



INDIA INTERNATIONAL SCIENCE FESTIVAL 2018

OCTOBER 5-8, 2018

Indira Gandhi Pratishthan, Lucknow

PROGRAMME GUIDE



विज्ञान विभाग
**Ministry of Science
and Technology**



भू-विज्ञान विभाग
**Ministry of
Earth Sciences**



**Vijnana
Bharati**

“जय जवान, जय किसान, जय विज्ञान”

श्री अटल बिहारी वाजपेयी



_____ A TRIBUTE TO _____
SHRI ATAL BIHARI VAJPAYEE

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Scientist-E, DBT

Sh. Praveen Ramdas

National Secretary, Vijnana Bharati

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डॉ. हर्ष वर्धन
DR. HARSH VARDHAN



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

MINISTER
SCIENCE & TECHNOLOGY AND EARTH SCIENCES
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NEW DELHI - 110001

MESSAGE

Emphasizing the role of technologies and innovation, India has declared 2010-2020 as the "Decade of Innovation". By 2030 India is aiming to be the world's leading nation in S & T. As the fastest growing economy with a steady growth rate, with the advantages of a large demographic dividend and huge talent pool, India aspires for sustainable and inclusive growth. India is facing various challenges and opportunities some of these important challenges are in the key sectors of clean air & water, food, environment, climate, security and healthcare. It is important to translate the scientific knowledge into innovations through start-ups and industry so as to facilitate India to achieve inclusive and sustainable growth in coming decades. This goal can be achieved through developing scientific temper among the masses and by strengthening India's science and technology and their basic research further.

The series of India International Science Festival (IISF) is an integral part of India's long term vision in developing and widening the spectrum of scientific temper for sustainable development and new technological innovations in India & abroad. It aims to build a strategy for rural India through the advancement of science & technology. Moreover, it also aims to provide a platform to young students, scientists & technocrats from across India for exchange of knowledge and ideas and also supporting flagship programs like 'Swachh Bharat Abhiyan', 'Swasth Bharat Abhiyan', 'Make in India', 'Digital India', 'Smart Villages', 'Smart Cities', 'Namami Gange', 'Unnat Bharat Abhiyan', etc. initiated by the Hon'ble Prime Minister of India.

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 has been organized thrice in the year 2015, 2016 & 2017 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 2018, therefore, aims to communicate science & technology to the masses and search for their partnership in deploying it.

I appreciate the collaborative efforts of the Ministries of the Science & Technology & Earth Sciences together with Vijnana Bharati in organizing the 4th edition of IISF.

I invite CDRI, NBRI, Birbal Sahni Institute of Palaeosciences and IITR as well as R&D institutions in Lucknow to involve in organizing IISF 2018 for making an extraordinary and unforgettable 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)



मुख्य मंत्री
उत्तर प्रदेश



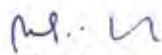
योगी आदित्यनाथ

संदेश

मुझे यह जानकर अत्यन्त प्रसन्नता की अनुभूति हो रही है कि इस वर्ष भारतीय अन्तर्राष्ट्रीय विज्ञान महोत्सव (आई0आई0एस0एफ0-2018) का आयोजन उत्तर प्रदेश में किया जा रहा है।

सीमित संसाधनों के बावजूद भारत ने विज्ञान तथा प्रौद्योगिकी के क्षेत्र में महत्वपूर्ण उपलब्धियां हासिल की हैं। देश और प्रदेश की समग्र प्रगति एवं समृद्धि के लिए समाज विशेषकर युवा पीढ़ी में वैज्ञानिक सोच का विकास आवश्यक है। इसके दृष्टिगत प्रदेश में भारतीय अन्तर्राष्ट्रीय विज्ञान महोत्सव का आयोजन एक सराहनीय प्रयास है। मुझे विश्वास है कि विज्ञान महोत्सव के आयोजन से राज्य में विज्ञान एवं तकनीकी के उत्तरोत्तर विकास के असीम अवसर उत्पन्न होंगे।

भारतीय अन्तर्राष्ट्रीय विज्ञान महोत्सव-2018 के सफल आयोजन हेतु मेरी हार्दिक शुभकामनाएं


(योगी आदित्यनाथ)



डॉ. रेणु स्वरूप
DR. RENU SWARUP



सचिव
भारत सरकार
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MESSAGE


Science and Technology has tremendous power to contribute to the economic development and growth of society. Science and Technology offers enormous solutions for addressing societal problems, it is important to have a platform for convergence of all the stakeholders to discuss the contributions of science & technology to Society.

The India International Science Festival (IISF) has created such a platform which is an integral part of India's march to create a better and developed society through the impact of science & technology on the lives of the common man. The Ministry of Science & Technology and Ministry of Earth Sciences are organizing the 4th IISF at Lucknow, Uttar Pradesh in October, 2018 coordinated by Department of Biotechnology, Ministry of Science & Technology together with Vijnana Bharati, the theme for this year's IISF is **"Science & Technology: Building Partnerships, Impacting Society"**. It will be an extraordinary amalgamation of scientific ideas and innovations and bring together students, young scientists, researchers, key experts, technocrats, policy makers, industry leaders and entrepreneurs both national & international.

The Global Indian Science & Technology Stakeholders Meet (GIST), Industry Academia Meet and Science & Technology for Harnessing Innovations (SATHI)- A National startup & entrepreneurship summit are some of the important events planned. A "Foreign Ministers' conclave" & "State S&T Ministers' conclave" would be held as a part of IISF 2018. Through this festival we hope to bring all stakeholders together to discuss the contributions of Science & Technology to the flagship programmes of the Government. Inculcating the curiosity of Science amongst school children and engaging science teachers across the country is a unique feature of the IISF 2018. The special role of Women Scientists and Entrepreneurs in the shaping the scientific growth trajectory will be another highlight of this Festival. There will be a special effort to engage with stakeholders of the North East and also the Aspirational districts.

We would like to sincerely thank our Hon'ble Minister Science & Technology, Earth Sciences, Environment, Forests and Climate Change Dr. Harsh Vardhan for his constant guidance, encouragement and vision which has been instrumental in the planning of this event. On behalf of the organizing Ministry, I look forward to the cooperation and support from all Departments and Ministries and complete support from the State Government of Uttar Pradesh and all national laboratories and academic institutions in Lucknow to make this large festival a huge success.

We look forward to welcoming our entire scientific research fraternity and all stakeholders at IISF, Lucknow.


(Renu Swarup)



Dr. Vijay P. Bhatkar
National President
Vijnana Bharati



VIJNANA BHARATI

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MESSAGE

Knowledge of science quenches the thirst of curious minds and advancement in technology provides for the needs of man. To make this knowledge available, exchange and encouragement of ideas is necessary. Young minds need to be ignited and inspired. India International Science Festival is one such attempt.

