



DECEMBER 17-18, 2020

**ONLINE CONFERENCE ON
IT IN DEFENCE**

(ITD-2020)

9:30 AM to 4:30 PM



CONFERENCE THEME

IT in Defence Manufacturing

MODE OF CONFERENCE

Online in Google Meet or Webex

ABOUT CONFERENCE

CSI-BC has been pioneering to bring the various DRDO labs and the defence services together over the years by organizing the Conference on Information Technology in Defence (ITD) by annually. The last one was held in January 2018 with the theme Digital Battlefield. This year the theme chosen is IT in Defence Manufacturing. The theme and the programme has been conceived with inputs from very senior advisors from forces and DRDO labs.



Globally, the Defence technology is going through major innovations to face challenges in national security. With advent of Atmanirbhar Bharat promoted by GoI, it is imperative for every defence manufacturing firm of India to revisit their manufacturing strategy for this industry. Innovation, Collaboration, Partnership, Betterment of manufacturing practices using IT, IP Protection and Rights are critical requirements to ensure to meet the goals. CSI has been pioneering to bring the various DRDO labs, the three defence units and IT industry to deliberate on various aspects of IT in defence. The program is conceived with inputs from very senior advisors from forces, DRDO labs.

Defence requires the best of technologies available irrespective of domain. Worldwide new technologies are introduced first in design and development of defence products and subsequently percolated to other industrial and consumer products. Design and development of complex products for defence application involve meeting stringent user requirements, challenges in design and development, extensive testing, big data handling, communication, cyber security demonstration, user acceptance, competitiveness in global market, national security etc., and it calls for introduction of new technologies in defence product development. Defence Products are generally high value low volume. Information Technology (IT) plays a vital role in integrating and automating most of the activities involved in development of any product. In this context, the theme for this Conference has been chosen as IT in Defence Manufacturing. Use of IT in manufacturing involves the use of digitalization and hence the areas covered will be the digitalization for concept to the service. The topics will cover the use of IT in CAD, PLM, CAM, Methods, Process Planning, Inspection, Digital Manufacturing, Additive Manufacturing, Sheet Metal Manufacturing, Composite Component Manufacturing, ERP. The key enablers of Smart manufacturing are Internet of Things or Intranet of Things (IoT), Industrial Internet of Things (IIoT), Cloud Computing and Cyber Physical System. One of the key areas that will be discussed and which points to the future will be Industry 4.0. Industry 4.0 consists of autonomous systems (machines and robots that act autonomously) also named as Cyber Physical System (CPS), IoT/IIoT (to send and receive data across machines), cloud computing (store, manage and process data remotely), simulation, augmented reality, additive manufacturing, big data and cyber- security. It is perceived as fourth industrial revolution which has potential for achieving manufacturing excellence in defence sector. This conference will discuss how IT is used in different ways in the Defence Manufacturing in Indian defence products development.

THE TOPICS THAT WILL BE DELIBERATED INCLUDE:

- PLM, ERP & MRO for Lifecycle Management
- Collaborative Engineering and Digital Roll out
- Virtual Reality / Augmented Reality
- Additive Manufacturing
- Composite Manufacturing
- Robotics and Assembly Automation
- Design & Development in Private Cloud
- Industry 4.0, IoT, IIoT
- Cyber Physical System for Quality of manufacturing
- Cyber-Physical Systems & Smart Manufacturing
- Cyber Security Integration
- RFID technologies for inventory management
- Big data and Analytics
- Block Chain and Supply Chain Management (SCM)
- Visual based Image & Data Processing
- High Power Computing & Grid Computing



THE PROGRAM WILL BE MOST RELEVANT TO:

- Scientists and Senior Managers from Defence Labs and Establishments
- Defence Weapons and Applied Product Manufactures and Suppliers
- PSUS in Defence Industry
- Professionals from IT Industry
- Academicians
- Students
- Government Officials

TENTATIVE/ CONFIRMED LIST OF SPEAKERS

Overview of Industry 4.0

Prof. Amaresh Chakrabarti

Chairman, Center for Product Design,
IISc, Bangalore

Computational Ergonomics

Prof. Dibaker Sen

Professor, Center for Product Design,
IISc, Bangalore

Digital Manufacturing

Pro. Gurumoorthy

Professor, CPDM, ISSC and CE SID,
IISc, Bangalore

PLM in Aerospace Industry

Smt. V Vani

TD (PS&P) , ADA

Multi-Station Multi-Axis Hybrid Layered Manufacturing (MSMS- HLM) and Other State of the Art Technologies

Prof. K Karunakaran

Professor, Mechanical Engineering, IIT
Mumbai

Additive Manufacturing

Mr. B K Nagesh

Scientist D, GTRE, DRDO, Bengaluru

Combat Aircraft Production - An overview

Mr. M S Velpari

Director of Corporate Affairs, HAL

Implementation of Industry 4.0 solution - A case study

Dr. Ganesh Kumar

Prof. Mechanical Engg Dept

Emerging Technologies in Defence Manufacturing

Dr P Selvaraj

Former OS/TD(PS & P), ADA

IT in Advanced Manufacturing

Lt. Gen Subramanian

LMW, Coimbatore

Industrial IOT

Mr Ramkumar

Maxbyte,Tech, Coimbatore



ABOUT CSI

Computer Society of India (CSI) is the largest IT user society in India with 72 chapters across the country and with nearly a hundred thousand members. The vision of CSI is to facilitate research, knowledge sharing and profession enrichment among IT professionals across industry segments. Various Special Interest Groups such as Information Security, Data Analytics, Artificial Intelligence, e-Governance evangelize the use of technologies. CSI has been organising various seminars, conferences, and technical talks periodically. IT f or Defence (ITD) is one such flagship event of the CSI.

