



INDIA INTERNATIONAL SCIENCE FESTIVAL 2017

October 13-16, 2017

**Venue :
Anna University, IIT Madras, NIOT,
CSIR-CLRI, CSIR-SERC**

Program Guide

Organiser



सत्यमेव जयते

Ministry of Science & Technology

Organiser



सत्यमेव जयते

Ministry of Earth Sciences

Organiser



Government of Tamil Nadu

Organiser



विज्ञान भारती

Vijnana Bharati

Organiser



NIOT

Organiser



CSIR

STEERING COMMITTEE

CHIEF PATRON : Dr. Harsh Vardhan

Hon'ble Union Minister of Science and Technology,
Ministry of Earth Sciences and Ministry of Environment Forests
and Climate Change
Govt. of India

PATRON : Shri Y. S. Chowdary

Hon'ble Union Minister of State for Science and Technology
and Ministry of Earth Sciences, Govt. of India

CHAIR : Dr. M. Rajeevan

Secretary, Ministry of Earth Sciences

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Secretary, DST

Dr. Trilochan Mohapatra
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Secretary, DBT

Dr. Satheesh C. Shenoil
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Shri A Jayakumar
Secretary General, VIBHA

Dr. Sekhar Basu
Chairman, DAE

CONVENERS

Dr. S Christopher
Chairman, DRDO

Dr. Gopal Iyengar
Scientist-G, Ministry of Earth Sciences

Shri Ajay Narayan Jha
Secretary, MoEF & CC

Dr. M.A. Atmanand
Former Director, NIOT

Shri Dinesh Singh
Secretary, Ministry of Rural Development

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Secretary, MNRE

Dr. Asheesh Shah
Senior Consultant, MoES

Dr. Soumya Swaminathan
Director General, ICMR

Shri Praveen Ramdas
Secretary, VIBHA

डॉ. हर्ष वर्धन
DR. HARSH VARDHAN



मन्त्री
विज्ञान और प्रौद्योगिकी एवं पृथ्वी विज्ञान
भारत सरकार
नई दिल्ली - 110001

MINISTER
SCIENCE & TECHNOLOGY AND EARTH SCIENCES
GOVERNMENT OF INDIA
NEW DELHI - 110001

MESSAGE

Twenty first century will be the century of knowledge. Only those nations will survive and succeed, which will build them by understanding the dynamics of knowledge and create true knowledge societies. Our nation has been enriched over the ages by great thinkers who have always taken an integrated view of life as a fusion of mind, body and intellect. Their vision of knowledge has blossomed in the form of many spiritual centers and epics. In recent years India has successfully made transition to a Knowledge Economy. India is well placed at the dawn of the Knowledge era. The real capital of our nation's knowledge society will be provided by its knowledge workers through "Responsible Innovation", who will have the capacity to create, explicit and tacit knowledge rich products.

We are a government that believes and supports in scientific research new innovations for the masses in the larger framework of the society. However, the Science, Technology and Innovation face numerous challenges in the Global Innovation era. At the same time this innovation era also elevating new partnerships and opportunities for the stakeholders. The knowledge community will be highly networked to create an intensive environment along with enabling process to share, exploit and protect knowledge. Hence, the meeting of innovation minds is thus necessary and a plat form for this purpose is required to be setup.

The India International Science Festival (IISF) has created a platform, which is the integral part of India's path to create an innovative knowledge society. Previously, the festival was organized twice in 2015 and 2016 respectively which were a grand success. This splendid success has set a unique example of holding an inimitable festival of science for serving the nation. The IISF 2017, therefore, aims to communicate Science and Technology to the masses and search for their partnership in deploying it.

I appreciate the joint efforts of the Ministries of Science & Technology and Earth Sciences together with Vijnana Bharathi in organizing the third edition of IISF.

I invite IIT Madras, Anna University and all other academic as well as R&D institutions in Chennai to involve in organising IISF 2017 for make it a historic event.

I extend a very warm welcome to all dignitaries, from India and abroad and request you to make this event a grand success.

With Best Wishes,


(Dr. Harsh Vardhan)

वाई एस चौदरी
Y S CHOWDARY



राज्य मंत्री
विज्ञान और प्रौद्योगिकी एवं पृथ्वी विज्ञान
भारत सरकार
नई दिल्ली - 110003
MINISTER OF STATE FOR
SCIENCE & TECHNOLOGY AND EARTH SCIENCES
GOVERNMENT OF INDIA
NEW DELHI - 110003

MESSAGE

Historically, civilizations have been weighing success in terms of outcomes. But we tend to forget that, if the consequential outcomes are to be judged, it is desirable that the antecedent events and commitments therefor are also judged in right perspective. If we look back and see, ever since independence and prior to that, India has achieved a lot in the field of Science & Technology with too little of resources actually committed. Had we have done better ? That is totally a different argument.

Let bygones be bygones ! The future of Indian science depends on how well we make it a way of life and how quickly we make Science & Technology a way of business and livelihood. Therefore, propagating science in the youth and amongst the children assumes lot of significance. The ideas of innovation, creativity and scientific temper have to be propagated and children have to be attracted towards Science, Technology, Engineering and Mathematics (STEM) at a right and impressionable age.

India International Science Festival (IISF) has created a platform, which is an integral part of India's march to create an innovative society and in spreading scientific awareness amongst common public and children/youth. IISFs organized in 2015 at IIT-Delhi and 2016 in CSIR-NPL, Delhi have drawn lot of public attention. Many children from all corners of the country have participated in them.

It is heartening to learn that the 'Neighbouring Countries Science & Technology Ministers Meet' would be held as a part of India International Science Festival (IISF-2017). India's ambition for regional cooperation and prosperity now has a 'Scientific Touch'!

I wish IISF-2017 and its organizers all the best.

New Delhi
05.07.2017

[Y S Chowdary]



SCHEDULE

INDIA INTERNATIONAL SCIENCE FESTIVAL (IISF) – 2017

October 13-16, 2017

PROGRAM SCHEDULE

	09:30 – 11:00	11:30 – 13:00	14:00 – 15:30	15:30 – 18:00	18:30 onwards
October 13, 2017	Inauguration of IISF-2017		S&T Ministers Conclave SYPOG (PS-1) Student Innovator Contest Science Village Mega Expo Grassroots Innovators Summit Inauguration of Mass Communication	S&T Ministers Conclave SYPOG (PS-2) Student Innovator Contest Science Village Mega Expo Grassroots Innovators Summit Mass Communication	Cultural Program
October 14, 2017	SYPOG (P-1) Student Innovator Contest Science Village Mega Expo Grassroots Innovators Summit Mass Communication Gunnies World Record Program National Science Teacher's Workshop Inauguration of Industry Academia Interaction Meet	SYPOG (P-2) Student Innovator Contest Science Village Grassroots Innovators Summit Mass Communication Gunnies World Record Program National Science Teacher's Workshop Industry Academia Interaction Meet Science Film Festival	SYPOG (TS-1) Student Innovator Contest Science Village Mega Expo Grassroots Innovators Summit Mass Communication National Science Teacher's Workshop Industry Academia Interaction Meet Science Film Festival	SYPOG (TS-2) Student Innovator Contest Science Village Mega Expo Grassroots Innovators Summit Mass Communication National Science Teacher's Workshop Industry Academia Interaction Meet Science Film Festival	Start-up Summit NSOIM

INDIA INTERNATIONAL SCIENCE FESTIVAL (IISF) – 2017

October 13-16, 2017

PROGRAM SCHEDULE

	09:30 – 11:00	11:30 – 13:00	14:00 – 15:30	15:30 – 18:00	18:30 onwards
October 15, 2017	SYPOG (PS-3) Student Innovator Contest Science Village Mega Expo Grassroots Innovators Summit National Science Teacher's Workshop Industry Academia Interaction Meet Science Film Festival Start-up Summit NSOIM Inauguration of WSE National level Competition	SYPOG (PS-4) Student Innovator Contest Science Village Mega Expo Grassroots Innovators Summit National Science Teacher's Workshop Industry Academia Interaction Meet Science Film Festival Start-up Summit NSOIM WSE National level Competition	SYPOG (PS-5) Student Innovator Contest Science Village Mega Expo Grassroots Innovators Summit National Science Teacher's Workshop Industry Academia Interaction Meet Science Film Festival Start-up Summit NSOIM WSE National level Competition	SYPOG (TS-3) Student Innovator Contest Science Village Mega Expo Grassroots Innovators Summit National Science Teacher's Workshop Industry Academia Interaction Meet Science Film Festival Start-up Summit NSOIM Start-up Summit WSE	Cultural Program
October 16, 2017	SYPOG (TS-4) Student Innovator Contest Science Village Mega Expo Grassroots Innovators Summit Science Film Festival WSE Deep Ocean Research	SYPOG (P-3) Student Innovator Contest Science Village Mega Expo Grassroots Innovators Summit Science Film Festival WSE	Closing Ceremony (15 : 30 - 17:00) PS – Plenary Session P – Poster Presentation TS – Theme Session NSOIM – National Social Organizations & Institutions Meet WSE - Women Scientists & Entrepreneur		



SCIENCE & TECHNOLOGY MINISTERS CONCLAVE

October 13, 2017

Venue: IC&SR Auditorium, IIT Madras

Co-ordinators:

Dr. Arabinda Mitra

Ph. No.: +91 11-26961912

Dr. R Venkatesan, NIOT

Ph. No.: +91-9444399829

SCIENCE & TECHNOLOGY MINISTERS CONCLAVE

October 13, 2017

The Scientific departments and Ministries of the Government of India have active international collaboration in science and technology both at the bilateral and regional level. India is engaged in R&D cooperation with more than 44 countries across the globe including advanced, emerging and developing nations.

As a part of our foreign policy initiatives of the government like “Neighbours First”, “Act East”, and “India-Africa Partnership”, we have embarked upon a path of developmental diplomacy using science, technology and innovation that will not only help towards capacity building in R&D but also address the needs of the people through the application of science technology and innovation.

The challenges faced by the people and society in India and its neighborhood and the developing countries are very similar. These challenges are not defined by geopolitical boundaries. With limited availability of resources, expertise and infrastructure the common issues of food, energy, health, and water security can be best addressed collectively through the application of science and technology.

The purpose of the S&T Ministers Conclave is to build and strengthen a partnership both at bilateral and regional level by identifying the priorities, needs, and mechanisms that will enable a fruitful cooperation through sharing and complementing each other’s strength and resources. The Conclave provide an opportunity to exchange the scientific and technological priorities of the participating countries that can help to develop a roadmap for S&T cooperation. This roadmap can be used by all the S&T Departments to engage proactively with each of these countries. The focus will be on capacity building through mechanisms such as fellowships, internships, twinning, training, data sharing, joint projects and technology transfer. Co-develop and deploy affordable and innovative technologies that provide solution to societal problems will also be a common agenda for the Conclave.

Science & Technology Ministers Conclave

October 13, 2017(14:30-16:30 Hrs)

Venue: IC&SR Auditorium, IIT Madras

1. Welcome Remarks by Hon’ble Minister for Science & Technology and Earth Sciences, Govt. of India
2. Lighting of lamps by Guests
3. S&T Priorities and Challenges of Afghanistan (Tbc)
4. S&T Priorities and Challenges of Bangladesh
5. S&T Priorities and Challenges of Bhutan (Tbc)
6. S&T priorities and Challenges of India by Hon’ble Minister of State for Science & Technology and Earth Sciences, Govt. of India
7. S&T Priorities and Challenges of Myanmar (Tbc)
8. S&T Priorities and Challenges of Nepal
9. S&T Priorities and Challenges of Portugal
10. Concluding Remarks by Hon’ble Minister of S&T and ES
11. Honoring hon’ble guests with Mementoes
12. Vote of thanks by Secretary, DST



SENSITIZING YOUTH TO FLAGSHIP PROGRAMS OF GOVERNMENT (SYPOG)

**October 13-16, 2017
Venue: Anna University Ground**

Co-ordinators:

Dr. Sachin Mandavgane
Ph. No.: +91-9823246329

Mr. D. Rajasekhar
Ph. No.: +91-9444399835

SENSITIZING YOUTH TO FLAGSHIP PROGRAMS OF GOVERNMENT (SYPOG)

October 13-16, 2017

Young people are the innovators, creators, builders and leaders for any nation and they can only transform the future of India. SYPOG is an effort to share with the youth about Government's policies and successes stories related to national flagship programs like Swachh Bharat, Make in India, Digital India, Climate Change and Swasth Bharat. SYPOG is an opportunity for young scientists, scholars and faculties from all over the country to showcase their innovations and scientific contributions to the mentioned National Programmes.

This meet is primarily meant for the scientists/ researchers/ science innovators/professional students below the age of 45 years. Delegates will be nominated by their respective Universities, Institutes and Labs. The nominated delegates will have to register through the website of IISF-2017 at free of cost. The selected delegates will be invited by the organising committee.

This programme consists of plenary sessions on National Flagship Programmes by the distinguished scientists and experts followed by interactive session.

Themes of the sessions and presentation:

- Swachh Bharat
- Make in India
- Digital India
- Swasth Bharat
- Biodiversity & Environment

Workshops on the following topics will be organized:

- Writing a research paper
- Protecting intellectual property (IPR)
- Converting an idea into a start-up
- Drafting research proposal

This event will also provide an opportunity for researchers to present their work in the mentioned theme in the form of a poster. The best exhibits will be awarded.