After the success of IISF previously, this year we are hoping to create a bigger impact than the last three years. Programmes like Science Village open the doors of latest advancements and scientific knowledge to those students who are unreached and need this exposure the most. Young scientists, especially female scientists will get a platform to showcase their work in the Young Scientists' Conference and Women Scientists' and Entrepreneurs' Conclave. International and national science communicators will be discussing the importance and the creative means of public engagement in the field of science in the International Science Literature and Film Festival. I believe that useful solutions to combat environmental pollution and climate change will be a result of the Green Good Deeds and Clean Air programmes. There is so much to feel excited about in this year's IISF. The Mega Science and Technology Expo is promising and is definitely a wonderful opportunity for the public to learn about the achievements of the R&D institutes of our country.

It is certain that India's voyage towards scientific self reliance shall receive a sturdy leap with the joint participation of all the stakeholders including the common masses.

I would like to sincerely thank the Hon'ble Minister, Science & Technology, Earth Sciences, Environment, Forest and Climate Change, Dr Harsh Vardhan Ji for his constant guidance and support.

I congratulate on behalf of Vijnana Bharati everyone who is a part of this celebration and for their efforts in working towards this historic event.

Dr. Vijay P. Bhatkar

National President, Vijnana Bharati

About India International Science Festival

Science festivals are vibrant expression of the cultural importance of science and technology of a nation. It gives scientists, inventors and researchers a chance to interact closely with students and citizens from all walks of life. Science festivals offer many different forms of engagement such as lectures, dialogues, panel discussions and debates; through hands-on demonstrations, exhibitions, and workshops; in form of science-related theatre, cafes, music, and stand-up comedy. The goal of the science festivals is to engage citizens with science in ways that are inspirational and empowering. Science festivals are the inspiring celebrations of the fascinating world of science and technology.

India International Science Festival (IISF) launched in 2015 is a celebration to promote Science and Technology and demonstrate how science can lead India towards a developed nation within a short span of time. The aim is to engage public and show how Science, Technology, Engineering and Mathematics (STEM) provide us with the solutions to improve our lives. Ministry of Science and Technology and Ministry of Earth Sciences in association with Vijnana Bharati (VIBHA) has created a unique platform of IISF which intends to inspire curiosity and make learning more rewarding.

The goal of the Science festival is to help youth develop 21st century skills, with a focus on scientific knowledge, creativity, critical thinking, problem-solving and teamwork. One of the long-term objectives is to encourage students to study and work in various emerging scientific fields. The focus on the myriad faces behind some of the fascinating discoveries will enthuse masses with scientific attitude and will give us the power to create new possibilities. IISF is a science outreach marathon not a science sprint thereby propelling the scientific attitude for the countless years to come.

IISF 2018 is being coordinated by Department of Biotechnology (DBT), and the nodal agency is National Institute of Immunology (NII), Delhi.

Name of Consultants for Different Event

S. N.	Event Name	Name of Consultant
1	Global Indian Science & Technology Stakeholders Meet	Sh. Arun Pandey
2	Students Science Village: Reaching the Unreached	
3	Agriculture Conclave	
4	Green Good Deeds	
5	S & T Mission: A key Stakeholders & Partners Summit	Sh. Navin Prasad
6	National Social Organisations& Institutions Meet	
7	Clean Air Campaign	
8	Women Scientists' & Entrepreneur Conclave	Ms. Meetali Bharti
9	Industry Academia Interaction Meet	
10	North East Students Conclave	
11	Young Scientists' Conference	Sh. Amit Singh
12	Science & Technology for Harnessing Innovations	
13	Health Conclave	
14	Guinness World Records	
15	National Science Teachers' Congress	Sh. Suraj Pandey
16	Crafts & Artisans demo	
17	Nav Bharat Nirman	
18	International Science Literature & Film Festival	Ms. Sonal Katyal
19	Mega Science, Technology & Industry Expo	
20	Outreach Program	
21	Students Engineering Models Competition	Sh. K. V. Madhavan
22	Face to Face with New Frontiers in Science	
23	Overall Event Co-ordination	Sh. Rajat Aggarwal

Global Indian Science & Technology Stakeholders' Meet (GIST Meet)

5-6 October, 2018 • Venue: Pluto Hall, IGP

COORDINATORS:

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Ms Anju Bhalla
Joint Secretary, DST
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Prof. Y K. Gupta, Former Dean,
AIIMS & Principal Adviser, THSTI
Ph. No. 98688 68457

The eminent group of Indian Scientists & Technocrats' diaspora would be invited for brain storming sessions on critical areas that shall contribute for the development of India. As India is making rapid economic progress, the way for inclusive development covering the larger fraction of our population is the prime objective of this event.

PROGRAMME SCHEDULE

DAY 1

5 OCTOBER, 2018

01:00 - 2:30	Interactive Lunch
02:30 - 5:30	<p>Welcome : Prof. Y. K. Gupta (Moderator)</p> <p>Background of GIST: Sh. Jayant Sahastrabudhe</p> <p>Address by: Dr. Renu Swarup, Secretary DBT</p> <p>Address by: Dr. Madhavan Nair Rajeevan, Secretary, MoES</p> <p>Inaugural Address by: Dr. Harsh Vardhan, Hon'ble Minister S&T and ES</p> <p>PANEL DISCUSSION -1</p> <p>Theme: Potential Role of NRI Scientists in Development of India</p> <p>Trigger talks: (15 Minutes each)</p> <ol style="list-style-type: none">1. Dr. Vijay Saraswat, USA2. Prof. Suresh K. Bhargava, Australia3. Dr. Amitabh Prakash, New Zealand4. Prof. Anil Gulati, USA5. Dr. Balram Bhargava, DG-ICMR, New Delhi6. Sh. Adam Szigeti, Dy. State Secretary, Ministry of Innovation and Technology, Hungary <p>Open house discussion (60 Minutes)</p>

DAY 2

6 OCTOBER, 2018

Time: 10:00 - 01:00

10:00 - 01:00	<p>PANEL DISCUSSION -2</p> <p>Theme: Positioning India as a Global leader in Science and Technology: A Catalytic Approach by GIST</p> <p>Welcome by Prof. Y. K. Gupta (Moderator)</p> <p>Philosophy behind GIST Sh. Jaykumar</p> <p>Address by: Prof. Ashutosh Sharma, Secretary, DST</p> <p>Key note talk by: Prof. K. VijayRaghavan, PSA to Gol</p> <p>Trigger talks: (15 Minutes each)</p> <ol style="list-style-type: none">1. Prof. Ramesh Jain,USA2. Sh. Anil Srivastava,USA3. Dr. Mone Zaidi,USA4. Dr. Sarvajna Dwivedi,USA5. Dr. Manu Prakash,USA <p>Open house discussion (60 Minutes)</p> <p>Concluding Remark: Dr. Renu Swarup, Secretary, DBT</p>
1:00 - 2:00	Interactive Lunch

Science & Technology Mission: A Key Stakeholders and Partners Summit

7 - 8 October, 2018 • Venue: Earth Moon Hall-1, IGP

COORDINATORS:

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Prof Pramod K Verma

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The main goal of the “**Science and Technology Mission: A key Stakeholders and Partners Summit**” is to understand the impact of Science and Technology on National Missions, primarily on National Mission ‘Transforming India through Scientific & Technological Interventions’, including focus of individual states on this aspect. The event will have a series of scientific activities including invited talks by eminent scientists and policy makers and deliberations of S&T activities of State Councils. It will provide an opportunity to key stakeholders for showcasing their contributions through application of S&T.