CSI BC has been conducting ITD every other year and this is the 12th in the series.



CONFERENCE REGISTRATION FEE

(Per Session of Half Day, full day, Full Conference)

Industry, Corporate R&D Labs, General academicians (Members of CSI)	Rs. 200, 300, 600
From Industry, Corporate R&D Labs, General academicians (Non-Members of CSI)	Rs. 250, 400, 800
Students (Members of CSI)	Rs. 100, 150, 200
Students (Non-Members of CSI)	Rs. 150, 250, 300

+ GST @ 18%

Please note that all delegates will be able to attend the exhibition throughout the duration of the conference

SPONSORSHIP PACKAGE

Type	Amount in Rs.	Speakers Slot	Complimentary Registrations
Platinum	40,000/- + GST @ 18%	40 Mins	4
Diamond	20,000- + GST @ 18%	20 Mins	3

Please note we are planning and examining online platforms that will allow for branding of sponsors names on the sides of the projection screens and also make available virtual exhibition stalls.

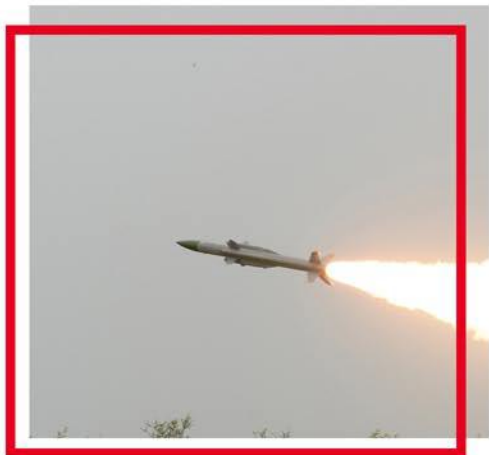
Following are some among the many luminaries who have addressed the August gathering in the past:

- ↘ Dr. V.S. Arunachalam, Former SA to RM
- ↘ Dr. S. Christopher, Former Chairman DRDO
- ↘ Dr. V.K. Aatre, Former SA to RM
- ↘ Dr. V.K. Saraswat, Former SA to RM
- ↘ Dr. Prahlada Ramarao, Former VC, DIAT, Pune
- ↘ Dr. C.R Chakravathy, Former Director DRDO
- ↘ Dr. K D Nayak, DS & CC R&D, New Delhi
- ↘ Dr. Ajit T Kalghatki, Former BEL R&D Director
- ↘ Dr. Tamilmani, Former DS & DG (Aero)
- ↘ Dr. S.S. Sundaram, Former Distinguished Scientist, CC R&D
- ↘ Dr. S. Vardarajan, Director, LRDE, Bangalore
- ↘ Dr. G. Athithan, OS, Former, Associate Director, CAIR
- ↘ Lt. Gen Devendra Kumar
- ↘ Dr. B.J Srinath, Senior Director, CERT-In, GOI
- ↘ Dr. Srihari Rao, DRDO

ADVISORY COMMITTEE

- ↘ Dr G. Satheesh Reddy, Secretary, Department of Defence R&D & Chairman, DRDO
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- ↘ Dr. Tessa Thomas, DG(Aero), DRDO, Bangalore
- ↘ Mr. B. Jaipal Reddy, Managing Director Apollo Computing Laboratories Pvt.Ltd.,
- ↘ Dr. Prahlada Ramarao, Former VC, DIAT, Pune and CC(R&D), DRDO
- ↘ Dr. K Tamilmani, former DG(Aero), DRDO, Bangalore
- ↘ Shri Jitendra Jadhav, Director CSIR-NAL, Bangalore
- ↘ Dr Swarnalatha R Rao, Past Chairperson, CSIBC, Past Execom Member of CSI & Fellow of CSI
- ↘ Prof. A K Nayak, Immd. Past President CSI, Mumbai
- ↘ Dr. R.K Vyas, President, CSI, Mumbai
- ↘ Prof. Amaresh Chakrabarti, Chairman, Centre of Product Design, IISC, Bangalore
- ↘ Prof. K Prakasan, Principal, PSG College of Technology, Coimbatore

CSI COMMITTEE



Registration fees:

(Registration Fees include Certificate)

Meraevents link:

<https://www.meraevents.com/event/csibc-itd2020>

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CSI Bangalore Chapter

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Event Chair:

Dr. R K Ramanathan, Ex-Project Director,
ADA, Past Chair, CSI, BC

Event Co-Chairs:

Ms. Bhanumathi K.S, Chairperson, SIG-FM,
Past Chair, SI-BC

Dr. P. Selvaraj, OS, Technology
Director(PS&P), ADA, Bengaluru

Prof. M.S. Prasad Babu

Regional Vice President (Region-V)

Organizing Committee Chair:

Dr. Nalini N, Chairperson, CSI-BC

Program Co-ordinator:

Mr. T. Sabapathy

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Industry Alliance:

Mr. Raju Gowda, Ms. Madhurima De

DRDO Alliance:

Mr. Krishna Rajendra Neeli

Program committee:

Mr. Suresh T, Dr. Nagaveni, Mr.Sudershan, Mr.

Ravindra T S, Dr.Sastry V A, Mr.Nagaraja, Dr.

Swarnalatha Rao

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Mr.Ravi.K.S, Dr.Pradeep Desai, Mr.Badrinath,

Ms. Manjula G, Hon. Secretary, CSI-BC

Sridhar H.C @ CSI Bangalore Chapter

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