PROGRAM SCHEDULE FOR SYPOG

Date	09:30 AM-11:00 AM	11:30 AM-01:00 PM	02:00 PM-03:30 PM	04:00 PM-05:30 PM
Oct-13	L U N C H			
Oct-14	Inaugural Function Main Hall	Poster Theme:Swasth Bharat Digital India Swachh Bharat Venue : Central Workshop (Anna University)	Plenary Session Theme:Swachh Bharat Vivekananda Hall, Anna Univ. Theme Sessions Swachh Bharat (Hall 1) Digital India (Hall 2) Swasth Bharat (Hall 3) Make in India (Hall 4) Workshop (Hall 5) Venue : Concrete Ground,AU	Plenary Session Theme: Digital India Vivekananda Hall, Anna Univ. Theme Sessions Swachh Bharat (Hall 1) Digital India (Hall 2) Swasth Bharat (Hall 3) Make in India (Hall 4) Workshop (Hall 5) Venue : Concrete Ground,AU
Oct-15	Plenary Session Theme: Bio Diversity Main Hall	Plenary Session Theme: Swasth Bharat Main Hall	Plenary Session Theme: Make in India Main Hall	Theme Sessions Swachh Bharat (Hall 1) Digital India (Hall 2) Bio Diversity (Hall 3) Make in India (Hall 4) Workshop (Hall 5) Venue : Concrete Ground,AU
Oct-16	Theme Sessions Swachh Bharat (Hall 1) Digital India (Hall 2) Swasth Bharat (Hall 3) Make in India (Hall 4) Workshop (Hall 5) Venue:Concrete Ground,AU	Poster Theme: Make in India Bio diversity and Environment Venue : Central Workshop, AU	Valedictory Main Hall	

PROGRAM SCHEDULE FOR SWACHH BHARAT

Co ordinator -Dr. Krishna Kanth Pulicherla DST

Date	09:30 AM-11:00 AM	11:30 AM-01:00 PM	02:00 PM-03:30 PM	04:00 PM-05-30 PM
Oct-13	Inaugural Function (Main hall)	<p style="text-align: center;">L U N C H B R E A K</p>		
			Plenary Session Theme : Swachh Bharat, Venue : Vivekananda Hall Dr. K. Vijay Raghavan* Secretary, DBT Min. of S & T, Govt. of India	
			Shri Saurabh Jain, IAS* Dir. & Addl. Mission Dir. Swachh Bharat Mission Min. of UD, Gol	
			Shri. U.P. Singh* Additional Secretary and DG National Mission on Clean Ganga	
			Prof. G.D. Yadav VC, ICT Mumbai Dr. S.K. Nayak Director General, C-PET, Chennai	
Oct-14	Poster Theme : Swachh Bharat Venue : Central Workshop Anna University		Theme Sessions E-Waste (Hall 1) Dr. Sandip Chatterjee Director, OSD to Secretary, MeitY, Gol	Theme Sessions WM-BT (Hall 1) Dr. Sangita M Kasture Joint Director / Scientist 'E', DBT, MoST, Gol Dr. E.K.Girija, Assistant Professor, Department of Physics Periyar University, Salem 636 011 Tamil Nadu

Date	09:30 AM-11:00 AM	11:30 AM-01:00 PM	02:00 PM-03:30 PM	04:00 PM-05:30 PM
			<p>Dr. Smita Mohanty Sr. Scientist & In-charge, LARPM, CIPET Bhubaneswar, Odhisha</p>	<p>Dr. BK. Sanfui Asst. Prof. of Ceramic Technology Department of Ceramic Technology Govt. College of Engineering and Ceramic Technology, Kolkata</p>
			<p>Dr. ABHILASH, Scientist/Asst Professor, CSIR-NML Jamshedpur, Jharkhand</p>	<p>Dr. K.Mohanasundaram Professor & Dean Research Department of EEE Vel tech Multitech Dr.Rangarajan Dr. Sakunthala Engineering college, Avadi, Chennai</p>
			<p>Dr. P. Thirumal Associate Professor & Head Dept. of Mechanical Engineering, Govt. College of Engineering, Bargur, Krishnagiri (Dt), TN</p>	<p>Sh. Mainak Chakraborty CEO, GPS Renewables Member, Technical Committee, Integrated Bioenergy Mission, Govt of India</p>
			<p>Dr. P. Parthasarathy E-Parisaraa Pvt. Ltd., No.30-P3, Karnataka Ind. Area Development Board, Dobaspet Industrial Area, Bangalore</p>	
Oct-15				<p>Theme Session Industrial H/NH (Hall 1) Dr. Suneel Pandey Dir., Environment and Waste Management Div., TERI, New Delhi</p>
				<p>Dr. T. Subbaiah, Former Chief Scientist (CSIR-IMMT) & Professor (AcSIR) Advisor (R&D) K.L. University Guntur (Dt) A.P.</p>

L U N C H B R E A K

Date	09:30 AM-11:00 AM	11:30 AM-01:00 PM	02:00 PM-03:30 PM	04:00 PM-05:30 PM
				Dr. V.E. Annamalai Professor & Head Dept of Mechengg, SSN Collage of Engg, Chennai
				Dr. Prathish K.P., Scientist, NIIST Pappanamcode, Thiruvananthapuram – 695019,
Oct-16	<p>Theme Sessions MSW/P/CD (Hall 1)</p> <p>Dr. Dali Naidu Arnepalli Dept. of Civil Engg. IIT Madras,</p> <p>Er. Hiren D Raval, Scientist (CSMCRI) Bhavnagar, Gujarat.</p> <p>Dr. Madhu Ganesh Prof. Dept. of Mechanical Engg. PSG College of Technology, TN</p> <p>Dr. A.Gangagni Rao CSIR-IICT Tarnaka, Hyderabad</p> <p>Dr. J. T. Shahu, Professor Department of Civil Engineering IIT (IIT-D) Delhi.</p>	<p>Theme Sessions MSW/P/CD (Hall 1)</p> <p>Dr. Sayaji Mehetre Nuclear Agriculture & Biotechnology Division Mumbai</p> <p>Dr. Gagan Matta Asst.Prof. Gunkula Kangri University, Uttarakhand</p> <p>Dr. Vasudevan, Dean of Science Thiagaraja College of Engg. TN</p> <p>Dr. Babu Rajendran Registrar, Dean & Head HD University, Trichy</p> <p>Dr. Ravi, Dean & Head Madras Medical College, Chennai</p>	L U N C H B R E A K	<p>Dr. P. Asokan Sr. Principal Scientist Advanced Materials and Processes Research Institute (CSIR-AMPRI)</p> <p style="text-align: right;">Valedictory</p>

PROGRAM SCHEDULE FOR DIGITAL INDIA

Coordinator – **Dr. Murali Mohan**, Scientists, DST

Date	09:30 AM-11:00 AM	11:30 AM-01:00 PM	02:00 PM-03:30 PM	04:00 PM-05-30 PM
Oct-13	Inaugural Function			Plenary Session Theme: Digital India (Vivekananda hall)
				Prof L M Patnaik, IAS, B'lore Prof Santanu Choudhury Director, CEERI, Pilani Prof Arun Kumar Pati, HRI, Allahabad Prof S M Ramaswamy* Alagappa University, Karaikudi
Oct-14	Poster Theme : Digital India Venue : Central Workshop, Anna University		Theme Sessions Theme: IoT (Hall 2)	Theme Sessions Theme: Machine Learning & AI (Hall 2)
			Prof U B Desai,* Director, IIT, Hyderabad	Prof P J Narayanan Director, IIIT, Hyderabad
			Prof V K Mittal,* IIT, Chittoor	Dr Mitesh Khapra IIT, Madras
			Dr T S Narayanan, IIIT, Kanchipuram	Dr Sutanu Chakraborti IIT, Madras
			Dr Shunmugham R Pandian, IIIT, Kanchipuram	Dr Sundara R Nagalingam* NVIDIA Graphics Pvt. Ltd., B'lore

L U N C H B R E A K

Date	09:30 AM-11:00 AM	11:30 AM-01:00 PM	02:00 PM-03:30 PM	04:00 PM-05:30 PM
Oct-15				Theme Sessions Theme: Cyber Security (Hall 2)
				Prof. Kamakoti V, IIT - Madras
				Prof. G.Kousalya, CIT, Coimbatore
				Dr. Venkatesh Moorthy, Data Security Council of India
				Dr. H.R. Mohan, Vice-Chairman, IEEE, Chennai
Oct-16	Theme Sessions Theme: Data Science (Hall 2)			
	Prof. Ashish Gosh ISI, Kolkata			
	Dr. Amitava Das*, IIIT - Chittoor			
	Dr. T S Narayanan, IIIT - Kanchipuram		Valedictory	

L U N C H B R E A K

PROGRAM SCHEDULE FOR SWASTHA BHARAT

Co ordinator - Dr. Mrs. Neeraj Tandon, ICMR, New Delhi.

Date	09:30 AM-11:00 AM	11:30 AM-01:00 PM	02:00 PM-03:30 PM	04:00 PM-05:30 PM
Oct-13	Inaugural Function			
Oct-14	Poster Theme : Swasth Bharat Venue : Central Workshop Anna University		Theme Sessions Swasth Bharat (Hall 3) Dr. Sanjay M. Mehendale (Public health) Dr. V. V. Banu Rekha (Disabilities) Dr. S. Sriram (Diseases targeted for elimination) Dr. P. Manickam (Health problems in disasters)	
Oct-15	Plenary Session Theme: Swasth Bharat, Main Hall			
	Dr. Soumya Swaminathan, Secretary, DHR & DG, ICMR (How research can contribute to better health)			
	Dr.Srinivasan Raghunathanan (Diabetes the silent killer)			
	Dr. S.P. Thyagarajan (Emerging and reemerging infections)			
	Dr. Seema Sahay (Adolescent health)			

L U N C H B R E A K

Date	09:30 AM-11:00 AM	11:30 AM-01:00 PM	L U N C H B R E A K	02:00 PM-03:30 PM	04:00 PM-05:30 PM
Oct-16	Theme Sessions Swasth Bharat (Hall 3)				
	Dr. Rakhil Gaitonde (New National Health Policy 2017)				
	Dr. N. Kumaraswamy (HIV and STD)				
	Dr. Anjana Mohan (Growing problems of NCDs in India)				
	Dr. R. Thara (Adolescent mental health)				
	Dr. Indumathi Nambi (Antimicrobial resistance)				

Valedictory

PROGRAM SCHEDULE FOR MAKE IN INDIA

Coordinator - Shri Shilendra Jaiswal, Ministry of Railways

Date	09:30 AM-11:00 AM	11:30 AM-01:00 PM	02:00 PM-03:30 PM	04:00 PM-05-30 PM
Oct-13	Inaugural Function			
Oct-14			Theme Sessions (Knowledge based Industry) Make in India (Hall 4) Rahul Sharma*, Co-Founder & CEO, Micromax Informatics Ltd. Alok Nath De, CTO, Samsung India Pravin Bhagwat, CTO and Co-Founder, Mojo Networks Representative from Microsoft Corp. India (P) Ltd*	Theme Sessions (Textile, FMCG & Leather) Make in India (Hall 4) Dr. Roopak Vasistha, CEO & MD, AMHSSC Priya Thapar, Director, Strategic Business Development, JCT Ltd. Baba Ramdev,* Patanjali Representative from Academia
L U N C H B R E A K				
Oct-15			Plenary Session Theme: Make in India, Main Hall Shri Suresh Prabhakar Prabhu Hon'ble Minister for Commerce & Industry,	Theme Sessions (Defence, Infrastruct. & Automotive) Make in India (Hall 4) Dr. V. Natarajan, Director (Res. & Innovation Centre), DRDO Mr. D. K. Venkatesh,* Director (Engg. & HRD), HAL
			Shri Ashwini Lohani Chairman, Railway Board	

Date	09:30 AM-11:00 AM	11:30 AM-01:00 PM	02:00 PM-03:30 PM	04:00 PM-05:30 PM
			Madhu S. Nair, Chairman, Cochin Shipyard	Shri Kannan Lakshminarayan
			Dr. S. Christopher, Chairman, DRDL	Shri. S.V. Davey
			Rajesh Rathi, President, Control Infotech Pvt. Ltd..	Shailendra Singh, AVP,* Maruti Suzuki India Ltd., Gurugram
			Shri. Shilendra Jaiswal Ministry of Railways	Ashish Srivastava Head, Sustainability and CSR, Corporate Communication Magnetti and Marelli Representative from BEML *
16th Oct' 2017	Theme Sessions (Process, Manufacturing & Electrical) Make in India (Hall 4)	Poster Theme : Make In India	L U N C H	
	Kunwar Sachdev, Founder & MD., Su-kam Power Systems Ltd.		B R E A K	
	Sharmila Devadoss, MD. Medlotek Health Systems		Valedictory	
	Aseem Kaushik,* Director L'Oreal Pvt. Ltd. Representative from Academia			
	Dr. Pratul Chandra, Founder, Koinearth & Prof. infosafe			

PROGRAM SCHEDULE FOR BIODIVERSITY

Co ordinator -Dr (Ms) Meena Kumari, Chairperson, NBA, Chennai

Date	09:30 AM-11:00 AM	11:30 AM-01:00 PM	02:00 PM-03:30 PM	04:00 PM-05-30 PM
Oct-13		Inaugural Function		
Oct-14				
Oct-15	Plenary Session Theme: Bio Diversity, Main Hall			Theme Sessions Bio Diversity (Hall 5)
	Prof. M. S. Swaminathan / Smt. Amarjeet Ahuja, IAS (retd.)			Dr. Rai S Rana, Chairman, Bio-links, Former Director of the National Bureau of Plant Genetic Resources, New Delhi
	Dr. B. Meenakumari Chairperson, NBA, Chennai.			Dr. Sujata Arora, Adviser, MOEFCC, New Delhi
	Prof M.K.Ramesh National Law School of India University, Bangalore.			Dr. Prof. Sairam Bhat
	Shri. Darshan Shankar Trans-Disciplinary University, Bangalore			Dr. Oommen V Oommen ,Chairman, Kerala State Biodiversity Board, Thiruvananthapuram.
Oct-16		Poster : Theme: Bio diversity and Environment		Valedictory

L U N C H B R E A K

WORKSHOP

Co ordinator - **Dr. P Muthuvel**, Scientist, NIOT, Chennai

Date	09:30 AM-11:00 AM	11:30 AM-01:00 PM	02:00 PM-03:30 PM	04:00 PM-05:30 PM
Oct-13	Inaugural Function			
Oct-14			How to write a Research Paper Prof. M.S. Shanmugam, Emeritus Prof. IIT - Madras Venue : Hall 5, Anna University	How to file patent and protect IPR Dr. Raj Hirwani, Former Director, CSIR- URDIP Venue : Hall 5, Anna University
Oct-15				Converting Ideas into Startup Dr. Raj Hirwani Former Director, CSIR- URDIP Venue : Hall 5, Anna University
Oct-16	How to draft a research proposal Akhilesh Mishra Dr. Pramod Dr. Anita Agrawal (Scientist DST) Venue : Hall 5, Anna University			Valedictory

L U N C H B R E A K



Special Session

India International Science Festival (IISF) 2017

Sensitizing Youth to Flagship Programs of Government (SYPOG)

Centre for Aerospace Research, Anna University

Promoting

Dr. Kalam's Vision on Self Reliance in UAV for Societal Applications

Keynote Address

by

**Lt Gen (Dr) VJ Sundaram, PVSM, AVSM, VSM
Former Director RCI& DRDL Hyderabad
Advisor (Micro and Nano Systems)
National Design and Research Forum
The Institution of Engineers (India)
On**

Youth Awakening Day : 15th October (Dr. APJ Abdul Kalam's Birthday)

At 15 30 Hrs.

Venue

SYPOG HALL

College of Engineering Guindy Campus, Anna University



BIODIVERSITY & ENVIRONMENT

October 15, 2017
Venue: Anna University Ground

Co-ordinator:

Dr. B. Meenakumari,
Chairman, National Biodiversity Authority
Ph. No.: +91 9650934444

BIODIVERSITY & ENVIRONMENT

October 15, 2017

Protection of the environment and conservation of bio diversity and its sustainable management is the prime need of the hour. In the modern era, anthropogenic interaction modifies earth's environment in an irreversible manner. Pollution of the air, water and soil, massive deforestation, fragmentation of habitats, over-exploitation of resources, loss of biodiversity are major current environmental issues. India is one of the world's 'mega diversity' countries and has two of the 35 bio diversity hot spots. It is one of the 12 centers of origin of agriculture and represents about 8% of world's flora and fauna. Recently, anthropogenic factors such as population explosion, pollution, urbanization, industrialization etc. pose a great threat to the bio-resources in India. To conserve and preserve its rich bioresources, India is joining hand with international treaties and conventions, concerned with bio diversity conservation and India is a forerunner in framing and implementing bio diversity acts and rules.