The “**Science and Technology Mission: A key Stakeholders and Partners Summit**” is divided into the following thematic areas:

Theme 1: Presentation on Role plays by Institutions in development of S&T in States

This Session will have a keynote by the Directors/Head of the Institutions to deliberate on looking for S&T policy to be better connected to broader economic policy at the institutional and operational levels as well as linking S&T policy to institutional infrastructure, research funding, S&T investment, international research collaboration etc. at public-private-academia-industry sectors.

Theme 2: Plenary Talks

The Session will have a Plenary Talks that will address fostering National S&T capacity and knowledge sharing through region specific approach for inter-regional collaboration and cooperation.

Theme 3: Deliberations/Presentation by Director Generals/ Directors of State S&T Councils on the Councils’ activities of last two years

This session will provide an opportunity to see how S&T can impact the National Missions and to also to analyze the focus of individual states on these. The deliberations will pave way to align the scientific and

technological priorities according to the policies of State Governments, augmenting support and active participation of the States in S&T development and to evolve joint action plans of mutual interest.

Theme 4: S&T Ministers Conclave: Way forward State S&T Councils play the role in development of S&T in States

This Conclave will provide the opportunity to S&T Ministers of various States & Union Territories to interact with other stakeholders and discuss the possible interventions of S&T in achieving the objectives of various National Missions.

PROGRAMME SCHEDULE

DAY 1	
7 OCTOBER, 2018 (Sunday)	
Time	Activities
09:45 - 10:15	Registration
10:15 - 11:15	Inauguration Session
10:15	Arrival of Dignitaries
10:16	Lighting of Lamp
10:16 - 10:18	Invocation
10:18 - 10:45	Welcome Address: Dr. Neeraj Sharma , Adviser, DST: 'Expectations from Conclave deliberations'
10:45 - 11:10	Inaugural Address: Dr. Harsh Vardhan , Hon'ble Minister of Science and Technology, & Earth Sciences, and Environment, Forest and Climate Change
11:10 - 11:15	Vote of Thanks: by Er. Ravinder Gaur , Scientist-D, TDT-SSTP, Department of Science & Technology
11:15 - 12:00	High Tea
12:00 - 01:15	Presentation on Role plays by Institutions in development of S&T in States: (15 Minutes each) Dr. S. Barik , CSIR-NBRI, Lucknow Dr. R. K. Sinha , Director, CSIO, Chandigarh Dr. K. K. Singh , Director, CIAE Bhopal Dr. A. K. Misra , Vice Chancellor, GB Pant University Dr. M. K. Surappa , Vice Chancellor, Anna University, Chennai
01:15 - 02:30	Lunch Break

02:30 - 03:00	Plenary Talks: (15 Minutes each) Dr. Pawan Kumar Agarwal , ADG, ICAR, New Delhi Dr. S. Solomon , Vice Chancellor, Chandra Shekhar Azad University of Agriculture and Technology, Kanpur
03:00 - 05:00	Deliberations/Presentation by Director Generals/ Directors of Some State S&T Councils on the Councils activities of last two years Punjab, UP, MP, Assam, Arunachal Pradesh, Tamilnadu, Karnataka, Gujarat
05:00 - 05:30	Open Forum Discussion

DAY 2

8 OCTOBER, 2018 (Monday)

Time	Activities
S&T Ministers Conclave This Conclave will provide an opportunity to S&T Ministers of all States & Union Territories to interact with other stakeholders and discuss the possible interventions of S&T in achieving the objectives of various National Missions	
10:00 - 12:30	Presentation & Way forward State S&T Councils play the role in development of S&T in States by: Meeting of S&T Ministers of various States Panel Discussion/Views of State S&T Ministers
12:30 - 01:00	Summit Concluding Remarks: Dr. M Rajeevan Nair , Secretary, MoES
01:00 - 01:15	Vote of Thanks Prof. Pramod K. Verma Ex-National Vice President, Vijnana Bharati , Delhi

North East Students' Conclave

7 - 8 October, 2018 • Venue: Pluto Hall, IGP

COORDINATORS:

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North East Students' Conclave will bring 200 bright students from NE Region along with 50 teachers, on a single platform to share their experiences and put forth the new dimensions of passion with science. This event shall help the participating students to broaden their horizon of knowledge about science, technology and scientific principles.

- Northeast Teachers' and Students Pedagogy Training session with eminent experts' viz. Padma Shri Dr. M.S. Sodha and Prof. Pramod Tandon will enhance their interest and temperament on Science and Technology.
- The visit to CSIR Labs and interaction with the eminent scientist as part of Outreach Programme of IISF shall fuel their curiosity.
- Northeast Development Plan Presentation (Students will present their ideas on development prospects of northeast region either by oral, poster, modal presentations.
- The conclave will conclude with Northeast Cultural Fest by the students.

