infotech Enterprises Ltd., Hyderabad
- **"Rapid Prototyping through Polyjet Technology"**
Ms. Adina Shorr - Chief Executive Officer, OBJET Geometries Ltd, Israel
- **"Advanced Tooling Materials / Solutions"**
Mr. Harald Wiedemann, Head-Global Marketing, HUNTSMAN Advanced Materials, U. K
- **"Indian Design Scene – Historical Review"**
Prof. K Munshi, IDC, IIT-Bombay, Mumbai
- **"Advantages of Subtractive Rapid Manufacturing"**
Mr. Kosuke Suzuki, International sales, ROLAND DG Corporation, Japan

- **"Application of advanced software tools for Reverse Engineering & CAI"**
Mr. Patrick Castera, InnovMetric Inc, Canada
- **"Photogrammetry & 3D Scanning for Inspection of Automotive Components"**
Dr. Brueckmann, Brueckmann GmbH, Germany
- **"Maithreya Project-Advanced CAD/CAE/RE/Tooling Techniques for building World's Largest Buddha Statue"**
Mr. Pulak Mukerjee / Mr. Daniel Raravi, Delcam Software Solutions Pvt.Ltd, Bangalore
- **"Rapid Mock-up Models using PLT (Paper Lamination Technology)"**
Mr. Masahiko Imoto, Impact International, Japan
- **"Rapid Manufacturing for Biotechnologies"**
Dr. Ian Gibson, National University of Singapore, Singapore
- **"Challenges in Air Craft Structures"**
Dr.Sambasivrao, Infosys Technologies, Bangalore
- **"Finite Element Approach in Automotive Industry -Case study"**
Dr.C.V.R.Reddy, Plexion Technologies India Pvt. Ltd.
- **"Simulation-Driven Design of Vehicles for Front Crash Safety"**
Dr. Anindya Deb, Associate Professor, CPDM, IISc, Bangalore
- **"ARJUN Battle Tank Technologies & Spin-offs"**
Mr. Sundaresan, Director, CVRDE
- **"Quality CAE practices and ensuing business Benefits"**
Mr. Tim Morris, Chief Executive, NAFEMS, UK
- **"Engineering Aspects of Chandrayaan –I"**
Mr.M. Annadurai, Project Director, CHANDRAYAAN – I, ISRO
- **"Design and development of SCORPIO"**
Dr. Pawan K. Goenka, Chief Operating Officer, Mahindra & Mahindra Ltd.
- **"State Of The Art Of Industrial CFD"**
Prof Charles Hirsch, President, NUMECA International, Belgium
- **"World CAD Conferences and Exhibitions: An Asian Centre of Excellence"**
Dr Les A. Piegl, Managing Director, CAD Solutions Company Limited.
- **"Indigenous Initiatives in developing an environmentally friendly car"**
Mr. Chetan Maini, Vice President, Reva Electric car Company, Bangalore
- **"FEA: Past, Present & Future"**
Dr. Suresh Nagesh, Daimler Chrysler Research & Tech. (I) Pvt Ltd. Bangalore
- **"Technology @ Speed of Thought: Recent Developments in CAE"**
Mr. Rohit Rawte, Da Vinci Design Solutions Pvt Ltd. ,Pune

8. SPONSORSHIP:

Sponsorship of TEAM TECH 2009 offers a unique opportunity to be directly identified with this prestigious event and provides maximum exposure to a top-notch audience of senior professionals, in a business conducive environment.

Sponsorship Tariff are Platinum: Rs.5,00,000/- ; Gold: Rs.2,50,000/- and Silver: Rs.1,50,000/-

Some of the Past Sponsors of the TEAM TECH Conference were **ANSYS SOFTWARE, HUNTSMAN, PTC, ANNA UNIVERSITY (Platinum), Z CORPORATION, MARCOPOLO, CADES, INTEL, APM Technologies, Roland DG Corporation, ACTECH, EOS, ALTAIR ENGINEERING (Gold), FARO, MATERIALISE, SIEMENS, SCHULTHEISS, 3DPD, STRATASYS , AUTO DESK, TOTAL PROTOTYPING (P) LTD. , MTAB Engineers, AXSON, Siemens(Silver).**

9. EXHIBITION:

An exhibition is scheduled alongside the conference with the participation of several national and international vendors from the functional domains of CAE, Rapid Prototyping, Advanced Machine Tools, Reverse Engineering and Engineering Service. While showcasing trend setting technological developments in the industry, this event provides a clear picture of the innovative effort put in by the industries in terms of cost competitiveness, quality, reliability and productivity.