Biological Diversity Act 2002

The Biological Diversity Act, 2002 is an act of the Parliament of India. Aimed to conserve the biological diversity of India, and provides mechanism for equitable sharing of benefits arising out of the use of traditional biological resources and knowledge. It was enacted to meet the obligations under Convention on Biological Diversity (CBD), to which India is a party. Bio diversity has been defined under Section 2(b) of the act as "the variability among living organisms from all sources and the ecological complexes of which they are part, and includes diversity within species or between species and of ecosystems". The act also defines biological resources as "plants, animals and micro-organisms or parts thereof their genetic material and by-products (excluding value added products) with actual or potential use or value, but does not include human genetic material". India is a forerunner in implementing bio diversity acts and rules for better conservation and sustainable management of its bio resources.

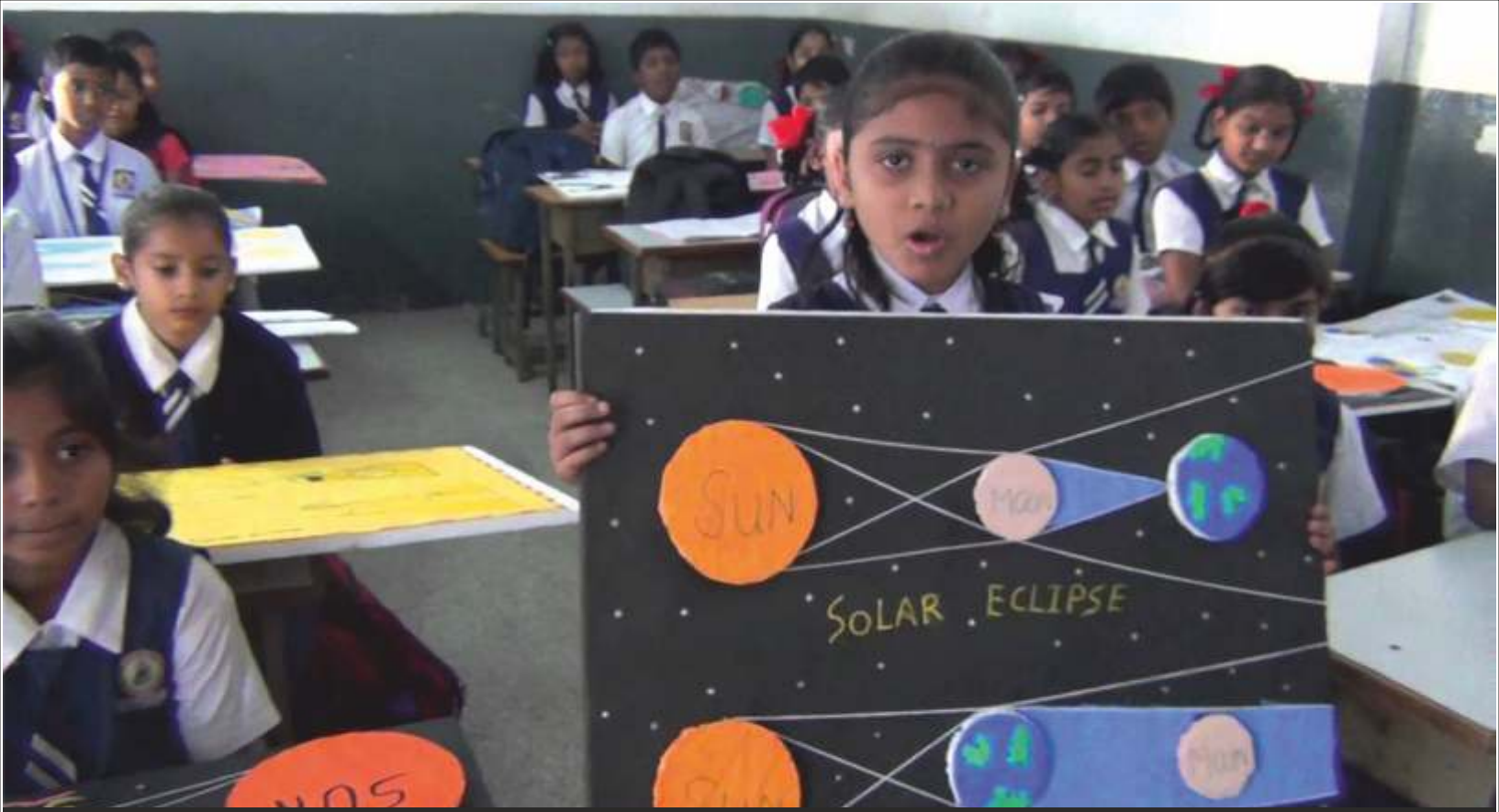
National Bio diversity Authority

To perform the facilitative, regulatory and advisory functions on matters related to bio diversity, a statutory body, National Biodiversity Authority (NBA) was formed by the government of India in 2003. The NBA with its headquarters in Chennai, Tamil Nadu, delivers its mandate through a structure that comprises of the Authority, Secretariat, SBBs, BMCs and Expert Committees. Since its establishment, NBA has supported creation of SBBs in 29 States and facilitated establishment of around 62,500 BMCs. NBA is coordinating the session on Bio diversity and Environment on the 15th October 2017 in two sessions, session 1 in the morning and session 2 in the afternoon

SESSION ON: BIODIVERSITY, BIOLOGICAL DIVERSITY ACT AND CONCERNS

15 October, 2017: Forenoon Session 0930 h (General Audience)

Day 2	
09:30-11.00	Inaugural Session
	<p>Chief Guest: Dr Mahesh Sharmaji, Hon'ble Minister of State Ministry of Environment forests and Climate change</p> <p>Chair Prof. M S Swaminathan, Founder, M S Swaminathan Research Foundation, Chennai The Biodiversity and Genesis of Biological Diversity Act of India.</p> <p>Shri. Darshan Shankar, Chancellor Trans-Disciplinary University, Bangalore Medicinal Plants and the associated Traditional Knowledge an important bio-cultural heritage of India</p> <p>Dr. (Ms) B. Meenakumari, Chairperson, National Biodiversity Authority Implementation of Biological Diversity Act, 2002 & Biological Diversity Rules, 2004 : Achievements, Initiatives & Challenges.</p> <p>Prof. M.K.Ramesh, National Law School of India University, Multilateral Environmental Agreements (MEAs): Adaptations under the Rio Conventions –mandates, programmes and results achieved.</p>
16:00-17:30	<p>Chair Shri Ajay Narayan Jha, IAS, Secretary, (MoEF&CC), Ministry of Environment, Forest and Climate Change,</p> <p>Smt. Amarjeet Ahuja, IAS (Retd.) Experiences of piloting the Biological Diversity Act of India</p> <p>Dr.R.S.Rana, Chairman, Bio-Link, New Delhi Access to Biological Resources and Benefit Sharing - A Governance Perspective.</p> <p>Dr. Sujata Arora, Adviser/Scientist 'G' Ministry of Environment, Forest and Climate Change, India's National Biodiversity Action Plan and its 12 National Biodiversity Targets.</p> <p>Dr. Oommen V. Oommen, Chairman Kerala State Biodiversity Board, Thiruvananthapuram Implementation of Biological Diversity Act, 2002 in India: Perspective from a State Biodiversity Board.</p> <p>Dr. A.G. Pandurangan, Director Jawaharlal Nehru Tropical Botanic Garden & Research Institute, Thiruvananthapuram Plant Biodiversity of India - Status and Trends</p> <p>Prof. Dr. Sairam Bhat , Coordinator for Centre for Environmental Law Education, Research Environmental Law in India - Implementation Challenges</p>



STUDENT INNOVATOR CONTEST

October 13-16, 2017
Venue: Anna University Ground

Co-ordinators:

Dr. Purnima Jalihal, NIOT
Ph. No.: +91 9444399824

Dr. Iyamperumal, TNSTC
Ph. No.: +91-9840014412

STUDENT INNOVATOR CONTEST

October 13-16, 2017

As part of the prestigious India International Science Festival (IISF)-2017, to encourage and develop scientific temper and attitude, promote exchange of knowledge and ideas among young minds, Student Innovator contest for the School Children is being conducted, in coordination with Tamil Nadu Science and Technology Centre, in two levels on the topic "Oceans for the Society" on 5th October, 2017 at Periyar Science and Technology Centre, Gandhimandapam Road, Chennai-25. Level I is organized for students studying in VII to IX standards. Level II is organized for students studying in X to XII standards. The competition is for the innovative models made in the context of the above mentioned topic showcasing the recent developments and contributions of India in Science and Technology. The models can represent how oceans can be beneficial for the society in an environmentally friendly manner and showcase the Science and Technologies involved. The Best innovative student projects selected in this contest will be exhibited during October 13-16, 2017 at IISF 2017 venue at Anna University ground and prizes awarded. VVIPs and eminent scientists from various Institutions from India and abroad will visit the IISF-2017 meet and see the student projects. The students will have the opportunity to interact with eminent scientists and gain knowledge.

The students from all parts of Tamil Nadu apart from Chennai and Kanchipuram districts, students from all over Tamil Nadu like Koodankulam, Madurai, Salem, Tiruchirapalli, Coimbatore, Sirkali, Kumbakonam are participating in this event.



SCIENCE VILLAGE: PARLIAMENT TO PANCHAYAT

October 13-16, 2017

Venue: CSIR – Central Leather Research Institute

Co-ordinators:

Dr. Gopal Iyengar, MoES
Ph. No.: +91 11-24622059

Mr. Sabareesh PA, VIBHA
Ph. No.: +91-8826299500

SCIENCE VILLAGE: “PARLIAMENT TO PANCHAYAT”

October 13-16, 2017

The 2nd edition of the Science Village is set to unfold at the 3rd India International Science Festival – 2017 in Chennai at the CSIR – Central Leather Research Institute. The 1st science village – mega student’s camp was jointly organized by The Department of Science & Technology and Vijnana Bharati at the sprawling PUSA campus of the CSIR – National Physical Laboratory, New Delhi. It was attended by over 1800 students and teachers from across rural India to acquire knowledge on fundamental science, innovation, engineering and technology.

The theme of Science Village program was sculpted in such a way that the teacher and student delegates were selected and nominated by over 130 Hon'ble Members of Parliament from their respective adopted villages spreading across 22 states under the aegis of **Pradhan Mantri Sansad Adarsh Gram Yojana** and therefore the Science Village demonstrated a mass representation from the rural part of India. This was indeed a continuation of the democratic process: ‘Parliament to Panchayat’.

Science Village – 2017

Science Village - 2017 is set to repeat the success at CSIR – Central Leather Research Institute, Chennai and make a much greater attempt to reach out to the rural masses and propagate science to the extent of seeking scientific solutions to the diverse challenges facing our society, particularly the rural part of India. Students will undergo unique activities that shall cultivate scientific temper and encourage interest towards science.

The prime goal of science village is to give exposure to the students from rural India and make them aware of India’s achievements in frontier areas of science & technology. The Science Village program is linked with the **Pradhan Manthri Sansad Adarsh Gram Yojana*** through which each Member of Parliament will nominate 5 students and 1 teacher from their adopted village. The nominated students are from class 9th – 12th standard. It will be a lifetime opportunity for the students to be a part of such a mega event under a single roof. Each participating student and teacher will get an opportunity:

To visit Mega Science Expo: - An exhibition showcasing India’s achievements in Science and Technology by various Ministries, Departments and Institutions of the Government of India.

To have interactions with eminent scientists of India.

To visit laboratories.

To interact with representatives from Government Departments.

To be a part of live hands on science activities conducted by science communicators

To watch science films and present posters and discuss about their village.

To learn about celestial objects.

The students will also go through interactive scientific discussions, innovative experiments, quiz competitions which will boost their scientific skills and knowledge and pave way for their excellence in science. It is expected that through IISF 2017, the students will get the right global experience to develop scientific spirit at a very young age. It will nurture student delegates and groom them to become tomorrow’s scientists and technocrats of India!

***Pradhan Mantri Sansad Adarsh Gram Yojana** is a rural development programme broadly focusing upon the socio-cultural development in the villages, to spread motivation among the people, and for social mobilization of the villager community.

HOW THE SCIENCE VILLAGE FUNCTIONS?

The Science Village will have six different houses with each house named after famous Indian Scientist. Each student and the accompanying teacher from adopted village will be a member of one of such house throughout the program. For easy identification, each student and teacher of a particular house will be provided a cap and badge with single and prominent colour. All students from the respective houses shall perform all activities together and would be taken care of by their respective teachers and assistant house coordinators at all time. The teachers are required to take instructions from the House Coordinators and the Assistant House Coordinators at all times right from their arrival to departure from IISF -2017 Science Village.

SIX HOUSES OF SCIENCE VILLAGE

- 1. Aryabhata:** The great astronomer Aryabhata was born in 476 BC in Kerala. He was the first to deduce that the earth is round and rotates on its own axis and also declared that solar and lunar eclipse occur because of the shadows cast by the earth and moon respectively. He was the first mathematician to give what was later known as the tables of Sines and gave the value of π ($\pi = 3.1416$). The first Indian satellite, Aryabhata, was named after him.
- 2. Srinivasa Ramanujan (1889 – 1920):** An outstanding mathematician of no parallel, was a wizard of numbers. Ramanujan worked through the theorems of pure mathematics and succeeded in establishing large number of original results in function theory, power series, and number theory. Even today a large number of his theorems in number theory are being formally proved.
- 3. Sir. Chandrasekhara Venkata Raman (1888 – 1970):** Sir Raman's discovery made it possible to map out the levels of possible energy gains of the molecules and atoms to the substance and infer the details of molecular and atomic structure. He made excellent contribution in molecular diffraction of light, mechanical theory of bowed strings and diffraction of X-rays, theory of musical instruments and physics of crystals. In 1930, he won the Nobel Prize for his discovery of the Raman Effect.
- 4. Vikram Ambalal Sarabhai (1919 – 1971):** An Scientist and innovator who is widely regarded as the father of India's Space Programme. He founded the Physical Research Laboratory in Ahmedabad. HE also served as the Chairman of Atomic Energy Commission. The Vikram Sarabhai Space Centre at Thiruvananthapuram is named after this great visionary.
- 5. Homi Jehangir Bhabha (1909 – 1966):** Prof. Bhabha made significant contributions in theoretical high energy physics such as vector meson theory, Bhabha scattering and propounded theory of cosmic ray showers by cascade production of gamma rays and positive and negative electron pairs. He was the man behind the growth of atomic energy establishments and is also known as the father of atomic energy in India.
- 6. APJ Abdul Kalam (1931 – 2015):** Dr. APJ Abdul Kalam was the Eleventh President of India and a world renowned Space Scientist. He outshiningly contributed to India's civilian space programme and military missile development. He was given the Bharat Ratna Award in 1997 and is fondly referred to as 'The People's President' and 'The Missile Man of India'

ACADEMIC SCHEDULE OF SCIENCE VILLAGE

	Name of the Activities		Name of the Houses
SCI 1	Hands of Experiment - Physics	A	Aryabhata House
SCI 2	Hands of Experiment - Chemistry	B	S. Ramanujan House
LAB / PLA	CLRI Laboratory, Planetarium Visit	C	C.V.Raman House
SHIP	NIOT Ship Visit	D	Vikram Sarabhai House
STU - SCI	Students - Scientists Interaction	E	Homi. J. Babha House
POSTER	Poster Presentation & Discussion	F	A.P.J.Abdul Kalam House

Date	Activity	10.00-12.30 hrs	12.30 - 13.30 hrs	13.30 - 16.00 hrs	16.00 - 17.30 hrs	18.00 hrs Onwards				
12th Oct	Arrivals and Registration of Students & Teachers at Science Village				Briefings at Places of Accommodation					
13th Oct	SCI 1	Inaugural Function of IISF 2017	Lunch	A		Popular Talk	Visit to Expo / Cultural Event / Dinner			
	SCI 2			B						
	LAB / PLA				C					
	SHIP				D					
	STU - SCI							E		
	POSTER								F	
14th Oct	SCI 1	B				Popular Talk	Visit to Expo / Cultural Event / Dinner			
	SCI 2		C							
	LAB / PLA			D						
	SHIP				E					
	STU - SCI							F		
	POSTER								A	
15th Oct	SCI 1		D			Popular Talk	Visit to Expo / Cultural Event / Dinner			
	SCI 2			E						
	LAB / PLA				F					
	SHIP			A				B		
	STU - SCI								C	
	POSTER									D
16th Oct	SCI 1		F			Lunch	Group Photo Session / Visit to Expo	Valedictory Function of IISF 2017		
	SCI 2			A						
	LAB / PLA				B					
	SHIP								C	
	STU - SCI									D
	POSTER									



MEGA SCIENCE, TECHNOLOGY & INDUSTRY EXPO

October 13-16, 2017
Venue: Anna University Ground

Co-ordinators:

Mr. Narendra Sharma
Ph. No.: +91-81295 74777

Mr. Arun Pandey
Ph. No.: +91-8800778376

MEGA SCIENCE, TECHNOLOGY & INDUSTRY EXPO

October 13-16, 2017

This Expo will highlight the achievements and success stories of Indian Scientific/Academic Organisations, R&D Labs, PSUs and Indian Industry. IISF 2017 Expo will showcase various initiatives started by Hon'ble Prime Minister in the last 3 Years – Missions like Swachh Bharat Mission, Digital India, Skill India, Make an India etc., will be highlighted by various Ministries and Organisations.