PROGRAMME SCHEDULE

DAY 1

7 OCTOBER, 2018 (Sunday)

Time	Programme
09:00 - 01:00	Visit to CSIR Labs (CDRI) and interact with the scientists as part of OUTREACH PROGRAMME of IISF.
01:00 - 02:00	Lunch
01:30 - 02:00	Registration
02:00 - 03:00	Inauguration
02:00 - 02:05	Arrival of Chief Guest Dr. Harsh Vardhan, Hon'ble Union Minister for Science & Technology, & Earth Sciences, and Environment, Forests and Climate Change, Govt. of India
02:05 - 02:15	Welcome: Dr. Mohd. Aslam, Adviser, DBT, New Delhi

02:15 - 02:25	Address: Dr. T. Madhan Mohan , Consultant Adviser, NER-BPMC, DBT, New Delhi
02:25 - 02:35	Address: Sh. A. Jayakumar , Special Adviser, VIBHA
02:35 - 02:55	Inaugural Address: Dr. Harsh Vardhan , Hon'ble Union Minister
02:55 - 03:00	Vote of Thanks: Dr. Krishna Kumar , NECTAR, New Delhi
03:30 - 05:30	<p>Northeast Teachers' and Students Pedagogy Training session to enhance their interest and temperament on science and technology, with experts:</p> <ul style="list-style-type: none"> • Padma Shri Prof. M.S. Sodha, Former VC, Lucknow University and Devi Ahilya University, Indore • Padma Shri Prof. Pramod Tandon, CEO, Biotech Park, Lucknow • Prof. S. K. Srivastava, Vice Chancellor, NEHU, Shillong • Prof. H.C. Verma, Former Professor, IIT Kanpur <p>Panel Discussion</p>

DAY 2

8 OCTOBER, 2018 (Monday)

Time	Programme
09:30 - 01:00	<p>Northeast Development Plan Presentation in front of the Panel (Students will present their ideas on development prospects of northeast region either by speech with ppt or poster/model presentations.</p> <p>Members of the Panel: Experts of the institutions located in the North East Region of India</p>
01:00 - 02:00	Lunch
02:00 - 02:30	Northeast Cultural Fest
03:00 - 03:30	<p>Valedictory Address</p> <p>Prize Distribution of Poster/model Exhibition by Dr. Renu Swarup, Secretary, DBT</p> <p>Vote of Thanks – Dr. Vaishali Punjabi, Sc 'E', DBT</p>

Young Scientists' Conference

5 - 6 October, 2018 • Venue: Jupiter Hall & Neptune Hall, IGP

COORDINATORS:

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The main aim of Young Scientists' Conference is to provide an enabling ecosystem to young scientists/entrepreneurs/researchers (below the age of 40 years) where they can discuss and present their research findings and innovative ideas on the identified research themes. It will give an ample opportunity to the budding scientists to come up with interdisciplinary research models/programs keeping in view of national flagship programs such as Make in India, Digital India, Swachh Bharat, Swasth Bharat, Biodiversity and Environment and various Frontier areas in Science.

Young Scientists/Faculties/Ph.D. students from Universities, R&D Organizations, National Institutes, NGOs, Post-graduate colleges and Industries shall participate through nominations by the heads of the organizations or through direct participation.

The conference activities will be spread over two days (5th - 6th October, 2018) including plenary, oral and poster sessions on the mentioned themes, besides interactive panel discussions on entrepreneurship and various aspects related to career progression and opportunities for the young scientists.

PROGRAMME SCHEDULE

DAY 1

5 OCTOBER, 2018 (Friday)

Time	Programme
09:00 - 10:00	Registration (Jupiter Hall)
10:00 - 10:30	Inaugural Session (Jupiter Hall)
10:00 - 10:02	Arrival of Dignitaries
10:02 - 10:05	Lighting of Lamp
10.05 - 10.10	Welcome and Introduction of YSC: Dr. Meenakshi Munshi
10:10 - 10:15	Opening Remarks by Secretary, DBT
10:15 - 10:25	Inaugural Address: Hon'ble Union Minister S&T
10:25 - 10:30	Vote of Thanks: Dr. Ramesh V. Sonti, Director NIPGR

10:30 - 11:00	Break
11:00 - 01:00	Poster Session (Jupiter Corridor)
01:00 - 02:30	LUNCH
02:30 - 03:30	Plenary Session(Jupiter Hall), Chairman: Dr. Shekhar Mande
02:30 - 03:10	Plenary Talk: Dr. D. Balasubramanian , Res. Director LVPEI, Former Director, CCMB
03:10 - 03:30	Keynote address: Prof. G.R. Desiraju , IISc
03:30 - 03:45	Break
03:45 - 05:45	Technical Session (Jupiter Hall) Invited Talks by Young Achievers (Chairman: Prof. Anil Tripathi)
03:45 - 04:05	Prof. Kantesh Balani , IIT-Kanpur
04:05 - 04:25	Dr. Dhananjay Dendikuri , Founder-Achira Lab
04:25 - 04:45	Dr. C. Malla Reddy , IISER-Kolkata
04:45 - 05:05	Dr. Hardik Makkar , KIIT Incubator-BBSR
05:05 - 05:25	Dr. Arun K. Shukla , IIT-Kanpur
05:25 - 05:45	Dr. Nitin Sisodia , Founder-Sohum Innovation
04:00 - 05:00	Oral Presentation of selected Posters • Parallel Session
	Theme: Swachh Bharat Session Chair: Prof. Pallab Banerjee , IIT-KGP Venue: VIP Lounge: Earth
	Theme: Swasth Bharat Session Chair: Prof. P. M. Padole , Director, VNIT Venue: VVIP Lounge: Earth
	Theme: Make in India Session Chair: Dr. B. B. Jha , Director, CGCRI Venue: Earth Moon 2
	Theme: Digital India Session Chair: Prof. S. K. Tiwari , Raipur Venue: Earth Moon 3
	Theme: Biodiversity and environment Session Chair Prof. L.S. Rathore , Former DG IMD, Venue: Earth Moon 4
	Theme: Frontiers in Science Session Chair Dr. Tapas Kundu , Director, CDRI Venue: Earth Moon 5

DAY 2**6 OCTOBER, 2018 (Saturday)**

Time	Programme
10:00 - 12:00	Panel Discussion (Jupiter Hall) Opportunities for Career Development Moderator: Dr. Shailja Gupta, DBT Counsellors from EU nations-;DG, ICGEB
10:00 - 11:00	Panel Discussion (Neptune 2) Parallel Session Entrepreneurship Moderator: Dr. Taslim Arif Sd. (C-CAMP) Panelists: Dr. Girish Sahni, Ex-DG, CSIR, Dr. Dhananjay Dendikuri (Achira Labs), Prof. Mrutyunjay Suar (KIIT-Incubator), Dr. Sunil D. Dhole (Technorbital), Dr. Sandip Patil (E-spin nanotech)
12:00 - 12:15	Break
12.15 - 01.30	Valedictory Session: Session Chair: Vaidya Rajesh Kotecha, Secretary Ministry of Ayush
12.15 - 12.25	Chairman's remark
12:25 - 12:35	Guest of Honour: Dr. G. Satheesh Reddy , Chairman DRDO
12:35 - 12:45	Chief Guest: Prof. Sudhir K. Sopory , Former VC, JNU
12:45 - 01:30	Giving away of prizes for best three posters in each theme

Green Good Deeds

6 October, 2018 • Venue: Neptune Hall 1, IGP

COORDINATORS:

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Green Good Deed (GGD) is a social initiative launched by Hon'ble Minister for Environment, Forest and Climate Change, Dr Harsh Vardhan, during January 2018. The initiative is aimed to inculcate behavioural changes among the citizens of the country especially school students and encourage them to take up small environment friendly deeds to conserve nature and its resources.

