



INDIAN INSTITUTE OF TECHNOLOGY  
KANPUR



DEPARTMENT OF AEROSPACE ENGINEERING

## Research Scholars' Day

APRIL 14 - 15, 2017

OUTREACH AUDITORIUM &  
PBCEC LECTURE ROOM

### INVITED SPEAKERS

1. DR. V.K. SARASWAT, MEMBER, NITI AAYOG, GOVERNMENT OF INDIA
2. DR. RAJAN, DIRECTOR, ARDE
3. MR. MURTHY, DIRECTOR, HEMRL
4. MR. ARUN RAMCHANDANI, VICE PRESIDENT, L&T
5. DR. P.N. DWIVEDI, DRDO, IITK ALUMNUS
6. PROF. RAGHUNANDAN, IISc, BENGALURU
7. DR. D. CHAKRABORTY, ADRDE
8. DR. G.G. DUTTA, DIRECTOR, J.C. BOSE CENTRE FOR ADV. TECH.
9. DR. R.K. MISHRA, DEPUTY DIRECTOR, CEMILAC

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**Schedule for the Research Scholars Day (April 14 - 15, 2017)**  
**Department of Aerospace Engineering, IIT Kanpur**

**Date: April 14, 2017 (Friday)**

**Theme of the Talks: Futuristic Technology**

**Venue: Outreach Auditorium, IIT Kanpur**

**Registration and Inaugural Ceremony Details**

2:30pm – 3:00pm	Registration for the Research Scholars Day.
3:00pm – 3:02pm	Welcome speech.
3:02pm – 3:10pm	Address by the Head, AE.
3:10pm – 3:20pm	Address by the Director, IIT Kanpur.
3:20pm – 3:30pm	Vote of thanks.

**Main Program: Schedule of the Talks by the Dignitaries on “Futuristic Technology”**

3:30pm – 4:00pm	Keynote lecture by Dr. Rajan, Director, ARDE.
4:00pm – 4:20pm	Invited talk by Mr. Murthy, Director, HEMRL.
4:20pm – 4:40pm	Invited talk by Mr. Arun Ramchandani, Vice President, L&T
4:40pm – 5:00pm	High Tea.
5:00pm – 5:20pm	Invited talk by Dr. P.N. Dwivedi, DRDO, IITK Alumnus.
5:20pm – 5:40pm	Invited talk by Prof. Raghunandan, IISc, Bengaluru.
5:40pm – 6:00pm	Invited talk by Dr. D. Chakraborty, ADRDE.
6:00pm – 6:20pm	Invited talk by Dr. G.G. Dutta, Director, J.C. Bose Centre for Advanced Technology.
7:30pm – 9:00pm	Interaction session of Aerospace Faculty Members with the Dignitaries (Venue: New Dining Room, VH).

**Date: April 15, 2017 (Saturday)**

**Theme of the Talks: Research and Research Scholars - Ignited Minds**

**Venue: Outreach Auditorium, PBCEC Classrooms, IIT Kanpur**

9:00am – 9:10am	Welcome speech by the Director, IIT Kanpur. (Venue: Outreach Auditorium).
9:10am – 9:30am	Invited talk by Dr. R.K. Mishra, Deputy Director, CEMILAC. (Venue: Outreach Auditorium).
9:30am – 10:00am	High Tea (Venue: Outreach lawn).
10:00am – 12:30pm	Talks by students at the PBCEC Classroom-01. Total talks = 12 (Each talk=10+2 minutes).
	Talks by students at the PBCEC Classroom-02. Total talks = 12 (Each talk=10+2 minutes).
12:30pm – 2:00pm	Lunch break (Venue: Outreach Lawn)
2:00pm – 2:30pm	Keynote lecture by Dr. V.K. Saraswat, Member, NITI Aayog, Government of India. (Venue: Outreach Auditorium).
2:35 pm – 4:55pm	Talks by students at PBCEC Classroom-01. Total talks = 11 (Each talk=10+2 minutes).
	Talks by students at PBCEC Classroom-02. Total talks = 11 (Each talk=10+2 minutes).
4:55pm – 5:10pm	Tea break (Outreach lawn).
5:10pm – 6:00pm	Panel Discussion (Venue: Outreach Auditorium).
6:00pm – 6:10pm	Closure and vote of thanks (Venue: Outreach Auditorium).
8:00pm – 9:30pm	Dinner (Venue: Outreach lawn).