IISF 2017 Expo will be a comprehensive show of Scientific, Technological and Industrial Programme and Achievements of India.

IISF 2017 Expo will be displaying 12 Mega Theme Pavilions, the relevant activities of the Participant Organisations.

List of the Themes:

- Space & Defence; IT & Cutting Edge Technologies
- Environment/ Earth Sciences, Meteorology & Ocean Sciences
- Energy, Power & Engineering, Chemicals/ Mining & Minerals & Industry
- Agriculture, Food, Nutrition, Life & Bio Sciences
- Water, Sanitation, Swachh Bharat, Waste Management
- Rural Development & Urban Development/ Skill Development & MSME
- Social Organisations Meet
- Science & Technology, Innovation & Industry
- Education / Universities
- Vibrant Bharat (State Science & Technology Programme)
- Healthcare, Medical Research, Bio Technology
- International Pavilion
- Special Pavilion of Handicrafts and Handlooms

Highlights of IISF 2017 Expo:

I. Participant Organisations:-

a. Major Flagship Organisations and their Units/Labs across India:-

Defence Research and Development Organisation (DRDO)
Indian Space Research Organisation (ISRO)
Council of Scientific and Industrial Research (CSIR)
Indian Council of Agricultural Research (ICAR)
Department of Atomic Energy (DAE)
Department of Biotechnology (DBT)
Indian Council of Medical Research (ICMR)
Department of Science & Technology (DST)

b. Participant Mega Institutions/Organisations and Ministries:-

All India Council for Technical Education (AICTE)
University Grants Commission (UGC)
BrahMos Aerospace

Software Technology Parks of India (STPI)
Central Warehousing Corporation (CWC)
Hindustan Aeronautics Limited (HAL)
Bharat Dynamics Limited. Bharat Dynamics Limited (BDL)
Bharat Electronics Limited (BEL)
Oil and Natural Gas Corporation Limited (ONGC)
Gas Authority of India Limited (GAIL)
Hindustan Petroleum Corporation Limited (HPCL)
Indian Oil Corporation Limited (IOCL)
Bharat Petroleum Corporation Limited (BPCL)
Cochin Shipyard Limited
National Highways and Infrastructure Development Corporation (NHIDCL)
Shipping Corporation of India
HP India
Unique Identification Authority of India (UIDAI) (Aadhar Card)
Ministry of Science & Technology
Ministry of Earth Sciences
Ministry of Urban Development
Ministry of Rural Development
Ministry of Water Resources
Ministry of Environment, Forest & Climate Change (MoEF&CC)
Ministry of Information Technology & Electronics
Ministry of Railways
Ministry of HRD
Ministry of AYUSH
Ministry of Defence
Ministry of Road Highways & Shipping
Ministry of Health & Family Welfare
Ministry of Child & Women Development
Micro, Small and Medium Enterprise (MSME)
Ministry of Power
Ministry of Petroleum & Natural Gas
Department of Handicrafts
Indian Council of Forestry Research and Education
Indian Plywood Industries and Research and Training Institute (IPIRTI)
National Biodiversity Authority (NBA)
Ministry of New and Renewable Energy
National Thermal Power Corporation Limited (NTPC)
Neyveli Lignite Corporation (NLC) India Limited
South Eastern Coal Fields (SECL)

c. State Councils of Science & Technology:-

All the State Councils of Science & Technology are displaying their Science & Technology activities.

Gujarat Council on Science & Technology
M.P. Council of Science & Technology
Uttarakhand State Council for Science & Technology
Rajasthan State Council of Science & Technology
Tamil Nadu State Council for Science and Technology

Chhattisgarh Council of Science & Technology
Council of Science & Technology, Uttar Pradesh
Rajiv Gandhi Commission for Science & Technology, Maharashtra
J & K State Science, Technology & Innovation Council
State Council for Science, Technology & Environment, Himachal Pradesh
Haryana State Council for Science and Technology
Assam Science Technology And Environment Council
Mizoram Science, Technology & Innovation Council
Andhra Pradesh State Council Of Science & Technology
Arunachal Pradesh State Council for Science and Technology
Department of Science, Technology & Environment, Goa
Karnataka State Council for Science and Technology
Kerala State Council for Science, Technology & Environment
Manipur Science & Technology Council
State Council of Science Technology & Environment, Meghalaya
Nagaland Science & Technology Council
Punjab State Council for Science & Technology
Sikkim State Council of Science and Technology
Telangana State Council Of Science & Technology
Tripura State Council For Science & Technology
West Bengal State Council of Science & Technology
NGO's Pavilions

d. International Pavilion:-

40 Projects under various Organisations under DST like Global Innovation & Technology Alliance, CEFIPRA (INDO-FRENCH), IGSTC (INDO-GERMAN), IUSSTF (INDO-US) and various DBT and CSIR International Programmes will be showcased.

e. Small Scale Industries:-

Above 50 Small Scale Industries will also take part in the Expo, showcasing their Technologies and Products.

f. Educational Institutions:-

Technical Universities like Anna University, RGPV Bhopal, JNTU Hyderabad, JNTU Kakinada, RTU Jaipur, UTU Dehradun, Hindustan University, Mata Vaishno Devi University Jammu and many Engineering colleges are also participating.

g. Design Innovation Centres:-

Special showcasing of Design Innovation centres by various IITs and Prestigious Universities, which is a project of Ministry of HRD, Govt. of India.

h. Dept. of Science & Technology Autonomous Institutions:-

National Council for Science & Technology Communication (NCSTC)
Science and Engineering Research Board (SERB)
Indian Institute of Geomagnetism (IIG) - Mumbai
Raman Research Institute (RRI) - Bangalore
Aryabhata Research Institute of Observational Sciences (ARIES) - Nainital

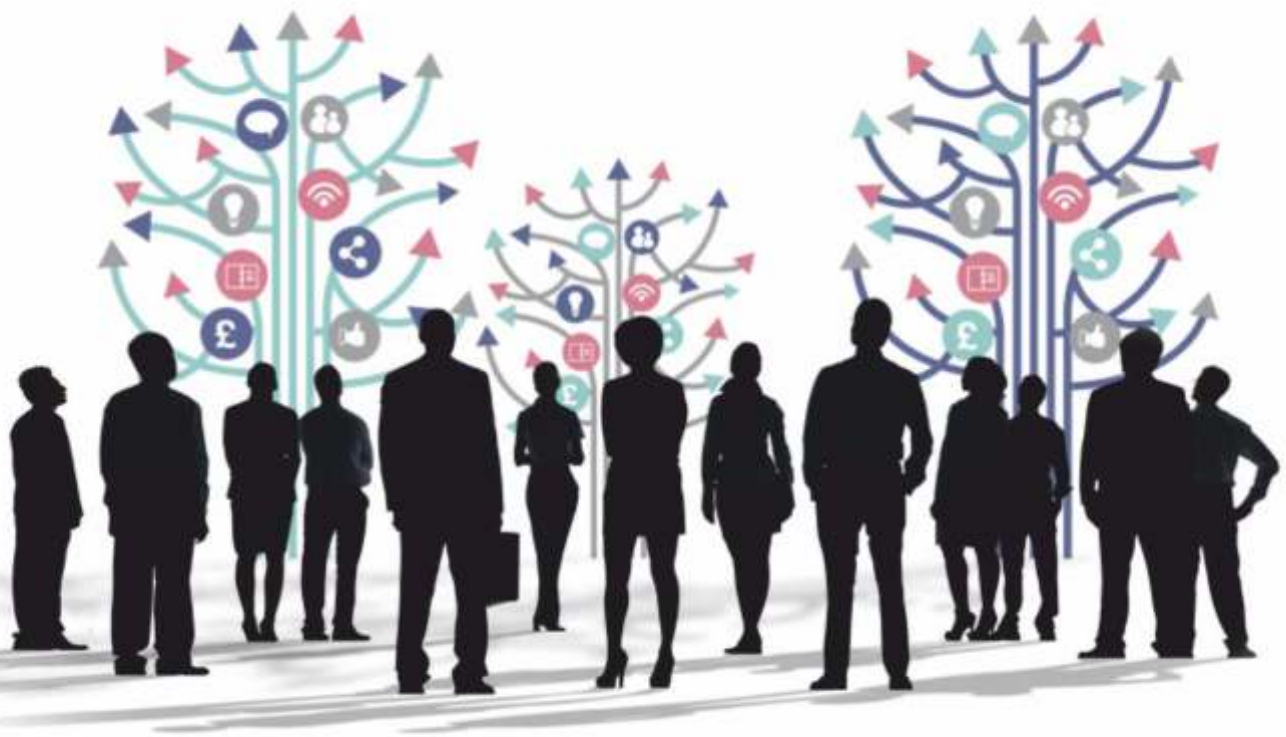
Institute of Advanced Study in Science and Technology (IASST) - Guwahati
Centre For Nano and Soft Matter Sciences (CENS) - Bangalore
International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI) - Hyderabad
Birbal Sahni Institute of Palaeobotany (BSIP) - Lucknow
Technology Information Forecasting & Assessment Council (TIFAC) – New Delhi
Indian Association for the Cultivation of Science (IACS) - Kolkata
SN Bose - Kolkata
Indian Institute of Science Education and Research (INST) - Mohali
Bose Institute - Kolkata
IIAP - Bangalore
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) - Bangalore
National Accreditation Board for Testing & Calibration Laboratories (NABL) – Gurugram
National Innovation Foundation (NIF) – Gandhi Nagar
Wadia Institute of Himalayan Geology (WIHG) - Dehradun
Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST) – Thiruvananthapuram
Vigyan Prasar – Noida

i. Handicrafts and Handlooms Expo:-

There will be about 100 Craftsmen across the Country will showcase beautiful crafts work

II. Exhibits:

Live models of Missiles, Warfare Tanks, Satellite Models, Agricultural projects and various Models/Charts/Live presentations/PPTs/Displays about on-going projects, achievements and programmes.



GRASS-ROOT INNOVATORS SUMMIT

October 13-16, 2017

Venue: Henry Maudslay (HM) Hall, Anna University

Co-ordinators:

Dr. Vipin Kumar, NIF

Ph. No.: +91-9825316994

Dr. Prakash Itankar, RTM Nagpur University

Ph. No.: +91-9766191818

Dr. Purnima Jalihal, NIOT

Ph. No.: +91-9444399824

GRASS-ROOTS INNOVATORS SUMMIT

October 13-16, 2017

National Innovation Foundation-India (NIF) will be organizing the 'Innovation Exhibition' as a part of the Grassroots Innovators Summit, which aims at providing a common platform for various stakeholders – from innovators, students, researchers to policy makers. About 100 innovative technologies from several states of the country will be showcased at the exhibition. The special focus will be given to those which could be diffused socially and generate employment.

On this occasion, NIF will also demonstrate the incubation process and the successful partnership between formal and informal sector, social diffusion stories, distinguished R & D efforts etc. The solutions based on grassroots innovations are cost effective, user friendly, suitable to local conditions or just appropriate for them. NIF has been trying consistently to contribute to development and diffusion of these innovations commercially and socially. Therefore, the exhibition at the IISF will expose visitors and others to the pervasive culture of creativity and innovation at grassroots. There will be seminar/round-table on innovations, incubation and entrepreneurship during the summit to educate and encourage the young aspirants to take innovations for start-ups.

SEMINAR ON INNOVATIONS, INCUBATION AND ENTREPRENEURSHIP

Date & Time: 13. 10.17 [2.00 PM to 6. 00 PM]

SN	Theme	Name of the expert
1	Scouting and Documentation of Green Grassroots Innovation and Outstanding Traditional Knowledge practices	Brig Ganesham, Palle Srujana Secunderabad, Telangana Mr. P. Vivekanandan SEVA, Madurai, Tamil Nadu
2	Value Addition Research & Product Development	Dr. Dhananjay Tiwari Joint Director/Scientist E & Program Officer, Nano biotechnology, DBT, New Delhi Prof. Sudeep Kumar Director of Extension, Tamil Nadu Veterinary and Animal Sciences University [TNUVAS], Chennai Dr. Kamal Nayan Agrawal Agricultural Mechanization Division, Central Institute of Agricultural Engineering, Bhopal, Madhya Pradesh Er. Vipin Laddha Farm Implement & Machinery Testing and Training Centre, Central Workshop, Swami Keshwanand Rajasthan Agricultural University [SKRAU], Bikaner, Rajasthan
3	Intellectual Property Rights	Dr. Manoj Haridas Principal Scientist & Head of Intellectual Property, ITC, Bangalore Mr. Dipak Vaid Surana and Surana IP Attorneys Chennai



ROUND TABLE MEET ON MASS COMMUNICATION

October 13-14, 2017

Venue: National Institute of Ocean Technology (NIOT)

Co-ordinators:

Dr. Manoj Patariya, NISCAIR

Ph. No.: +91-11-25846045

Mr. Eashwar K P, VIBHA

Ph. No.: +91-9500067559

Dr. Dhilsha, NIOT

Ph. No.: +91-9444399826

ROUND TABLE MEET ON MASS COMMUNICATION

October 13-14, 2017

As part of the India International Science Festival (IISF 2017), a **Round Table Meet on Mass Communication** is being organized during October 13-14, 2017 at the National Institute of Ocean Technology, Chennai.

