



### Registration Form

Title : .....

First Name : .....

Surname : .....

Designation : .....

Specialization : .....

University/Organization : .....

Office Address : .....

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Contact No. : .....

E-mail : .....

Bank Draft / Cheque Info : .....

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#### FOR DETAILS, PLEASE CONTACT:

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### National Seminar on Advanced Materials & Materials Technologies for Prototypes and Systems (AMMTPS-2019)

Missile Systems

Aerospace Systems

## AMMTPS-2019

(A Special Highend Seminar to finalize Road Maps for Future Materials & Technologies)

Naval Platforms

Materials Systems

**Commencing DECENNIAL CELEBRATIONS OF**  
 TR Anantharaman Education & Research Foundation (TRAERF), Hyderabad

**Hosted by**  
 Defence Materials and Stores Research & Development Establishment  
 DMSRDE, DRDO, GT Road, Kanpur - 208013, India  
 At DMSRDE Auditorium • April 3<sup>rd</sup> - 6<sup>th</sup>, 2019  
 In Association with SFA Kanpur Chapter, Kanpur

## About TRAERF

The T R Anantharam Education and Research Foundation (TRAERF) was established on September 23, 2009 in Hyderabad, India in recognition of the pioneering contributions of Professor T R Anantharaman (commonly known as "TRA"), a doyen of Metallurgical Engineering, in furtherance of education and research in the fields of materials science and material engineering.

This Foundation has been specifically set up to build upon his memorable work and is dedicated to the enhancement of knowledge skills of students, as well as of teachers, across all engineering disciplines, particularly Material & Metallurgical Engineering.

## About DMSRDE and About AMMTPS-2019

Defence Materials and Stores Research and Development Establishment (DMSRDE) in present form was constituted in 1976 by the merger of three establishments erstwhile Defence Research Laboratory (Materials), Textiles & Stores Research & Development Establishment and Defence Institute of Stores Preservation and Packaging. DMSRDE has continuously progressed into an important laboratory of DRDO earmarked to conduct R&D activities in nonmetallic special and functional materials keeping in view of the present and future requirements of the Indian Defence services and the major programmes of DRDO.

DMSRDE has been chosen to host this special event in order to conduct focused discussions among Indian scientists, particularly by S&T system developers of DRDO, to fulfill the following two principal goals of the seminar:

- To evolve roadmaps for the development and deployment of advanced materials
- To develop Material technologies and Material systems capable of addressing the requirements of futuristic Indian National Prototypes and Systems in general, and in particular, those to Indian Defence in the areas of Missile, Aero and Naval Applications.

The Seminar is expected to have the active participation of DRDO Labs Industry and the personnel of the Indian Armed Forces as well as those who are involved in several National Materials Programmes and Initiatives.

## About Kanpur

Kanpur is one of the most historic cities of Uttar Pradesh and also one of the largest industrial cities of India. Located on the banks of the River Ganges, Kanpur was one of the main centres where industrial revolution began in India. The city was founded by the rulers of the Chandela Dynasty between the 10<sup>th</sup> and the 13<sup>th</sup> centuries. Kanpur is also one of the main tourist destinations in Uttar Pradesh. Some of the Kanpur's major attractions include Bithoor, LN Fores Zoo and J.K. Temple. The nearby tourist attractions include Agra, Mathura Vrindawan in the West; Allahabad, Varanasi in the East; Khajuraho in the South; and Lucknow, Nainisharayan (Sitapur) in the North.



## Proposed Technical Programme

### Wednesday, April 03, 2019 (DAY – 1)

#### Registration

**Inaugural Session:** Chief Guest: Dr. VK Saraswat, NITI Aayog, New Delhi  
Key Note: Dr. SV Kanur, DS & DG (NSM), DRDO on  
MATERIALS FOR FUTURE DEFENCE SYSTEMS

Presided by: Professor P Rama Rao, President, TRAERF

**Technical Session – I:** Missile Systems & Material Solutions (Chair: Dr. G Sundarajan, ARCI & Trustee, TRAERF Hyderabad; Rapporteur: Dr. Jalkeorh Joshi, DRDL, Hyderabad)

**Invited Lectures:** (i) MSR Prasad, DS & DG (MSS), DRDO, Hyderabad on Missile Systems & Materials Requirements; (ii) Dr. BVN Charyulu, DRDL, Hyderabad on Hypersonic Vehicle Programme and Materials; (iii) B Saha, RD, RCMA (Materials), CEMILAC, Hyderabad on Materials for Missile Systems

**Technical Interactions:** Missiles Industries (Chair: Shri V Udaya Bhaskar, C&MD, BDL, Hyderabad; Co-Chair: MFM Babu, Director, ASL, Hyderabad; Rapporteur: Shri JN Shrivastava, DMSRDE, Kanpur)

### Thursday, April 04, 2019 (DAY – 2)

**Technical Session – II:** Aero Systems & Material Solutions (Chair: Prof. D. Banerjee, IISc, Bengaluru; Rapporteur: Anil K Dixit, DMSRDE, Kanpur)

**Invited Lectures:** (i) Dr. Tessa Thomas, DG (Aero), DRDO, Bengaluru on Major Aero Programmes & Material Requirements; (ii) Dr. Vikas Kumar, Director, DMRL, Hyderabad on Accelerated Materials Development for Aero Applications.