The mission of this nation-wide initiative is to promote environmental conservation, sustainable use of resources, and promotion of environment friendly lifestyle. The range of GGD is infinite, from a small step of switching off lights when not in use to rain water harvesting. Each act which benefits the life of inhabitants of earth including plant and animal is considered as GGD.

This social movement has been accepted by BRICS nations during the Environment Ministers' meeting which took place during May 2018 in South Africa. The BRICS nations have agreed to include it in their agenda for their next meetings scheduled in Brazil and Russia respectively.

With an aim of global revolution with local impact GGD will help in the ongoing efforts across the country and internationally to protect, preserve, conserve, restore and revitalize "Mother Nature" by bringing in behavioral change among citizens of the country to realize the goal of Swachh India. The idea is to implement the environmental proceedings/decisions generated during International/Local meetings into action through individual/organizational efforts and recognition.

GGD is a platform wherein individuals/organizations will be encouraged to take up green deeds to fulfill their green social responsibility.

PROGRAMME SCHEDULE

DAY 1

6 OCTOBER, 2018

Plenary Session

Time	Program	
10:15 - 10:20	Inauguration of Exhibition by Hon’ble Minister for Environment, Forest and Climate Change	
10:20 -10:30	Visit to Exhibition counters by all officials concerned	
10:30 - 10:35	Inauguration of Plenary Session (Diya Lighting) by Hon’ble Minister for Environment, Forest and Climate Change and Hon’ble Chief Minister of Uttar Pradesh	
10:35 - 10:45	Felicitation of officials / resource persons on dais	
10:45 - 10:50	Inaugural address by Additional Secretary, Dr. A.K. Mehta	
10:50 - 11:00	Address by Secretary (EF&CC), Sh. C.K. Mishra	
11:00 - 11:15	Address by Hon’ble Chief Minister, Uttar Pradesh	
11:15 - 11:35	Address by Hon’ble Minister for Environment, Forest and Climate Change	
11:35 - 01:00	Address by Panel speakers	
15 minutes speech each	Panel Discussion	Panel Speakers
	• Environment conservation and Protection	Dr Anil Prakash Joshi, HESCO
	• Energy conservation	Sh. Abhay Bakre, DG Bureau of Energy Efficiency
	• Sanitation and Hygiene	Sh. Rajender Singh, Water Conservationist
	• Water Conservation	Prof C R Babu, University of Delhi Dr S P Yadav, Secretary Uttar Pradesh Biodiversity Board
1:00 - 1:05	Vote of thanks	
1:05 - 2:00	Lunch Break	
Exhibition		
10:15 - 10:20	Inauguration of Exhibition by Hon’ble Minister for Environment, Forest and Climate Change	
10:20 - 10:30	Visit to counters by all officials concerned	
10:30 - 01:00	Exhibition on the success stories under Eco-club programme, open to all visitors	

Agriculture Conclave

5 October, 2018 • Venue: Inaugural Hall, IGP

COORDINATORS:

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DDG (Ag Extension)

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Hon'ble Prime Minister has a vision of "doubling farmers' income by the year 2022", and the three key variables, namely, productivity gains, reduction in the cost of cultivation and remunerative price need to be addressed scientifically. In order to achieve this, the strategy platform focuses on sustainability of production, monetization of farmers' produce, re-strengthening of extension services, recognizing agriculture as an enterprise and enabling it to operate smoothly by addressing various structural weaknesses.

Agriculture Conclave will address the above-mentioned concerns through a conference and exhibition to be held during the India International Science Festival 2018. Diversification of agriculture, Animal & fisheries based enterprises, Natural Resource Management including organic farming, Post-harvest and value chain management and Mechanization including residue burning shall be addressed.

PROGRAMME SCHEDULE

DAY 1

5 OCTOBER, 2018

Time	Programme
10:00	Lamp lighting by all dignitaries
10:00 - 10:05	Welcome & overview by Dr AK Singh , DDG (AE), ICAR
10:05 - 10:10	Sh. Jayakumar, Special Adviser, Vijnana Bharati
10:10 - 10:20	Special Address by Dr T Mohapatra , Secretary DARE & DG, ICAR
10:20 - 10:30	Special address by Minister of Agriculture, Uttar Pradesh
10:30 - 10:55	Inaugural Address by Minister of Agriculture & FW, GOI
10:55 - 11:00	Vote of Thanks by Dr Mohd. Aslam , DBT

Technical Session-I: Enhancing income through diversification		
Moderator: Dr. Gopal Krishna, Dir. CIFE		
	Panel Discussion	Panel Members
11:00 - 12:00	Cropping Systems Fisheries Enterprises Dairy/ Veterinary Enterprise Horticulture Production Dairy, Veterinary and Fisheries based enterprises	Dr Bijendra Singh, Dir. IIVR, Varanasi Dr RK Singh, Dir. IVRI Dr RRB Singh, Dir. NDRI Dr KK Lal, Dir. NBFGR Dr Shailendra Rajan, Dir. CISH
Technical Session-II: Mechanization		
Moderator: Dr MM Pandey, Former DDG (Engg)		
	Panel Discussion	Panel Members
12:00- 01:00	Improving efficiency and drudgery reduction through mechanization	Dr KK Singh, Dir. CIAE Dr IM Mishra, Head, Engg, IARI Dr AK Singh, Head (A) Engg, IISR
01:00 - 02:00	Lunch	
Technical Session-IV: Natural Resource Management		
Moderator : Prof. Jeet Singh Sandhu, VC, NDUAT, Faizabad		
	Panel Discussion	Panel Members
02:00 - 03:00	Managing natural resources and producing healthy food	Dr Krishna Chandra, Dir. NCOF Dr RK Awasthee, Dir. NOFRI Dr KK Singh, Sc 'F' IMD Dr Mishra, Head, RS – CSSRI
03:00 - 03:15	Tea Break	
Technical Session-V: Post harvest management and value addition		
Moderator: Prof. S. Solomon, VC, CSAUA&T, Kanpur		
	Panel Discussion	Panel Members
03:15 - 04:15	Reducing post harvest losses through management and value addition	Dr. Bhardwaj, Dir. CIPHET Dr. AD Pathak, Dir. IISR Dr. Lata Sabiki, Head, DT, NDRI
Concluding Session		
04:15 - 05:00	Welcome by Dr. SK Singh, Dir. DKMA	
	Remarks by Dr. AK Singh, DDG (AE), ICAR	
	Sh. S.P. Singh Baghel, Hon`ble Minister, Animal Husbandry	
	Vote of Thanks by Dr. Randhir Singh, ADG (AE), ICAR	