The two-day **Round Table Meet on Mass Communication** will address various methods and techniques to popularize science and its applications. Science communicators, science journalists, social media, electronic and print media communicators dealing with science and passionate science students will be invited to discuss the various aspects of mass communication in this meet. It will offer a platform to discuss and address issues of science dissemination and for creating awareness about scientific achievements, schemes, and policies, with the objective of inclusive and synergistic communication. It would also be an opportunity to showcase various science communication products, such as publications, audio-visual communications, digital and other software materials.

The salient features of the Round Table Meet on Mass Communication are as follows:

Session 1:

Panel Discussion- Why science coverage in mass media is abysmally low? How it can be increased.

The session will include discussion by selected invited panellists/ experts on the theme where participants can ask questions on theme.

Session 2:

Scientific Session - Trends in Science Communication

This session will have paper presentations. Only selected abstract authors have been invited for the paper presentation.

Session 3:

Scientific session- Social Media Chaupal (Science Communication Through Social Media)

This session will be a group discussion amongst social media activists, bloggers and online newscasters where participants can attend.

Session 4:

Science Writing Workshop for Ph.D. scholars

This session will be a hands-on training on converting research information into popular science stories for mass media. Selected Ph.D. scholars who have submitted their published/ final research papers (being part of their Ph.D. work) have been invited for the workshop.

Session 5:

Round Table Meet and Summing Up: Science Communication – The Way Forward

This session will be in the form of a roundtable meet where experts of the field will discuss and deliberate on the future strategies and way forward for science communication for new India.

ROUND TABLE MEET ON MASS COMMUNICATION

October 13-14, 2017

Venue: National Institute of Ocean Technology (NIOT)

Day 1	October 13, 2017
14:30-15.30	<p>Inaugural Session</p> <p>Welcome address by Dr. Manoj Kumar Patairiya, Director, CSIR-National Institute of Science Communication and Information Resources</p> <p>Address by Guest of Honour, Sh.A. Jayakumar, Secretary General, Vibha</p> <p>Address by Guest of Honour, Ms. Andal Priyadarshini, Director, Doordarshan, Chennai</p> <p>Address by Guest of Honour, Dr. Narender K. Sehgal, UNESCO, Kalinga Prize Winner</p> <p>Address by Chief Guest, Dr. Girish Sahni, Director General, Council of Scientific & Industrial Research (CSIR)</p> <p>Address by Chair, Prof. Kamal Kant Dwivedi, Vice Chancellor, ITM University, Gwalior</p> <p>Vote of Thanks by Dr. Dhilsha Rajappan, Chief Scientist, National Institute of Ocean Technology (NIOT)</p>
15:45	High tea
16:00	<p>Session 1</p> <p>Panel Discussion: Why science coverage in mass media is abysmally low? How it can be increased</p> <p>Chair:</p> <p>Dr. Girish Sahni, Secretary, Department of Scientific and Industrial Research, Govt. of India and Director General, Council of Scientific and Industrial Research, New Delhi</p> <p>Experts:</p> <ol style="list-style-type: none"> 1. Sh. Pallava Bagla, Science Editor, NDTV, New Delhi 2. Dr. N. Murugan, Former Director, All India Radio, Chennai 3. Dr. A. R. S. Menon, Central Institute of Fisheries Technology, Kochi 4. Dr. V. K. Srivastava, President, Indian Science Writers' Association (ISWA), New Delhi 5. Dr. Upendra Nath Pandey, Dainik Tribune, Chandigarh 6. Dr. Nimish Kapoor, Vigyan Prasar, Noida
Day 2	October 14, 2017
09:30	<p>Parallel Session 2A</p> <p>Session: Trends in Science Communication</p> <p>Chair:</p> <p>Dr. Manoj Kumar Patairiya, Director, CSIR-National Institute of Science communication and Information Resources (CSIR-NISCAIR), New Delhi</p> <p>Presentations:</p> <ol style="list-style-type: none"> 1. Sh. V. P. Singh, Secretary, Indian Science Writers' Association, New Delhi Topic: Training and Employment in Science Communication– A Case Study

	<ol style="list-style-type: none"> 2. Dr S. Nagarathinam, Department of Communication, School of Linguistics and Communication, Madurai Kamaraj University, Madurai Topic: Gate keeping eco-media S&T information for newspapers 3. Dr. M. Neelamalar, Department of Media Sciences, Anna University, Chennai Topic: Social media and science communication in India 4. Er. Milan Kumar Raul, Samanta Chandrasekhar Vigyan Club (SCVC), Balasore Topic: Communication of science through hands-on activities 5. Ms. Pooja Virmani, Indian Science Communication Society, Lucknow Topic: Creating catchy scientific content & presenting it in a way that draws the sight & attention 6. Dr. P. Sri Jothi, Department of Visual Communication, Asan Memorial College of Arts and Science, Chennai Topic: Role and impact of social media in creating awareness and scientific knowledge on climate change communication among youth in India 7. Dr. Abhinav Singh, Akbarpur Degree College, Akbarpur, Kanpur Topic: विज्ञानसंचारमेंलोककलाकीभूमिका 8. Dr. Sanghamitra Deobhanj, Ranihat High School, Cuttack Topic: Telling stories in science for better communication 9. Sh. Prashant Raghav, CSIR-National Institute of Science Communication, New Delhi Topic: Communication strategies: Effective means of addressing social issues
09:30	<p>Parallel Session 2B Session: Trends in Science Communication Chair: Dr. Dhilsha, National Institute of Ocean Technology, Chennai</p> <p>Presentations:</p> <ol style="list-style-type: none"> 1. Sh. Abhay S Rajput, Indian Institute of Tropical Meteorology, Pune Topic: Weather and climate communication: What Indian scientists think about their scientific writings skills? 2. Sh. Phuldeep Kumar, Defence Scientific Information & Documentation Centre (DESIDOC), DRDO, Delhi Topic: Science communication in Indian languages 3. Dr. Sunitha Kuppaswamy, Department of media sciences, Anna university, Chennai Topic: Trends, tools and technologies for science communication in the digital age 4. Dr. Vikas Mishra, Akbarpur Degree College, Akbarpur, Kanpur Topic: संचार और जोखिम :: लोककला के सन्दर्भ में 5. Dr. V. Gurunadha Rao, Science Communicator, Mahabubabad Topic: Trends in science communication today: Filling the gap between theory and practice 6. Dr. Anshu Arora, Manav Rachna International University, Faridabad Topic: Changing trends and challenges in science communication

	<p>7. Sh. Aijaz Ahmad Dar, CSIR-National Institute of Science Communication, New Delhi Topic: Short duration training as a means to develop science communication skills- A case study</p> <p>8. Sh. Nandan Kumar Singh, Defence Institute of Advanced Technology, DRDO DU, Pune Topic: New ways to enhance science communication</p> <p>9. Sh. Swapnil Rastogi, University of Lucknow, Lucknow Topic: Trends in science communication</p>
11:00	Tea
11:30	<p>Session 3 Session: Social Media Chaupal (Science Communication Through Social Media) Chair: Thiru. V. Palanichamy, I.I.S., Director, News, All India Radio, Chennai</p> <p>Experts:</p> <ol style="list-style-type: none"> 1. Dr. Arvind Mishra, Secretary, Indian Science Fiction Writers' Association 2. Sh. Rajkumar Bhardwaj, Director, Educational Multimedia Research Centre (UGC), Indian Institute of Technology (IIT), Roorkee 3. Dr. I. Arul Aram, Anna University, Chennai 4. Dr. P. K. Ingle, Publication and Science Communication Division, CSIR-National Chemical Laboratory, Pune 5. Dr. Anil Saumitra, Department of Journalism and Mass Communication, Atal Bihari Vajpayee Vishwavidyalaya, Spandan, Bhopal 6. Sh. Tarun Kumar Jain, Editor, Vaigyanik Drishtikon, Jaipur
13:00	Lunch
14:00	<p>Session 4 Science Writing Workshop for Ph.D. scholars Chair: Prof. M. Sai Baba, Principal Scientist, Energy and Environment Program & Science Communication, National Institute of Advanced Studies, Bengaluru</p> <p>Experts:</p> <ol style="list-style-type: none"> 1. Dr. C. M. Nautiyal, Scientist & Science Communicator, Lucknow 2. Prof. Muthuswamy Balasubramanyam, Dean of Research Studies & Senior Scientist, Madras Diabetes Research Foundation, Chennai 3. Mr. Hasan Jawaid Khan, Chief Scientist, CSIR-National Institute of Science Communication and Information Resources <p>Participants:</p> <ol style="list-style-type: none"> 1. Sh. B. Mayur Prakash, Department of Mechanical Engineering, National Institute of Technology Calicut 2. Sh. Ramesh Kumar, Department of Biochemistry University of Allahabad, Allahabad, UP 3. Sh. M. Chandra Shekhar Nayak, Chemistry Dept., NIT Karnataka, Surathkal, Mangalore 4. Ms. Jyotshna, Analytical chemistry Department, CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow 5. Ms. Ferdous Qahtan, English Department, Dr. Babasaheb Ambedkar, Marathwada University

	<p>6. Sh. Zahoor Mir, NRCPB, IARI, Pusa Campus, New Delhi</p> <p>7. Sh. Birat Raja Pradhan, O/O Chief District Medical Officer, Sundargarh, Odisha, India</p> <p>8. Sh. Sanjit Kumar Saha, State Forest Training Institute, Hijli, Kharagpur</p> <p>9. Sh. Paul Reddy, National Centre for Nano science and Nanotechnology, University of Madras (Guindy Campus) Chennai, Tamil Nadu</p>
15:30	Tea
16:00	<p>Session 5</p> <p>Round Table Meet and Summing Up</p> <p>Science Communication – The Way Forward</p> <p>Chair: Dr. V. K. Saraswat, Member, NITI Aayog, New Delhi</p> <p>Co-Chair: Sh. Jayant Sahasrabuddhe, Organising Secretary, Vijnana Bharati, New Delhi</p> <p>Experts:</p> <ol style="list-style-type: none"> 1. Dr. P. Iyamperumal, Executive Director, Tamil Nadu Science and Technology Centre, Chennai 2. Prof Shambhu Nath Singh, Director, School of Journalism and New Media Studies, IGNOU, New Delhi 3. Dr. Kamal K. Kapoor, University of Jammu, Jammu & Kashmir 4. Dr. P. K. Srivastava, Scientist and Science Communicator, Lucknow 5. Sh. V. P. Singh, Secretary, Indian Science Writers' Association, New Delhi 6. Sh. Nandan Kudhyadi, Producer-Director, Nandan Kudhyadi Productions, Pune 7. Sh. Abhay S Rajput, Indian Institute of Tropical Meteorology, Pune 8. Sh. Praveen B. Gawali, Indian Institute of Geomagnetism, Navi Mumbai



ATTEMPT TO CONDUCT WORLD'S "LARGEST BIOLOGY LESSON" WITH SCHOOL CHILDREN

**October 14, 2017
Venue: Anna University**

Co-ordinators:

Dr. K. Girish Kumar
Ph. No.: +91-9847363660

Dr. Vaisakh VS
Ph. No.: +91-9717096659

ATTEMPT TO CONDUCT WORLD'S "LARGEST BIOLOGY LESSON" WITH SCHOOL CHILDREN

October 14, 2017

Vijnana Bharati & MOES has been in a drive to motivate school students to take up science education as their career. In this regard, this year, we are gearing up to conduct the "Largest Biology Lesson" involving a group of 1000 school students. Proper counting and monitoring mechanisms will be adopted. The aim of the programme is science popularisation among students. Record event will take place during India International Science Festival 2017.

50 students each from 20 local schools have been shortlisted for the attempt. There will be stewards & witnesses monitoring these 1000 students. The entire event will be observed and catalogued by the Judges from Guinness Book of World Record as well.

The event will include a short power-point presentation about Cell Biology. It will be followed by a demonstration of the process of isolation of DNA from papaya fruits. A write-up about DNA and how it impacts life, along with the description of the experiment will be distributed among students to motivate the younger generation towards greater creativity.



NATIONAL SCIENCE TEACHER'S WORKSHOP

October 14-15, 2017

Venue: Vivekananda Auditorium, Anna University

Co-ordinators:

Dr. Arvind Ranade, Vigyan Prasar

Ph. No.: +91-9871439594

Mr. Gopakumar, NIOT

Ph. No.: +91-9884816817

NATIONAL SCIENCE TEACHER'S WORKSHOP

October 14-15, 2017

Teachers are the nation builders; they inculcate and imbibe knowledge and wisdom in young age. They are the basic source of education for everyone; teachers play the crucial role in shaping the nation. They have the ability and the strength to develop ideals and masters against the anomalous thinking and thoughts. They help us in informed decision making. They were widely loved and respected worldwide because of their teaching influences, high degree of idealism, passion and selfless service. They not only help in imparting knowledge but also shape the values and ideals of modern nation by leaving a deep imprint on our society. Assembly of such greatest brains of the country on a single platform where various aspects of science education, teaching learning, methodology, its pros and cons, need, change, and modernization etc are the need of time to be discussed openly.

India International Science Festival will bring about hundreds of such innovative, dedicated, and passionate award winning teachers on a single platform to share the experiences and put forth the future roadmap for the country. Many teachers will showcase the innovative methods of science teaching based on the subject themes and ideas. Summit will bring out the state of art report based on the dissertations and deliberations conducted. It is expected that the report will help to impact the future policy-making process and educational reforms in government.

National Science Teacher's Workshop

October 14-15, 2017

Venue: Vivekananda Auditorium, Anna University

October 14, 2017	
08:30 - 10:00 10:00 - 11:00 11:00 - 12:00 11:00 - 12:00	Registration Inaugural Function Plenary-I How to make Physics Interesting? Prof. H C Verma , IIT Kanpur
12:00 - 12:30	Tea
12:30 - 13:30	Plenary-II Role of Science Teachers in Making Bio Science Interesting Prof. Achuthsankar S Nair , University of Kerala, Thiruvananthapuram
13:30 - 15:00	Lunch
15:00 - 15:30	Panel Discussion –I Pedagogy of Science Teaching and Learning Prof. Dinesh Kumar, Prof R. K. Parashar and Dr. Rachna Garg (NCERT, Delhi)
16:30 - 17:00	Tea
17:00 - 18:00	Plenary-III Why the Mathematics is important and how to make it interesting Er. B. N. Rao , Raipur
October 15, 2017	
10:00 - 11:30	Panel Discussion –II Role of Science Teachers in Communicating Science Mr. K G Suresh , DG IIMC, Dr. Manoj Pateriya , NISCAIR, Mrs. Kinkini Dasgupta Mishra , VP
11:30 - 12:00	Tea
12:00 - 13:00	Plenary-IV Role of Teachers in developing Chemist for Nation Development Dr. Chandrasekhar S , Director, IICT, Hyderabad
13:00 - 14:30	Lunch
14:30 - 15:00	Demonstrations by Practising Teachers in Open Session Physics: 1. Dr. R K Awasthi 2. Mr. Manoranjan Kumar 3. Prof. Joga Chandrasekhar Rao Chemistry: 1. Mr. Arun Kumar Yadav 2. Mrs. Jyoti Milind Medpilwar 3. Mrs. Deepti Chandan Singh Bisht Mathematics: 1. Mrs. Kanakavalli R. 2. Ms. Lalitha Bai G 3. Mr. Abhilash Madhava Biology: 1. Mrs. Archana Sanjay Gore 2. Dr. Jogeshwar S. Purohit 3. Mr. Pravin Jadhav
17:00 - 18:00	Valedictory Function



INDUSTRY-ACADEMIA INTERACTION MEET (IAI)

October 14-15, 2017

Venue: Vigyan Auditorium, CSIR-SERC, Chennai

Co-ordinators:

Dr. J Raghava Rao, CLRI

Ph. No.: +91-9840076201

Mr. Mohd. Sadiq, CLRI

Ph. No.: +91-9566101121

Dr. Asheesh Shah, VIBHA

Ph. No.: +91-9891343337

INDUSTRY-ACADEMIA INTERACTION MEET (IAI)

October 14-15, 2017

The 3rd India International Science Festival is being organized during October 13-16, 2017, at Chennai. As a part of this Science festival, Industry-Academia Interaction Meet will be held on October 14-15, 2017 at Vigyan Auditorium, CSIR-SERC, Chennai, which will focus on the theme **“MSME and Sustainable Development”**. This event is jointly Co-ordinated by CSIR-CLRI, CSIR-SERC and NIOT.