The benefits for Exhibitors are:

- Exhibit their products to industries, scientists, technocrats
- Market their products and interact with user groups
- Get to know what is going on in the world and learn from the competitors
- Get to know about the professional organizations and their involvement to promote the technologies.
- Network off people and organizations, interaction between industry-Institute-R&D-Government-Service Providers-Professional organizations

Exhibition Stall are available as 4 Sq Meters (Rs.40,000/-) ; 6 Sq Meters (Rs.60,000) ; 9 Sq Meters (Rs.90,000/-) and 12 Sq Meters (Rs.1,20,000).

Some of the prominent vendors who have participated in the TEAM TECH exhibition include:

ANSYS, FARO, PTC, AUTODESK, HUNTSMAN, Z CORPORATION, MATERIALISE, STRATASYS, 3D PRODUCT DEVELOPMENT, ALTAIR, MTAB, CRANES SOFTWARE, THINK3 DESIGNS, APSOM INFOTECH, GEO INFOMATICS, AXSOM, APM TECHNOLOGIES, ISRO, UNISOFT, INTEL, HCL TECHNOLOGIES, INFOTECH ENTERPRISES, RANAL SOFTWARE, REVA ELECTRICAL CAR, SENSABLE TECHNOLOGIES, ROLAND DG CORPORATION, CREATIVE INFOCOM, PRESCIENT TECHNOLOGIES, SOLIDWORKS, RSI GROUP. EASI, DAYANAND SAGAR INSTITUTIONS, MRSAS, NTT, BEML, CENTRAL TOOL ROOM LUDHIANA, INNOVATIVE SOFTWARE SOLUTIONS, SHANGHAI UNION TECHNOLOGIES, APC, KALVA ENGINEERING, MINISTRY OF EARTH SCIENCE, NFTDC, ANURAG, SITAR, CADD Centre, etc.

Exhibition Timing

For conference Delegates : 8.30 AM to 6.00 PM

For Public : 2.30 PM to 6.00 PM (Exhibition Entry Free)

For more details on Exhibition / Sponsorship opportunities contact Mr. Mahesh .R Organising Secretary – TEAM TECH 2009 (9845018715).

10. PAPER PRESENTATION:

Authors drawn from academic, R&D and Industry, presented technical papers at the TEAM TECH events. Students from all over India also demonstrated their prototype models and presented papers

Papers are invited on all aspects of thrust areas of TEAM TECH 2009. Authors can email/ post the abstract on or before 16 October 2009 to the Convener, TEAM TECH 2009.

11. SOUVENIR:

A Souvenir will be brought out during TEAM TECH 2009 and which will be distributed to the delegates / exhibitors / sponsors/ speakers/ invited guests/ members of supporting professional bodies/ supporting educational & Govt. Institutions/ exhibition visitors. The Souvenir will contain contact details and profile of all Sponsors & Exhibitors and profile of Keynote Speakers along with other details of TEAM TECH 2009.

Souvenir tariff are as follows:

Outer Cover Page	:Rs.25,000/-	Full Page	:Rs.10,000/-
Half Page	:Rs.5,000/- ;	Quarter Page	:Rs.2,500/-
Full Page Colour	:Rs.15,000/-	Half Page Colour	:Rs.7,500/-

12. TEAM TECH AWARDS OF EXCELLENCE

TEAM TECH Awards of Excellence for contribution to design and development in technology were constituted during TEAM TECH 2004 and will also be given at the TEAM TECH 2009 Conference.

The recipients of these awards at the previous TEAM TECH Conference were

TEAM TECH 2004 – 1)TATA Motors – Pune 2)Mr. U. Chandrashekar, Scientist, GTRE, Bangalore and **3) Dr. J.K.B Parthiban**, Neuro-Surgeon, Kovai Medical Centre & Hospital, Coimbatore.

TEAM TECH 2006 – 1)Prof. S.R Shankpal, Director, MS Ramaiah School of Advanced Studies, Bangalore and **2)Prof. B.Ravi**, IIT Bombay.

TEAM TECH 2007 – 1)TVS Motor Company Ltd., Hosur, **2)TATA Consultancy Services** and **3)Anna University**

TEAM TECH 2008 – 1)Dr. Dilip Mahanty, CEO, I-Design Engineering Solutions, **2)Mr. Nitin Ranade**, Vice-President (Automotive Sector), Mahindra & Mahindra, **3)Dr.Mukesh Agarwal**, Director, 3DPD, and **4) Huntsman Advanced Materials**.

13. VENUE:

Jnana Jyothi Auditorium, Bangalore.

14. CONTACT ADDRESS:

Dr. L. V Muralikrishna Reddy

Chairman, Organising Committee – TEAM TECH 2009

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