**Technical Session – III:** Aero Combat Systems & Materials Solutions (Chair: Dr. K Bhanu Sanikara Rao, Trustee, TRAERF, Hyderabad; Rapporteur: Dr. SM Abbas, DMSRDE, Kanpur)

**Invited Lectures:** (i) Dr. GS Deshpande, PD (CA) & Director, ADA, Bengaluru on Aero Combat Systems for Indian Defence; (ii) Dr. K. Vijayaraju, ADA, Bengaluru on Composites: Design and Applications.

**Technical Interactions:** Aero Industries (Chair: Shri R Madhavan, C&MD, HAL, Bengaluru; Co-Chair: Dr. MZ Siddiqui, Director, GTRE, Bengaluru; Rapporteur: Dr. DN Tripathi, DMSRDE, Kanpur)

### Friday, April 05, 2019 (DAY – 3)

**Technical Session – IV:** Naval Systems & Material Solutions (Chair: Dr. S C Sati, DRDO Chair, R&D(E), Pune; Rapporteur: Dr. Debmalya Ray, DMSRDE, Kanpur)

**Invited Lectures:** (i) Shri PV Jose, NPOL, Kochi on Naval Systems & Materials; (ii) Dr. Manoranjan Patil, Director, MMRL, Ambemath on Advanced Polymers for Naval Applications

**Technical Session – V:** ATVP & Material Programmes (Chair: Dr. G Mukundiah, TRAERF, Hyderabad; Rapporteur: Dr. Partha Ghosal, DMRL, Hyderabad)

**Invited Lectures:** (i) Chairman, ATVP, New Delhi on ATVP Programme and Materials Requirements; (ii) Dr. R Balasubrahmanian, DMRL, Hyderabad on Naval Steels and Manufacturing Technologies

**Technical Interactions:** Naval Industries (Chair: Dr. V Bhujanga Rao, Ex-DG (NSM) & NIAS, Bengaluru; Co-Chair: Dr. OR Nandagopani, Director, NSTL; Rapporteur: Shriendra Kumar, DMSRDE, Kanpur)

### Saturday, April 06, 2019 (DAY – 4)

**Technical Session – VI:** Materials Programmes for Defence (Chair: Dr. KU Bhaskar Rao, Former Director, DMSRDE, Kanpur; Rapporteur: Dr. Debmalya Ray, DMSRDE, Kanpur)

**Invited Lectures:** (i) Dr. Anil A Gokhale, IIT-B, Mumbai on National Materials Policy; (ii) Dr. N Eswara Prasad, Director, DMSRDE, Kanpur on Defence Material Prototypes and Systems

**Technical Interactions:** Materials Production (Chair: Maj. Gen SG Kulkarni, Former DG, Indian Army (Infantry); Co-chair: Dr Ravindra Kumar, Director, DL, Jodhpur; Rapporteur: Shri AS Parthasarathy, DMSRDE, Kanpur)

**Voluntary Function:** Chief Guest: Dr. G Satheesh Reddy, Chairman, DRDO & Secretary, DD RAD, New Delhi  
Guests of Honour: 1. Maj Gen SG Kulkarni, Ex-DG, Indian Army (Infantry), New Delhi

2. Prof. Ashay Karandikar, Director, IIT Kanpur

## Registration Information :

1. Industry Participants	Rs. 15000/-
2. R & D institutions/Laboratories	Rs. 10000/-
3. Academic Faculty Members	Rs. 10000/-
4. Doctoral Students	Rs. 5000/-
5. Meritorious Students (Through Selection)	NIL

## Sponsorship :

Banquet Dinner	5 Lakh	(Banquet Dinner)
Platinum Sponsor	3 Lakh	(Dinner)
Gold Sponsor	2 Lakh	(Lunch)
Silver Sponsor	1 Lakh	

Each Sponsor will be given half page coverage in colour in the souvenir and registration of 2 free delegates in the conference.

## Technical Exhibition :

1. Special Pavilion (18x18 feet)	5 Lakh
2. Large Pavilion (12x12 feet)	2 Lakh
3. Small Pavilion (9x9 feet)	1 Lakh

## Registration fee can be paid to the following bank account.

Name of the Bank	: State Bank of India, Chandrayangutta Branch, Kanchanbagh Post, Hyderabad-500058, Telangana
IFSC Code	: SBIN0003026
Account Name	: T.R. Anantharam Education and Research Foundation
Account No.	: 30931304474

## For Details, Please Contact :

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FIE, FAPAS, FIIM, FAeSI, FAPAM, FInSIA  
Outstanding Scientist / Sc. H and Director, DMSRDE  
Chairman, Organising Committee
- Dr. Ashish Dubey**  
Scientist E & OSD to the Director  
Convener, AMMTPS - 2019

## Defence Materials and Stores R&D Establishment (DMSRDE)

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