The interaction meet aims at Industry – Academic Institutional tie ups in R&D and achieving improved efficiency in production and manufacturing. The interaction will bring out a brief proceeding on the recent paradigm changes in various sectors of Industry. Representatives from industry and academia will also have a good opportunity to discuss the changing trends on management principles, scientific advancement and technological assimilation in industry and economy.

Session Themes are as follows

- Technology forecasting and changing trends in MSME sector
- Industry-academia partnership: Initiatives, issues and challenges
- Paradigm shifts and avenues for zero defect zero effect (ZED)
- Innovation led Incubators and Start-ups SSR and CSR
- Mass transportation: New frontiers and challenges
- Energy and environment

Eminent speakers from the industry and the academia representing National and International bodies will share their experiences and address major issues.

Outcome envisaged

- Building a tripartite among academia, industry and trade association
- Providing a meeting platform for new start-ups and entrepreneurs
- Disseminating the available opportunities for empowering the MSME sector
- Reaching the unreached on technological developments in MSME sector
- A book on talks delivered by experts during the IISF 2017
- Recommendations of the conclave as white paper

INDUSTRY-ACADEMIA INTERACTION MEET (IAI)

October 14-15, 2017

Venue: Vigyan Auditorium, CSIR-SERC, Chennai

October 14, 2017	Day 1
09.00 - 10.30	Registration
10.30 - 12.30	Inauguration
13.00 - 14.00	Lunch Break
14.00 - 15.15	Session 1: Technology Forecasting and Changing Trends in MSME Sector
15.15 - 15.45	Tea Break
15.45- 17.00	Session 2: Industry-Academia Partnership: Initiatives, Issues and Challenges Lecture 1 Lecture 2 Lecture 3
October 15, 2017	Day 2
9.30 - 10.45	Session 3: Paradigm Shifts and Avenues for Zero Defect Zero Effect (ZED) Lecture 1 Lecture 2 Lecture 3
10.45 -11.00	Tea Break
11.00-12.15	Session 4: Innovation Led Incubators and Startups- SSR and CSR Lecture 1 Lecture 2 Lecture 3
12.30 - 13.30	Lunch Break
13.30 – 14.45	Session 5: Mass Transportation: New Frontiers and Challenges Lecture 1 Lecture 2 Lecture 3
14.45 - 15.00	Tea Break
15.00-16.15	Session 6: Energy and environment Lecture 1 Lecture 2 Lecture 3
16.15 - 17.00	Valedictory



INTERNATIONAL SCIENCE FILM FESTIVAL

October 14-16, 2017

Venue:NCSCM, Anna University Campus

Co-ordinators:

Mr. Nimish Kapoor, Vigyan Prasar

Ph. No.: +91-9810215648

Dr. Phani Kumar, NIOT

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Dr. Hemwati Nandan, VIBHA

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INDIA INTERNATIONAL SCIENCE FILM FESTIVAL

October 14-16, 2017

As part of the India International Science Festival (IISF) 2017, a three-day India International Science Film Festival is being organised during 14th to 16th October 2017 at National Centre for Sustainable Coastal Management (NCSCM), Anna University Campus, Chennai.

The science film festival seeks to promote scientific temper among masses and aims at attracting talented young science filmmakers and science enthusiasts. Science film is an effective tool for science communication to foster and create an excitement of science amongst people at large. The film festival offers an opportunity for students and other participants to get involved with the process and improve their understanding of various feats in science and technology.

Internationally acclaimed 24 science films from nine countries including Australia, France, Germany, Italy, Korea, Norway, Sweden, UK, USA will be screened during the festival.

India International Science Film Festival is partnering with Economic & Social Research Council-UK; The Natural Environment Research Council-UK; Research Council UK India; Science & Innovation Network-British High Commission; CNR WEB TV-Italy; National Research Council-Italy; Max-Planck Institute-Germany; Australian Government; 20th Century Fox-USA; Embassy of Sweden in India; French Cultural Institute; Embassy of France in India; Royal Norwegian Embassy in India; Embassy of the Republic of Korea, India.

A science film competition for Indian film makers (professional and student categories) is being organised during the festival with the following themes: Science for New India; Science and Sustainable Development; Swachh Bharat-Swasthya Bharat; Technology and Innovations; Climate Change – Challenges & Solutions.

Total 89 science films from Indian film makers (47 films in professional category and 42 films in student category) were received. Shortlisted 29 Indian science films will be screened in the film festival and a Jury will select films for IISF Science Film Awards 2017 in professional and student categories. Film makers will be awarded with cash, trophy and certificates. Following cash awards were announced: Category A (films made by professional film makers) First Prize - Rs. 1,00,000/-; Second Prize - Rs. 75,000/-; Third Prize - Rs. 50,000/-. Category B (film made by school / college students) First Prize - Rs. 50,000/-; Second Prize - Rs.30,000/-; Third Prize - Rs. 20,000/-.

Master Classes / Interactive sessions on various aspects of science & environment films will be organised during the film festival by eminent science communicators and filmmakers from Discovery Channel, BBC, Ramoji Film City, AJK MCRC. Themes of the Master Classes include (i) Content Research & Visualisation for Science Films; (ii) The World of Science Films; (iii) Science Films: Story Telling Aspects; (iv) Pre to Post Production aspects of Environmental; (v) Science Film Making & (vi) Scripting for Science Films. A Panel Discussion on Effective Science Communication through Videos will be conducted during the film festival.

Professionals, student film-makers and science enthusiasts will be able to interact and get sensitised for using science films as a means to science communication and serving the nation.

INDIA INTERNATIONAL SCIENCE FILM FESTIVAL

October 14-16, 2017

Venue: Delta Auditorium (ground floor) and Rosette Convention Centre (first floor)
National Centre for Sustainable Coastal Management (NCSCM), Anna University, Chennai

Partner countries: Australia, France, Germany, Italy, Korea, Norway, Sweden, UK, USA

Academic Partners: National Centre for Sustainable Coastal Management, Chennai;
Department of Media Sciences, Anna University, Chennai

Delta Auditorium	
DAY 1:	October 14, 2017
Time	Activity
09:00 - 10:00	Registration
10:00 - 11:00	Inaugural session Screening of inaugural film
11:00 - 11:30	Tea
11:30 - 13:30	Screening of foreign films with remarks by the country representative
13:30 - 14:30	Lunch
14:30 - 16:30	Screening of foreign films with remarks by the country representative
16:30 - 17:00	Tea
17:00 - 18:00	Screening of foreign films with remarks by the country representative

Rosette Convention Centre

Time	Activity
14:30 - 16:30	Master Class: Environmental Film Making by Shri Himanshu Malhotra , Sr. Science Film Maker & Environmentalist, New Delhi and Dr Sabina Kidwai , Associate Professor, AJK MCRC, Jamia Millia Islamia, New Delhi; followed by interaction on Environmental Films produced by NCSCM with Prof. Dr Ramesh Ramachandran , Director, NCSCM and Dr Purvaja Ramachandran , Scientist G, FTR - Futuristic Research Division, NCSCM
17:00 - 18:00	Master Class: Science Film Making by Shri Siva Kumar M. , Head, Direction Department, LV Prasad Film & Television Academy, Chennai

DAY 1: Screening of foreign films

Delta Auditorium					
S.No.	Films' title	Duration	Language	Director*/Producer**	Country
1.	The Taste of Korea - The Taste of Seoul, A Special Tune in Namdaemun	00:22:40	Korean		South Korea
2.	The Taste of Korea - Cheonggukjang and Tofu, The soybean as the king of ingredients	00:21:20	Korean	YTN Science PD, Chang limYoo**	

3.	Exploring Korean History - Hanbok, Korea's Scientific Masterpiece	00:40:22	Korean	YTN Science PD,	
4.	Exploring Korean History - Technique to manage fire and heat, Ondol	00:39:52	Korean	In-Sik Park**	
5.	Brain Overload	00:51:57	English	Laurence Serfaty*	France
6.	Immerstar, virtual reality platform	00:07:28	English	Pierre-Oliver Gaumin*	
7.	Euro-Argo:towards a sustained European contribution to Argo	00:04:21	English	E.Mamaca - O.Dugornay - P.Moret*	
8.	Métagenopolis version anglaise	00:08:49	English	Pélican Prod*	
9.	Biomaterials - patent solutions from nature	00:08:36	English	Massih Media and Max-Planck Gesellschaft, Generalverwaltung, München**	Germany
10.	Intelligent Systems - computer learn to understand the world	00:08:56	English		
11.	Sweden, Leading the World in Innovation	00:05:00	English	Embassy of Sweden in India, New Delhi**	Sweden
12.	Importing garbage for energy is good business for Sweden	00:04:00	English		
13.	In Sweden, cash is no longer king	00:02:35	English		
14.	Reducing the burden of injury in Australia and India	00:01:58	English	Australian Government**	Australia
15.	Quantum computing	00:02:46	English		
16.	Fuck Fossils - a future you don't want	00:05:09	English	Marianne Kleven*	Norway
17.	Preventing HIV risk in Southern Africa	00:05:08	English	Economic & Social Research Council, UK**	UK
18.	Changing the policy mindset on cycling	00:03:40	English		
19.	30 Years of Healing the Ozone Layer - How it all happened	00:02:46	English	The Natural Environment Research Council , UK**	
20.	Guglielmo Marconi, the man, the scientist and the inventor	00:14:36	Italian	CNR WEB TV, National Research Council (Cnr), Italy**	Italy
21.	The Sea at the end of the Earth	00:17:46	Italian		

DAY 2: October 15, 2017

Delta Auditorium	
Time	Activity
10:00 - 11:00	Screening of Indian films - competitive category A with remarks by film maker
11:00 - 11:30	Tea
11:30 - 13:30	Screening of Indian films - competitive category A brief remarks by film maker
13:30 - 14:30	Lunch
14:30 - 16:30	Screening of Indian films - competitive category A with remarks by film maker
16:30 - 17:00	Tea
17:00 - 18:00	Screening of Indian films - competitive category A with remarks by film maker

Rosette Convention Centre

Time	Activity
11:30 - 13:30	Master Class: The World of Science Films by Shri Pankaj Saxena, Film Maker, Television Programmer & Media Academician; Formerly Vice President, Discovery Channel & Head of Programming, BBC Worldwide Channels
14:30 - 15:30	Interactive session: Jury's view on competitive films of IISFF 2017 1. Prof. Shambhu Nath Singh, Chairman, Jury, IISFF 2017 2. Sri Pankaj Saxena, Member, Jury, IISFF 2017 3. Sri Himanshu Malhotra, Member, Jury, IISFF 2017
15:30 - 16:30	Master Class: Content Research & Visualisation for Science Films by Shri Nandan Kudhyadi, Sr. Science Film Maker
17:00 - 18:00	Master Class: Scripting for Science Films by Prof. Shambhu Nath Singh, Director, School of Journalism and New Media Studies, IGNOU, New Delhi

DAY 2: Screening of films - competitive category A (films made by professional film makers / institutions)**Delta Auditorium**

S.No.	Films' title	Duration	Language	Director*/Producer**
1.	Affordable Drugs for All	00:10:01	English	Asrar Shamsi / Super-ads Media
2.	Discovery of Rhododendron Forest	00:15:23	English	Lovita J R Morang / Donyi-Polo (Asia) Film Production
3.	Do Not Honk	00:10:31	Hindi	Ishrat Jahan M G Nawaz
4.	E-Waste	00:15:22	English	Chandra Kumar P.H. / EMMRC, University of Mysore
5.	Farmers of the Future	00:10:42	English	Rishu Nigam/TERI, New Delhi
6.	Forest Fire ...A Man Made Disaster	00:23:30	English	K.Gopinath & S.M.Keerthikumer / EMMRC, Mysore
7.	Grandma's Forest	00:21:36	English	G S Unnikrishnan Nair
8.	Indian National Centre for Ocean Information Services	00:22:28	English	Sanjay Giri / Indian National Centre for Ocean Information Services
9.	Hariman Apple - A Hope for India	00:24:47	Hindi	Nitin Yaduvanshi / No Mind Films Production
10.	Naula : Water Temple of the Himalayas	00:17:57	Hindi	Shriniwas Oli

11.	Out in the Open	00:16:15	English	Seema Muralidhara / TERI
12.	Packages for Farmers Prosperity	00:16:36	English	Asrar Shamsi / Super-ads Media
13.	Satyendra Nath Bose	00:24:59	English	Shila Datta / Vigyan Prasar
14.	Techstart	00:20:32	English	Matiur Rahman / Indo-US Science & Technology Forum
15.	The Loss of Western Ghats	00:23:28	English	Biju Pankaj / Mathrubhumi News
16.	The Tale of Blue Blood (Preventing Toxicology Unit)	00:20:04	Hindi	Rajendra Vishwakarma / EMRC, Sagar, MP
17.	#TullaDozingTheBull@Zojila	00:25:59	English	Jalal Ud Din Baba / Ultimate Horizons, J&K

DAY 2: Screening of films - Non competitive

Delta Auditorium				
S.No.	Films' Title	Duration	Language	Director / Producer
1.	Solar Energy for a Healthy Life	00:08:40	English	Satish Pande / Advertising Limited & Comfed Productions Pvt. Ltd.
2.	Neuroscience Research Lab of PGIMER, Chandigarh	00:07:00	English	PGIMER, Chandigarh

Day 3: October 16, 2017

Delta Auditorium	
Time	Activity
10:00 - 11:30	Screening of Indian films - competitive category B with remarks by film maker
11:30 - 12:00	Tea
12:00 - 14:00	Screening of foreign films with remarks by the country representative
14:00 - 16:00	Lunch
16:00 - 18:00	Valedictory Programme and Award Ceremony of IISF 2018 at main pandal in Anna University Campus