Health Conclave

7 October, 2018 • Venue: Pluto Hall, IGP

COORDINATORS:

Dr. Alka Sharma

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Dr. Neeraj Tandon

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Dr. Asha Latha

Professor, SCTIMST

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Life Style Diseases: Risk Factors and Preventive Strategies

The life expectancy in India has increased to 70.3 years in females and 66.9 years in males in 2016. The per person disease burden measured as DALYs (Disability Adjusted Life Years) due to communicable, maternal, neonatal, and nutritional diseases (CMNNDs) has dropped from 61% in 1990 to 33% in 2016. However, there has been a corresponding increase in the contribution of non-communicable diseases (NCDs) from 30% of the total disease burden in 1990 to 55% in 2016. There is a wide variation between states in this epidemiological transition, ranging from 48% to 75% for NCDs. Among NCDs, the largest contribution to disease burden was due to cardiovascular diseases (CVDs), diabetes, chronic respiratory diseases, mental health and neurological disorders, cancers, musculoskeletal disorders, and chronic kidney disease. From 1990 to 2016, the highest increase in DALY rates was observed due to diabetes, at 80%, and ischemic heart disease (IHD), at 36%. Across India With population aging, there was a 9 fold increase in DALYs for ischemic heart disease, 4 fold for chronic obstructive pulmonary disease, 6 fold for stroke and 4 fold for diabetes. Risk factors including unhealthy diet, high blood pressure, high blood sugar, high cholesterol, and overweight were responsible for quarter of the disease burden in 2016 as compared to 10% in 1990. Though the risk factor contribution has increased in all the States, the combination of these risks was found to be highest in Punjab, Tamil Nadu, Kerala, Andhra Pradesh, and Maharashtra in 2016. The death rates due to NCDs were twice that of CMNNDs. In above-40 age group, NCDs are the dominant cause of death. The leading individual cause of death in India in 2016 was ischemic heart disease, the death rate from which was twice as much as the next leading cause. The other NCDs in the top 10 individual causes of death included chronic obstructive pulmonary disease (COPD), stroke, diabetes, and chronic kidney disease.

PROGRAMME SCHEDULE

Time	Technical Session
10:00 - 10:10	Welcome Address: Dr. Alka Sharma , Adviser, DBT
10:10 - 10:20	About the Theme by Dr. Neeraj Tandon , Scientist 'G', ICMR
10:20 - 11:20	Key Note Address: by the Chief Guest: Prof. Balram Bhargava , Secretary, DHR & DG, ICMR, New Delhi – Focus on Cardiovascular Diseases
11:20 - 11:55	High Tea
11:55 - 12:15	Prof. S. K. Dwivedi , Department of Cardiology, KGMU, Lucknow - Myocardial Infarction
12:15 - 12:35	Prof. Vasantha Padma Srivastava , Department of Neurology, AIIMS, New Delhi - Stroke Prevention
12:35 - 12:55	Prof. Eash Bhatia , Department of Endocrinology and Metabolism SGPGI, Lucknow - Diabetes : Rising Epidemic
12:55 - 01:15	Prof. Anurag Srivastava , Head, Department of Surgery, AIIMS, New Delhi
01:15 - 01:35	Dr. S. C. Tiwari , Formerly, Prof & Head, Department of Geriatric Mental Health KGMU, Lucknow - Stress and Depression
01:35 - 01:55	Dr. R. M. Acharya , Department of Integrated Medicine AIIMS, New Delhi -Life Style Intervention
01:55 - 02:00	Vote of Thanks by Dr. Asha Latha , Professor, SCTIMST

Health Exhibition

5 October, 2018 • Venue: Atal Bihari Vajpayee Scientific Convention Centre

Healthy lifestyle and high intake of nutritious food can provide good health throughout life to the humans. The poor nutrition and unawareness on the utilization of health facilities during their childhood and reproductive age are the major factors, by and large, responsible for the high maternal and child mortality. Though Government of India (GoI) has been taking several efforts to improve the health status of these vulnerable groups, in such a populous country as India more and more activities are the need of the hour to combat the existing lacunae. Poverty, gender discrimination and illiteracy in the population are the major hindrances causing bottlenecks in the implementation of appropriate interventions.

In this context, Expo for Women and Child Health is an attempt to improve the existing health conditions of these vulnerable groups in the society gains importance.

PROGRAMME SCHEDULE

Time	Programme
6:00 - 7:00	Inaugural Session
6:00 - 6:05	Lighting of the lamp & prayer
6:05 - 6:10	Honouring with Flowers
6:10 - 6:15	Welcome Address: Prof. M. L. B. Bhatt , Vice Chancellor, K G M U, Lucknow
6:15 - 6:20	Introduction: Dr. Ashalatha Radhakrishnan , Coordinator, Health Conclave
6:20 - 6:25	Felicitations: Sh. Sidharth Nath Singh , Hon'ble Health Minister, Uttar Pradesh
6:25 - 6:30	Felicitations: Sh. Sidharth Nath Singh , Hon'ble Health Minister, Uttar Pradesh
6:30 - 6:45	Inaugural Address: Sh. Adityanath Yogi , Hon'ble Chief Minister, Uttar Pradesh
6:45 - 6:55	Presidential Address: Dr. Harsh Vardhan , Hon'ble Union Minister for Science & Technology and Earth Sciences & Union Minister for Environment, Forest and Climate Change
6:55 - 7:00	Vote of Thanks
7:00	Documentary

Health Exhibition (5-20, October, 2018)

A 'Medical exhibition' named "Woman and Child Health Expo-2018" is going to enhance health awareness and exhibit the methodology of modern medical practices for the common man. The exhibition will thematically display original specimens of the human organ systems, multimedia narration of its functions; explains how various diseases and health hazards affect the human and demonstrate various treatment options available focusing on women and children.

Continuing Medical Education (6-7, October, 2018)

A two day Continuing Medical Education (CME) program for Medical Professionals and public separately including didactic lectures, debates, brain storming sessions etc on various health issues of women and children will be organized. During the CME experts from each of the sub- specialties (Gynecology/Obstetrics and Pediatrics) and allied super specialties, both nationally and internationally, medical students, and other health care workers etc. will participate.

Medical Camp - For Woman & Child (6-7 October, 2018)

Free medical camps will be organized for 2 days during the Conclave addressing the various issues of women and children by the experts in each field. Around 1000 people will be catered to each day and a group of 20 medical experts will guide them through their illness and the path to well-being. These beneficiaries will in turn be educated to take care of the various lacunae and misconceptions in their mind and in their immediate vicinity where they live. They will in turn be the torch bearers disseminating information back in their local community.