Dr. V.K. Saraswat  
*Member, NITI Aayog, Government of  
India*

**Dr. Saraswat** is an Indian scientist who formerly served as the Director General of the Defence Research and Development Organisation (DRDO) and the Chief Scientific Advisor to the Indian Minister of Defence. He is presently Member of NITI Aayog i.e. Planning Commission of India.

Saraswat is the key scientist in the development of the Prithvi missile and its induction in the Indian armed forces. He is a recipient of the Padma Shri from the Government of India.



Mr. KPS Murthy  
*Director, HEMRL*

**Mr. Murthy**, Director of HEMRL, an acclaimed warhead technologist has made significant contributions in design and development of Missile & Rocket warhead systems, Safety Arming Mechanisms, MBT Munitions and Aircraft delivered Bombs.

His outstanding contributions towards defence Science & Technology has earned him numerous awards & honours including DRDO Scientist of the Year, DRDO AGNI Award for Excellence in Self Reliance, Dr Biren Roy Award from Aeronautical Society of India (AeSI), DRDO Award for Path Breaking / Outstanding Technology Development and Integrated Guided Missile Development Programme (IGMDP) award.



Dr. P.N. Dwivedi  
*DRDO, IITK Alumnus*

**Dr. Dwivedi** has completed his B-tech from IIT, KANPUR in 2004 in Aerospace. He is the youngest scientist to become scientist 'E' at the age of 31 year with two consecutive super outstanding promotions. First time in India any missile (AAD) has flown with nonlinear controller designed by him. For his contribution towards AAD missile, he is awarded by Agni excellence Award 2007 and DRDO young scientist award in 2009. He has around 45 national and international paper based on his work.



Mr. Arun Ramchandani  
*Vice-President, L&T Ltd., Mumbai*

**Mr. Ramchandani** has been directly involved in the innovation application of engineering for realization of first of its kind defence system. He has been a prolific developer of high technology indigenous products, many of which would fall under international technology denial regime. His significant achievement include development of the underwater weapon launch systems, Indigenous Naval Weapon Systems, development and application of stabilization technology for Naval Weapons, Sensors & Platforms.



Prof. B.N. Raghunandan  
*Indian Institute of Science, Bengaluru*

**Prof. Raghunandan** has taught several courses at Post graduate level in the field of Aerospace Propulsion, Aerospace design, Launch Vehicles and so on, Guided nearly eighty Graduate students for their dissertations/theses (ME, MSc(Engg.) by research, PhD), Published about 70 articles in International Journals and nearly 200 papers in Conferences, Served in many important positions such as Chairman, Department of Aerospace Engg., Divisional Chairman of Earth and Environmental Sciences, Dean of Faculty of Engineering (all at Indian Institute of Science).





Dr. Debasis Chakraborty  
*Technology Director, DRDL, DRDO,  
Hyderabad*

**Dr. Chakraborty** has worked 29 years in Vikram Sarabhai Space Center, ISRO and Defence Research and Development laboratory, DRDO on various practical aerodynamic and propulsion problems related to sounding rockets, satellite launch vehicles, strategic and tactical missiles. Computational Fluid Dynamics (CFD) was used as a tool in solving many design problems.



Dr. K.M. Rajan  
*Director, ARDE*

**Dr. Rajan** has 32 years of rich experience in the design and development of various Armament systems, particularly Artillery Rockets. He has international recognition for his work in the area of Flow Forming of Rocket Motors and is a well known Rocket Propulsion expert, with publication of more than 70 research papers in peer reviewed international journals & conferences. Dr. Rajan has been felicitated with DRDO Performance Excellence Award, Lab Technology Group Award, HEMSI Silver Jubilee Award, Scientist of the year Award 2011 and AeSI Dr. Biren Roy Trust Award, to name a few.



Dr. R.K. Mishra  
*Deputy Director, CEMILAC*

**Dr. Mishra** has been working on Gas turbine engines for 26 years in the field of performance evaluation of gas turbines; design and aero-thermal testing of combustion chambers and afterburners; defect/accident investigation of military engines; qualification of engines for fighter aircrafts and UAVs. He has published 81 papers in international journals and conferences. He is a member of ARDB propulsion Panel and a member of executive board, GATET initiative of DRDO.