Rosette Convention Centre

Time	Activity
10:00 - 11:30	<p>Welcome address by Dr Asheesh Shah, Chief Coordinator, IISF 2017</p> <p>Panel Discussion: Effective Science Communication through Videos</p> <p>Dr Manoj Patariya, Director, CSIR-NISCAIR, New Delhi - Moderator / Chair</p> <p>Dr C. M. Nautiyal, Former Scientist, BSIP, Lucknow</p> <p>Ms Suparna Dutta, BIT Mesra, Noida Campus</p> <p>Shri Shekhar Dattari, Sr. Film Maker, Chennai</p> <p>Shri P. Srinivaas, Sr. Film Maker, Chennai</p> <p>Mr Arun Chidambaram, Sr. Film Maker, Chennai</p> <p>Dr S. Arulchelvan, Dept. of Media Sciences, Anna University</p>
11:30 - 12:00	Tea

12:00 - 14:00	Master Class: Science Film Making: Story Telling Aspects by Shri Santosh Pandey, Senior Producer, ETV Bharat; Formerly Head of Department, Digital Film making and Television Production, Ramoji Academy of Film & Television, Ramoji Film City, Hyderabad
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DAY 3: Screening of films - competitive category B (films made by school / college students)

Delta Auditorium

S.No.	Films' Title	Duration	Language	Director / Producer
1.	Accessible Science	00:05:00	English	Ananya Jain / DREAMS Foundation
2.	A. W. S. M.	00:05:08	English	Suyash Shreshtha
3.	D3ST!NY	00:09:56	English	Laxya Pahuja / Rishav Sharma
4.	Ek Aasha Ki Kiran	00:07:05	English	Sreedevi Murthy / Utpal Shanghvi Global School
5.	Oneness With The Infinite	00:08:55	English	Arjak Bhattacharjee / IIT Kanpur
6.	Renovative Development	00:07:32	English	Aravind Kishore R / University College of Engineering - Dindigul , Anna University
7.	The Choice	00:07:46	English	Priyanka Dasgupta
8.	Where Have The Sparrow Gone	00:09:58	Marathi	Rushikesh Daud / Deogiri Institute of engineering and management Studies
9.	Swaampurna	00:09:45	English	Neeti Kesarwani / BIT Mesra, Noida Campus
10.	Manjal Neerattu	00:06:11	English	Didimis Johnson P / IIRBS, University

DAY 3: Screening of foreign films

Delta Auditorium

S.No.	Films' title	Duration	Language	Director*/Producer**Country
1.	She Started It	01:20:00	English	Insiyah Saeed, Nora Poggi*USA
2.	The Adaptable Mind	00:11:00	English	Tiffany Shlain*
3.	Hidden Figures	02:07:00	English	Theodore Melfi* 20th Century Fox**



NATIONAL START-UP SUMMIT

October 14-15, 2017
Venue: Anna University

Co-ordinators:

Dr. Anil Kothari
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NATIONAL START-UP SUMMIT

October 14-15, 2017

All India Council for Technical Education (AICTE) in collaboration with Vijnana Bharati (VIBHA) and partnering with other government agencies such as DBT, DST, DIPP, AIM - NITI Aayog, NRDC and FITT is organising “National Start-up Summit-2017” under the aegis of India International Science Festival (IISF 2017), a joint mega event of Ministry of Science and Technology and Ministry of Earth Sciences will be held during October 13 – 16, 2017 at Chennai.

The aim of IISF-2017 is to provide a single platform of interaction among the participants from all corners of the nation to share and spread scientific ideas and discoveries. The National Start-up Summit 2017 is intending to provide a network platform and opportunities for start-ups to showcase, demonstrate and award the best ones. Further referral linkage supports in terms of mentor linkage and access to incubation and acceleration programs at national and international level will be facilitated.

Through the “Start-up Contest - 2017” more than 1200 applications were received under different categories of Student/early Stage, Faculty Lead and Growth Stage Start-ups and Institutions supporting innovation & Start-ups in their campus and region. Total 60 teams/start-ups are short-listed to demonstrate their prototypes and present their business model to national jury and will compete for top positions for national awards under each Start-up Categories during the two-day long Start-up Summit 2017, October 14 & 15, 2017 at Chennai.

NATIONAL START-UP SUMMIT

October 14-15, 2017 | Venue: Anna University

October 14, 2017	Day-1, Start-up Summit 2017
09:00 onwards	Start-up Exhibition & Networking
09:00 – 11:00	Inauguration Address
11:00 – 11:15	Exhibition Inauguration
11:15 – 12:30	Experts Talk – Innovation & Entrepreneurship
	Parallel Session
11:00 - 13:30	Jury Round - Evaluation of Start-ups/Team
13:30 - 14:30	Lunch Break
15:00 - 16:30	Experts Talk – Innovation & Entrepreneurship
	Parallel Session
15:00 - 17:30	Mentorship Round for Short-listed Start-ups
October 15, 2017	Day-2, Start-up Summit 2017
09:30 onwards	Start-up Exhibition & Networking
10:30 – 11:15	Mentors Discussion Session – Role of Mentor and Importance of Mentorship
11:15 – 13:30	Presentation by Selected Start-ups/Teams
	Parallel Session
11:15 – 13:30	Evaluation Round for Institution Supporting Start-ups
13.30 – 14:30	Lunch Break
15:00 – 16:00	Indian Start-ups: Challenges, Opportunities and Internationalization
16:00 – 16:30	Open House Session: Q&A with Panellist
16:30 – 17:30	Award Disbursement& Valedictory Address
17:30	Vote of Thanks

14 October 2017	Day - 1
10:30 onwards	Exhibition Inauguration & Opening Address by Chief Guest Hon'ble Minister Dr. K. Vijay Raghavan, Secretary, DBT Dr. Vijay Bhatkar, President, Vijnana Bharati Alok Prakash Mittal, Member Secretary, AICTE
11:00 to 13:00	Business Pitch & Evaluation by National Jury Members (TBD) <ul style="list-style-type: none"> • K K Nirala, Director, Technical Education, Gujarat • Asgar Ahmad, Director, NEN, Wadhani Foundation • Venkatesh Sarbasidhi, Microsoft • Nitin Jain, DBT • Vishal Bansal, Health Start • U K Sharma, NITI Aayog • Subodh Srivastava, Kirloskar • Kapil Malhotra, Total Solutions • Alok Kumar, Railway Board • Hiranmay Mahanta, AICTE Start-up Policy
15:00 to 17:00	Mentors Round – Start-ups One to One Discussion with mentors <ul style="list-style-type: none"> • Shuchin Bajaj, Founder, Cygnus Hospitals • Unnat Pandit, AIM, NITI Aayog • Nitin Jain, DBT • Sanjeev Majumdar, NRDC • Akhilesh Mishra, DST • Gagan Aggarwal, Canada India Centre for Excellence (CICE), Canada • Vishal Bansal, Health Start • Asgar Ahmad, Director, NEN, Wadhani Foundation • Mukesh Pandey, RGPV, Bhopal • A. M. Chincholkar, MPCE, Ratnagiri • Moulshree Shah, HRD • R. Hariharan, Adviser-II, AICTE
15 October 2017	Day -2
19:30 to 16:00	Panel Discussion: Indian Start-ups: Challenges and Opportunities and Internationalization(TBD) <ul style="list-style-type: none"> • Sanjay Inamdar, Chairman, AICTE Start-up Policy Implementation Committee • R Ramanan, Mission Director, AIM, NITI Aayog • Renu Swarup, DBT • Anita Gupta, DST • Anil Wali, FITT, IIT Delhi • Shuchin Bajaj, Cygnus Hospitals • H Purushotam, Chairman & Managing Director, NRDC • Sanjay Vijayakumar, CEO, Start-up Village, Kerala • Sunil Gupta, Vice Chancellor, RGPV, Bhopal
16:00 to 17:30	Award Distribution & Valedictory Address (TBD) <ul style="list-style-type: none"> • Chair by Hon'ble Minister • M P Poonia, Vice-Chairman, AICTE • Rajiv Aggarwal, Joint Secretary, DIPPP/Start-up India • V.Ramgopal Rao, Director, IIT Delhi • Anju Sharma, Principal Secretary, Higher & Technical Education, GoG
Other Invited Delegates State Start-up Mission representatives from Gujarat, Tamil Nadu, Odissa, Kerala, Karnataka, Telangana, AP, Lead Incubators etc.	
Session Coordination & Moderation by:	
Dr. Asheesh Shah, Dr. Anil Kothari, Mr. Tata Sudhakar and Mr. Dipan Sahu, Dr. Balamurugan, Dr. Thyagarajan	



NATIONAL SOCIAL ORGANIZATIONS & INSTITUTIONS MEET (NSOIM)

October 14-15, 2017

Venue: CUIC Auditorium, Anna University

Co-ordinators:

Mr. NP Rajive, VIBHA

Ph. No.: +91-9020336500

Dr. S. Balachandran, IMD

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NATIONAL SOCIAL ORGANIZATIONS & INSTITUTIONS MEET (NSOIM)

October 14-15, 2017

Objective: Capacity building of Social Organisations & Institutions through Science & Technology interventions for Nation building. Expected Participants are 500 Social Organisations & Institutions including some of the CSR foundations.

For transforming India through Science & Technology Interventions focus areas or twelve

Flagship Themes are decided for deliberations in the two day programme as follows:

- Digital India
- Financial Literacy
- Skill India & Entrepreneurship
- Swachh Bharat
- Alternate Energy
- Swasth Bharat: Public Health & Ayush
- Water Management & River Rejuvenation
- Sustainable Agriculture & Environment
- Integrated Development
- Women Empowerment and Child Development
- Youth Empowerment & Education
- Science and Technology for the masses

Major outcome of the Meet is to form a Nation-wide network of Social Organisations & Institutions who are engaged in Nation building and bring together all the stake holders in Transforming India. Science Orientation & Technology dissemination through the vast resource of the Social Organisations to bring transformational change in the select focus areas or flagship themes. Capacity building and engagement of all Nation building Organisations in promoting the Flagship programmes in the grass root level for transforming India. Promote Social Entrepreneurship and ensure sustainability of such organizations and encourage income generating activity to household with the support of science & technology interventions. Bringing out a Compendium on the topics of the National Meet, related to Social Organisations on its role in Nation Building.

National Social Organizations & Institutions Meet (NSOIM)

Transforming India: Issues, Challenges & Opportunities

October 14-15, 2017

Venue: CUIC Auditorium, Anna University Campus, Chennai

Day – 1 (October 14, 2017)		
Time	Program Schedule	
08:30 – 10:00	Registration	
10:00 – 11:30	Inaugural Session	
	Welcome : Mr. Rajive N P, Executive Director, VIBHA –VANI	
	Vision & Mission – Shri. A Jayakumar, Secretary General, Vijnana Bharati	
	Inauguration and Guest of Honour - Prof. Ramesh Chand, member, Niti Ayog,	
	Vote of Thanks: Dr. Sunil Chaturvedi	
11:30 – 12:00	Tea	
12:00 – 13:30 (Technical Session-1)	<p>Chair - Dr. Roshan Lal, Member, VIBHA –VANI</p> <p>Key Note : Key Note on Skill India Entrepreneurship Mainsh Kumar, MD & CEO, NSDC, New Delhi</p> <p>Presentation : Digital India : Shri. John G, Director-National Institute of Electronics and Information Technology Chennai Centre, ISTE.</p>	<p>Presentation : Science for Masses Dr. D. K. Aswal, Director, NPL</p> <p>Presentation : Entrepreneurship & Women Empowerment Swathi Bondia, Director CLAP Campus, Bangalore</p>
13:30 – 14:30	Lunch	
14:30 – 16:30 (Technical Session-2)	<p>Chair : Dr. Sonal, VIBHA –VANI, Indore</p> <p>Key note: Alternate Energy Dr. Shailendra Shukla, Executive Director, Haryana Renewable Energy Development Agency</p>	<p>Presentation : Youth Empowerment Kiruba Karan, Youth Icon Award Winner</p>
	<p>Presentation : Swasth Bharath Dr. Darez Ahamed Mission Director (NHM) State Health Society, Government of Tamil Nadu</p>	
	<p>Presentation : Swach Bharat Dr. D.S. Shyni, Project Director, VIBHA</p>	

16:30 – 17:00	Tea
17:00 –18:00	Panel discussion on Flagship Themes for New India & Role of Social Organisations in Transforming India
18:30 – 19:30 (Interactive Session - 1)	Short Fillm Show
Day 2- October 15, 2017	
09:30 –11:30	Chair - Dr. Subhash Tamboli, AFARM, Pune
	Keynote - Dr. Rajendra Kumar, Director General, UP Council of Agricultural Research
	Special Address : Shri Subash Palekar, Pune
	River Rejuvenation Shri. Himanshu Kalra, COO, AOL, Bangalore River Harvesting : Dr. Shekhar Raghavan, Director, Rain Centre Chennai
11:30 -12:00	Tea
12:00 -13:30 (Interactive Session-2)	Presentations on Flagship Themes for Transforming India
	Chair: – Dr. Shailendra Sharma, Principal, Adarsh Institute of Management & Science Special Address : Gayathri. V, ICRA, Bangalore
13:30 – 14:30	Lunch
14:30 – 16:30 (Interactive Session -3)	Panel Discussion on Transforming India - Challenges & Opportunities
16:00 – 17:30	Valedictory Function: Guest of Honour: Dr. Vijay Bhatkar, Chairman, Vijnana Bharati Vote of Thanks: Dr. Balachandran, IMD, Chennai



WOMEN SCIENTIST & ENTREPRENEUR'S CONCLAVE

October 15-16, 2017

Venue: TAG Auditorium, Anna University

Co-ordinators:

Dr. Renu Swarup, DBT

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Dr. G. Latha, NIOT

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Dr. Shiny DS, VIBHA

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WOMEN SCIENTIST & ENTREPRENEUR'S CONCLAVE

October 15-16, 2017

As a unique programme of IISF 2017, a Women Scientist & Entrepreneur's Conclave titled "**Game Changers Driving Science for New India**" would be organized to promote and encourage science education and entrepreneurship among the young women. The aim of the programme is to develop interest among women in the field of science and technology and entrepreneurship and also explore new vistas of opportunities. This conclave will be organized at TAG Auditorium, Anna University, Chennai. The Conclave would provide a platform for engaging, connecting and networking among young women scientists and entrepreneurs to hold discussions and find solutions to some of the common challenges and problems being faced in their field of activities. The participants are drawn from science, technology, engineering and allied disciplines and entrepreneurs in Science & technology.

The focus of the Conclave would be on following thematic topics – 1) Women in cutting edge Science & Technology 2) Challenges for taking Science as a Career & Opportunities for Scientists and Entrepreneurs 3) "Budding Women Scientists to share their "The excitement of Science" and Journey of the Women Entrepreneurs – where leading and successful Women Entrepreneurs in India will share their Journey on Entrepreneurship.

The salient features of the Women Scientist & Entrepreneur's Conclave are:

Session 1: Women in cutting edge Science & Technology

The Session will have a lead talk followed by sharing of experiences by renowned Women Scientists and Technocrats in India. The session will also include a discussion / interaction part where participants can discuss and interact with the experts.