Industry Academia Interaction Meeting

7 - 8 October, 2018 • Venue: Jupiter Hall, IGP

COORDINATORS:

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The main goal of the Industry-Academia network is to provide support system for focused involvement of university and industry on product and application research. The nature of interaction proposed between industry and the university in the form of Panel discussion regarding Research support, Technology transfer and Collaborative research and Skill development. The various thematic sessions will have a keynote address, moderator talk followed by sharing of experiences by the Industry Academia leaders of India in the Food/Agriculture, Health, Information Technology, Rural Technology and Energy/Environment area. Encompassing the "Challenges and Opportunities: 2030". The sessions will also include a panel discussions/ interactions where participants can discuss and interact with the experts thereby highlighting the various challenges and opportunities in these areas. Success stories for innovative ideas with major impact are being invited and Awards would be given to selected success stories by Hon'ble Minister.

Broadly, the nature of interaction proposed between industry and the university in the form of Panel discussion regarding Academia- Industry partnership, Technology transfer & commercialization, facilitating innovation, Skill development & training and forecasting Future Technologies.

Also success stories for innovative ideas with major impact are being invited and Awards would be given to selected success stories by Hon'ble Minister of Science & Technology.

PROGRAMME SCHEDULE

DAY 1

7 OCTOBER, 2018

Inaugural Session		
Time		
10:00 - 10:05	Welcome by Dr. Sangita M. Kasture , Sc.E, DBT	
10:05 - 10:10	Special Address by Dr. S. R. Rao , Sc.H, DBT	
10:10 - 10:15	Keynote Address by Dr. Shekhar Mande , Vice President, VIBHA	
10:15 - 10:25	Inaugural Address by Dr. Anup Chandra Pandey , Chief Secretary, Govt. of U.P	
10:25 - 10:30	Vote of Thanks	
THEME 1 - FOOD/AGRICULTURE 2030: CHALLENGES AND OPPORTUNITIES		
10:30 - 10:50	Keynote Speaker: Dr. Ramesh V. Sonti , Director, NIPGR, New Delhi Moderator: Dr. S. R. Rao , Sc.H, DBT, New Delhi	
	Panel Discussion	Panel Members
10:50 - 11:30	<ul style="list-style-type: none">Challenges in Enhancing Crop yield, productivity, StorageGM Crops - Present & FutureImport reduction and export promotion measures	<ul style="list-style-type: none">Dr. D. N. Kulkarni, President, Jain Irrigation Systems Ltd., JalgaonDr. Prabodh S Halde, Head Global Regualtory Marico Ltd. & Prestat Elect AFST IndiaDr. J. P. Sharma, IARI, New DelhiDr. Abhay Shendye, Founder and Director, Swasti Agro Pvt. Ltd.Reporters: Dr. Hemant Kushwah, JNU
11:30 - 11:35	Vote of Thanks	
11:35 - 12:00	Tea Break	
THEME 2 – HEALTH 2030: CHALLENGES AND OPPORTUNITIES		
12:00 - 12:10	Introductory Remarks	
12:10 - 12:30	Keynote Speaker: Dr. Subash Kapre , Global Scientist, Director Emeritus, Serum Institute of India Moderator: Dr. Y. K. Gupta , Principal Adviser, THSTI -DBT (Projects), Former Dean and Head of Pharmacology, AIIMS, New Delhi	

	Panel Discussion	Panel Members
12:30 - 01:30	<ul style="list-style-type: none">• Scale up of potential projects from bench to bedside (industry focus)• Harness innovation potential of academia (academia focus)	<ul style="list-style-type: none">• Dr. Rama Jayasundar, Professor Deptt. of NMR, AIIMS, New Delhi• Dr. Navin Khanna, Group Leader ICGEB, New Delhi• Dr Shanti Nair, Director Research Amrita, Kochi• Dr. P. K. Seth, Former CEO Biotech Park, Lucknow• Dr. Sushil Kumar Gupta, Professor Deptt. of Medical Endocrinology, SGPGIMS, Lucknow• Prof. M. L. B.Bhatt, VC King George’s Medical University, Lucknow• Dr. GVS Manyam, Managing Director Panacea Medical Technologies• Reporters: Prof. Prakash Itenker, NV
01:30 - 01:35	Vote of Thanks	
01:35 - 02:00	Lunch Break	
THEME 3 – INFORMATION TECHNOLOGY2030: CHALLENGES AND OPPORTUNITIES		
02:00 - 02:10	Introductory Remarks	
02:10 - 02:30	Keynote Address and Moderator: Dr. Omkar Rai , DG, STPI, New Delhi	
	Panel Discussion	Panel Members
02:30 - 03:30	<ul style="list-style-type: none">• Moving forward from Data Analytics to AI, ML, IoT• From service provider to value creation• India as hub of IT innovation	<ul style="list-style-type: none">• Sh. Yogesh Singh, VC, DTU• Dr. Ethirajan Govinda Rajan, President, Pentagram Research Centre Pvt. Ltd., Hyderabad• Prof. Amit Agarwal, UPES, Dehradun• Prof. Sudip Misra, Professor, IIT, Kharagpur• Dr. Abhay Jere, Persistent Systems
03:30 - 03:35	Vote of thanks	
03:35 - 03:50	Tea Break	

THEME 4 – RURAL TECHNOLOGY 2030: CHALLENGES AND OPPORTUNITIES

03:50 - 04:00	Introductory Remarks	
04:00 - 04:20	Keynote Address: Prof. Satyajit Majumdar, Professor, Tata Institute of Social Sciences, Mumbai Moderator: Dr. Vipin Kumar, CIO, NIF, Gujarat	
	Panel Discussion	Panel Members
04:20 - 05:20	<ul style="list-style-type: none"> • Creation of micro self-sustainable ecosystems for job creation based on local, regional strengths. • Holistic development in Tier II, Tier III cities • Reverse trend of Rural youth exodus to cities • Harnessing Gharelu Nuskhe to scientific products 	<ul style="list-style-type: none"> • Dr. K. Vijayalakshmi, VC, Development Alternatives, New Delhi • Ms. Anuradha Bhavnani, Regional Head, Shell Foundation, Gurugram • Dr. Anil Joshi, HESCO, Dehradun • Dr. Jagpal Singh, Secretary at Foundation for Agricultural Resources Management and Environmental Remediation (FARMER), New Delhi • Dr. Vijay Kumar Chole, Vice President, BVG India Limited, Maharashtra • Dr. Murugan Kottaisamy, Vel Natural Fibers Reportier: Dr. Hemant R Kushwaha JNU, New Delhi
05:20 - 05:30	Vote of Thanks	