Session 2: Panel Discussion: Game Changers Driving Science for New India

This Session will be a panel discussion, focussing on:

- What are the challenges for taking science as a career?
- What are the opportunities for women in Science, Technology and Entrepreneurship?

Leading women Scientists and Entrepreneurs will be taking part in this session to discuss on the challenges, opportunities and options for taking science as a career for the young women.

Session 3: "Budding Women Scientists" - The Excitement of Science.

The most exciting session of this conclave is this session, where young scientists from various renowned Research Institutes, scientific organizations share their experience and how exciting it is to take science as a career and the challenges they faced and how they overcome all the hurdles and succeeding in their career.

Session 4: Journey of the Women Entrepreneurs

This last technical session of the conclave will focus on the talks by the successful Women Entrepreneurs. They will share, in addition to the challenges and opportunities, also the mantra of success to the young generation and may motivate them to take up entrepreneurship.

5. Poster and Exhibition

An Exhibition and Poster session also forms part of the conclave for researchers/scientists to showcase their work and entrepreneurs to showcase their products/activities through stalls.

This Conclave will pave way for creation of a strong generation of S&T leadership that can accelerate change collectively for a New India.

The conclave will also have lead speakers in various fields from different organizations who are role models for the younger generation of women. Besides, the above, the Conclave would be hosting more than 300 Scientists/Researchers/ Entrepreneurs from India. The Conclave aims at building new peers of young students and women to take up Science and Technology as a career and also for entrepreneurship in this field. This Conclave will pave way for creation of strong generation of S&T leadership that can accelerate change collectively.

In the Exhibition, women scientists, researchers and entrepreneurs will be getting an opportunity and platform to showcase their work through posters and exhibits respectively.

WOMEN SCIENTIST & ENTREPRENEUR'S CONCLAVE

October 15-16, 2017

Venue: TAG Auditorium, Anna University

Day – 1 (October 15, 2017)	
Time	Program
08:30 – 10:00	Registration
10:00 – 11:30	<p>Inauguration</p> <p>Welcome by Dr. RenuSwarup, Sr. Adviser, Department of Biotechnology, Ministry of Science and Technology</p> <p>Key note addresses</p> <p>Dr. Manju Sharma, Former Secretary, Department of Biotechnology, Ministry of Science and Technology</p> <p>Dr. Sowmya Swaminathan, DG, ICMR</p> <p>Address by Prof. K. VijayRaghavan, Secretary, Department of Biotechnology</p> <p>Inaugural speech by the Hon'ble Minister of Science & Technology and Earth Sciences, Environment, Forest & Climate Change</p> <p>Dr. Harsh Vardhan</p> <p>Vote of thanks</p> <p>Dr. G. Latha, Sci 'F', NIOT, Chennai</p>
11:30 – 12:00 12:00 – 14:00	<p>Inauguration of Exhibition by Women Scientists & Entrepreneurs and Tea</p> <p>Women in cutting edge Science & Technology</p> <p>Chair & Lead Speaker – Dr. Swati Basu, Former Scientific Secretary, Office of the Principal Scientific Adviser to Government of India</p> <p>Presentations by Women Scientists in various fields</p> <p>Space- Dr. Ritu Karidhal, Deputy Operations Director – MOM, Scientist-'SG', ISRO Satellite Centre</p> <p>Oceans- Dr. Purnima Jalihal, Scientist G and Head of Energy and Freshwater Programme of NIOT</p> <p>Biotech- Dr. Vijayalakshmi Ravindranath, Professor,</p>

	Centre for Neuroscience, Indian Institute of Science, Bangalore. Geoscience- Dr. Archana Bhattacharya (Former director, Indian Institute of Geomagnetism, Bombay)
1400 – 15:00	Lunch
15:00 – 16:30	Panel Discussion: Game Changers Driving Science for New India Panel will focus on: What are the challenges for taking science as a career. What are the opportunities for women in Science, Technology and Entrepreneurship. Session Moderator: Dr. Sudha Nair , Women Biotechnology Park, Chennai. Panelists: Dr. Gagandeep Kang , Director, THSTI, Gurgaon Dr. Rohini Godbole , IISc, Bangalore Dr. Atya Kaple , NEERI, Nagpur Mrs. Revathi Kasturi , LAQSH Job Skills Academy Pvt. Ltd Dr. Radha Rangarajan , Vitas
16:30 – 17:00	Tea
17:00 – 18:00	Visit to stalls and interaction with Scientists and Entrepreneurs
Day – 2 (October 16, 2017)	
Time	Program
09:30 – 11:00	Presentation By: “Budding Women Scientists”- The Excitement of Science. Moderator – Dr. Atya Kaple , NEERI, Nagpur. Young Scientists from DBT- Dr. Inderjeet Kaur Bachhal, ICGEB, New Delhi DRDO- Dr. Swati Verma, DRDO DAE – Dr. Sunita N. Sonavane MoES- Ms. Divya David T, NCAOR, Goa DST, CSIR,
11:00 – 11:30	Tea
11:30 – 12:30	Journey of the Women Entrepreneurs Talk by leading women entrepreneurs Moderator & Lead Speaker - Dr. Deepanwita Chattopadhaya , Chairman & CEO of IKP Knowledge Park Dr. Kavita Iyer Rodrigues , Zumutor, Bangalore
12:30 pm – 13:00	Concluding Session Opening Remarks and Summary of sessions: Dr. Suraksha S. Diwan , Scientist 'D', DBT Address : Dr. Renu Swarup , Sr. Adviser, DBT & MD, BIRAC Concluding Address and Distributions of Prize by Dr. Madhavan Nair Rajeevan , Secretary, Ministry of Earth Sciences Vote of Thanks Dr. D.S. Shyni , Director Projects & Training, Vijnana Bharati, New Delhi.



NATIONAL LEVEL COMPETITION : IDEAS FOR NAV BHARAT NIRMAN

October 15, 2017

Venue: Pannikar Hall, NIOT

Co-ordinators:

Prof. Sheetal Shinkhade, MSU, Baroda

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Dr. M.V. Ramanamurthy, MoES-ICMAM

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NATIONAL LEVEL COMPETITION : IDEAS FOR NAV BHARAT NIRMAN

October 15, 2017

The 3rd India International Science Festival (IISF 2017) will unfold at Chennai from October 13 -16, 2017. IISF 2017 organized by Ministry of Earth Sciences, Ministry of Science and Technology in collaboration with Vijnana Bharati (VIBHA).

This event is hosted by National Institute of Ocean Technology (NIOT) at IIT Madras, Anna University, CSIR – CLRI and CSIR - SERC.

NATIONAL LEVEL COMPETITION

The competition is primarily aimed to involve the common masses to improve their scientific understanding, temperament and appreciation towards various Indian achievements in the field of Science & Technology. It provides a platform to the young scientists, students, technocrats for exchange of knowledge and ideas. IISF supports Government’s flagship programs like Swachh Bharat, Digital India, Smart City, Swasth Bharat etc.

Following the footsteps of our former President of India Dr. APJ Abdul Kalam’s vision 2020 for Bharat Nirman, IISF 2017 is organizing a National Level Competition with the theme “Ideas for Nav Bharat Nirman”

Three socially relevant challenges faced by the society across the nation will be posed before the general public for deriving the most feasible solutions.

Total 217 solutions are received by the competitors, out of that 21 teams are called at IISF 2017 to present.

National Level Competition: IDEAS FOR NAV BHARAT NIRMAN

October 15, 2017

Venue: Pannikar Hall, NIOT

Date and Day	October 15, 2017, Sunday
Time	10.00 am to 3.00 pm (Lunch break- 12.30pm to 1.30pm)
Venue	NIOT, Pannikar Hall



SPECIAL THEMATIC SESSION ON - DEEP OCEAN RESEARCH

October 16, 2017

Venue: Vivekananda Auditorium, Anna University

Co-ordinators:

Dr. S. Ramesh, NIOT

Mob: +91 9445567346

SPECIAL THEMATIC SESSION ON DEEP OCEAN RESEARCH

October 16, 2017

The least understood last frontier of the earth namely "deep-sea" supports the largest biosphere on earth, modulates the global climate and contains vast natural resources. As a peninsular India, with long coastline of 7500 km and two island territory of Andaman & Nicobar and Lakshadweep islands in Bay of Bengal and Arabian Sea respectively, India's role in Indian Ocean (73 Million Sq.km of area with maximum water depth of 5500 m) is strategically very critical apart from utilization of living and non-living ocean resources.

Much of the seafloor and its habitats remain unexplored and unmapped, yet, as we learn more, we are beginning to realize that the seafloor is a dynamic environment in which even the ecosystems themselves can change due to external influences. Thus, today scientists are increasingly using platforms such as research vessels and submersibles to send specialized laboratories to the deep seafloor in order to continuously observe these remote areas that are so important for life on Earth.

The ocean absorbs 90% of the extra heat trapped by anthropogenic greenhouse gas emissions, with 30% of this being stored at depths >700 m. Hence understanding the deep ocean temperature changes will give clue about the climate variables in long term perspective. The deep ocean has a key role in the sequestration of heat and carbon, with linkages to the upper layers of the ocean and atmosphere through vertical mixing, species migrations and particulate sinking, making it critical to analysis of oceans role in climate mitigation and adaptation. It is also important to understand deep sea geo-hazards such as earthquakes, turbidity currents, volcanic eruptions and island collapses, fluid venting and gas hydrate dissociation and tsunamis that affect offshore infrastructure or indirectly threaten coastal human communities – often areas of dense Indian population. A sound knowledge of biodiversity is essential to understand the scale and patterns of ecosystem functioning on deep-water margins. The role of invertebrate-bacteria symbioses in energy transfer is debatable to understand the facts behind it and could play a key role in supporting microbial life over long term in adapting to extreme habitat in deep oceans.

Apart from the living and non-living resources, with suitable technological advancement potential of ocean water usage to drinking purposes is gaining more relevance due to drinking water crisis and the tapping the vast energy potential of ocean in different forms are important to reduce carbon foot prints to atmosphere and to reduce the risk of nuclear waste disposal. The complex nature of the deep-sea environment requires a multidisciplinary approach including physical, chemical, biological, geological and microbial processes to understand it well and critical importance will be the involvement of engineers to develop the required infrastructure and equipment. To understand and utilize the deep oceans it is imperative to use due means of technology since the remoteness of the deep sea demands heavy reliance to technologies to move forward with forefront research.

To understand and popularize the importance of deep ocean research in our country, an exposure session is planned during India International Science Festival (IISF) 2017 to attract the younger scientific community towards deep sea research for its sustainable utilization.

Following two plenary talks are planned by targeting the general audience of IISF 2017.

- Blue Economy
- Opportunities and Challenges in deep ocean research

Participants are encouraged to visit the exhibition stall for deep ocean research where the technologies developed are show cased along with deep sea visuals collected during the mineral exploration expeditions conducted by Indian scientific community using the technologies developed in the country. Interested student/research community will be taken to National Institute of Technology, Chennai for exposing to the technologies developed for deep ocean research purposes.

DEEP OCEAN RESEARCH SESSION

October 16, 2017

- Deep ocean research – Gallery on October 14 - 16, 2017 , Venue – NIOT exhibition stall, Expo ground.
- Student – Scientists interaction by connecting Indian Antarctic base station at Bharathi
- Deep ocean exploration underwater visuals (Video)
- Technology demonstration visuals
- Posters explaining the activities undertaken in deep ocean research
- Technology model display

DEEP OCEAN RESEARCH SESSION

October 16, 2017

Venue : Vivekananda Auditorium, Anna University

Time	Program Schedule
10:00	Inviting Chief Guests to Dais
10:00 - 10:05	Lighting of traditional Lamp
10:05 - 10:06	Invocation
10:06 - 10:10	Welcome Address by Dr.G.A.Ramadass, Head – Deep Ocean Technology – NIOT & Co-Convener-IISF 2017
10:10 - 10:20	Introduction about Ministry of Earth Sciences by Dr. M.Rajeevan, Secretary – Ministry of Earth Sciences, Government of India & Chairman – IISF 2017
10:20 - 10:30	Opening Remarks by Hon'ble Minister for Earth Sciences
10:30 - 11:15	Plenary Talk on Blue Economy by Dr M.A.Atmanand, Former Director – NIOT & Convener – IISF 2017
11:20 - 12:00	Plenary Talk on Opportunities and Challenges in Deep Ocean Research by Dr. S.S.C.Shenoi, Director – INCOIS & NIOT
12:00	Live interaction with Scientists living in Indian Antarctic base station - Bharati
	Vote of thanks

Exposure to technologies developed at National Institute of Ocean Technology (NIOT – MoES), Chennai
Visit to NIOT on October 15, 2017 for maximum 200 to 250 researchers on registration at Deep ocean research gallery

- Underwater sub components
- Integration Bay deep sea crawler system and Hyperbaric chamber test facility
- Submersible Integration Facility with Unmanned vehicle (ROUB 6000, PROVe 500, Deep Sea Drill,
- Mockup Personnel Sphere for Manned Submersible etc)
- Acoustic Test Facility
- Integration Bay for Data Buoy and Shore station for met-ocean and Tsunami data reception and monitoring
- Marine Biotechnology laboratory



CULTURAL PROGRAM

October 13-15, 2017
Venue : Anna University Ground

Co-ordinators:

Dr. Purnima Jalihal
Ph. No.: +91-9444399824

CULTURAL PROGRAM

October 13-15, 2017

October 13, 2017, 6.30 pm

Samudra Manthan or Churning of the Oceans

Samudra Manthan is a mythological event well known throughout India and chosen as the first event as it suits perfectly the theme of the festival, i.e. Oceans. This theme shall be presented in the classical south Indian dance-form Bharatanatyam. The artistes and live musicians from Kalakshetra shall present this theme in the traditional south Indian classical form.

Presented by Kalakshetra Foundation, Chennai (Autonomous body under Ministry of Culture, Government of India)

October 14, 2017, 6.30 pm

Traditional Tamil Art Forms

Folk dance forms unique to Tamilnadu shall be presented on this evening by several folk artistes from the various districts of Tamilnadu. They will present Karagam, Kavadi, Oyilattam, Silambattam, Kaaliattam, Kaisilambattam, folk songs and much more. This event is expected to give a taste of the local folk art-forms to the pan-India audience.

Presented by Tamil Nadu Rural Arts Development Centre

October 15, 2017, 6.30 pm

Rhythm of the West

The multimedia show stands at the junction of literature and music. The show also attempts to relate the western rhythm with Indian music. The presenter will explore beauty of all musical genres of the West while keeping a sociological angle alive at all junctures.

Presented by Dr. Ashutosh Javadekar

The show will be preceded by a solo Bharatanatyam recital.

**October 16
15:30 - 17:00**

**VALEDICTORY
FUNCTION**

**CHIEF GUEST
Hon'ble Shri Venkaiah Naidu
Vice President of India**



Supported by



Ministry of New &
Renewable Energy
Govt. of India



Ministry of Environment,
Forests & Climate Change,
Govt. of India



Ministry of
Rural Development
Govt. of India



Press
Information Bureau
Govt. of India



Anna University



ICAR



ICMR



DRDO



ISRO



NBA



NIF



AICTE



CLRI



SERC



DAE



STPI



VIGYAN PRASAR

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