DAY 2

8 OCTOBER, 2018

ANNOUNCEMENT OF AWARDS

10:00 - 10:05	Welcome by Dr. Mohd. Aslam, Managing Director, BIRAC
10:05 - 10:15	Introductory Remarks by Dr. Renu Swarup, Secretary, DBT
10:15 - 10:30	Talk on “Indirect Taxes & Customs” Central Excise, Service Tax and Legal
10:30 - 10:45	Special address by Dr. Harsh Vardhan, Minister S&T, Environment & Forest, Climate Change & ES and interaction with Industry, Academia & Entrepreneurs
10:45 - 10:55	Announcement and distribution of Awards for selected success stories in various thematic areas
10:55 - 11:00	Vote of thanks by Dr. Sangita M Kasture, Sc.E, DBT
THEME 5 – ENERGY/ENVIRONMENT 2030: CHALLENGES AND OPPORTUNITIES	
11:00 -11:20	Keynote Speaker: Dr. Abhay Bakre, DG, Bureau of Energy Efficiency, New Delhi

	Moderator: Dr. Anjan Ray , Director, CSIR-Indian Institute of Petroleum, Dehradun	
11:20 - 12:20	Panel Discussion	Panel Members
	<ul style="list-style-type: none">• Clean Tech Energy Solutions• Opportunities for partnership• Challenges for Technology Transfer• Scale up and Commercialization -Specific Skilled Manpower	<ul style="list-style-type: none">• Dr. G.D. Yadav, VC, ICT, Mumbai• Dr. Rajani Hatti Kaul, Professor, Univ. of Lund, Sweden• Dr. Sangita M Kasture, Sc.E, DBT• Dr. Girish Sethi, Senior Director, TERI, New Delhi• Dr Jayant Sawant, Asst. Vice President, Praj Matrix• Dr. G. Ganesh Das, Head – Strategy, Business Excellence & Collaborations, Digital & Business Intelligence Tata Power DDL, New Delhi <p>Reportier: Dr. Shilpy Kochhar BIRAC, New Delhi</p>
12:20 - 12:25	Vote of Thanks	
CONCLUDING SESSION		
12:25 - 12:30	Welcome by Dr. Sangita M Kasture , Sc.E, DBT	
12:30 - 12:45	Talk on “Way forward towards Entrepreneurship” by Dr. Tripti Singhal Somani , CEO & MD-KGS Advisers LLP	
12:45 - 01:30	<p>Debriefing by Session Moderators</p> <p>Theme 1 - Food/Agriculture 2030: Challenges and Opportunities Moderator: Dr. Ramesh V. Sonti, Director NIPGR, New Delhi</p> <p>Theme 2 - Health 2030:Challenges and Opportunities Moderator : Dr. Y. K. Gupta, Principal Adviser, THSTI -DBT (Projects), Former Dean and Head Pharmacology, AIIMS New Delhi</p> <p>Theme 3 - Information Technology 2030: Challenges and Opportunities Moderator: Sh. Omkar Rai, DG, STPI, New Delhi</p> <p>Theme 4 - Rural Technology 2030: Challenges and Opportunities Moderator : Dr. Vipin Kumar, CIO, NIF, Gujarat</p> <p>Theme 5 - Energy/Environment 2030:Challenges and Opportunities Moderator: Dr. Anjan Ray, Director, CSIR-Indian Institute of Petroleum, Dehradun</p>	
01:30 - 01:40	Concluding address by Prof. Ashutosh Sharma , Secretary, DST	
01:40 - 01:45	Vote of Thanks by Dr. Manish Diwan , BIRAC, New Delhi	

Women Scientists and Entrepreneurs: Contributing Towards Transforming India

7 - 8 October, 2018 • Venue: MARS Auditorium, IGP

COORDINATORS:

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Former Director

NII, New Delhi

As a unique programme of IISF 2018, a Women Scientists & Entrepreneurs Conclave titled “Women Scientists & Entrepreneurs: Contributing towards transforming India” is being organized to promote and encourage science education and entrepreneurship among the young women. The aim of the programme is to showcase the role/contribution of Women Scientists & Entrepreneurs in transforming India; to encourage & motivate the students to take Science as a career and make them aware of opportunities and encourage the participants towards Entrepreneurship to generate self-employment and job creations.

The Conclave would provide a platform for connecting and networking among young women scientists and entrepreneurs to discuss opportunities in their field of activities. The participants are drawn from science, technology, engineering and allied disciplines.

The focus of the Conclave would be on following thematic topics– 1) Women Leaders in Science & Technology; 2) Role of Women in Transforming India; 3) Presentation by “Young Women Achievers”; 4) Policies for empowering women in Science-Initiatives of Govt. of India; 5) Journey of the Women Innovators and communicators and Interactive Sessions with Students – Open Forum/ Open House.

This Conclave would greatly motivate the young Women Scientists and budding Entrepreneurs and help in creation of a strong generation of leadership in Science and Technology that can accelerate transformation of India.

PROGRAMME SCHEDULE

DAY 1

7 OCTOBER, 2018 (Sunday)

Time	Program
08:30 - 10:00	Registration
10:00 - 11:00	Inauguration
10:00	Arrival of Chief Guest by Mrs. Rita Bahuguna Joshi , Hon'ble Cabinet Minister of Women's Welfare, Family Welfare, Maternal & Infant Welfare and Tourism, Govt. of Uttar Pradesh
10:00 - 10:05	Welcome by Dr. Suraksha S. Diwan , Scientist 'E', DBT
10:05 - 10:10	Felicitation of Dignitaries by Dr. Suraksha S. Diwan , Scientist 'E', DBT
10:10 - 10:20	Key note address by Dr. Veena Tandon , NASI Senior Scientist Lucknow Biotech Park
10:20 - 10:30	Special Address by Dr. Renu Swarup , Secretary, DBT
10:30 - 10:45	Inaugural speech by Chief Guest
10:45 - 10:55	Address by Smt. Bindu Suraj , National Governing Council, Member, VIBHA
10:55 - 11:00	Vote of thanks Dr. Chandrima Shaha , Former Director, National Institute of Immunology, New Delhi.
11:00 - 11:30	Inauguration of Exhibition by Chief Guest and interaction with Women Scientists
11:00	Inauguration
11:10	Chief Guest Departs
11:30 - 01:00	Women Leaders in Science & Technology Chair & Lead Speaker – Dr. Swati Basu , Former Scientific Secretary, Office of the Principal Scientific Adviser to Government of India Presentations by Women Scientists in various fields Agriculture - Dr. Shelly Praveen , NAAS Medical - Dr. Sujata Mohanty , AIIMS, Delhi Physics - Dr. Shobhana Narsimha , JNCASR, Bengaluru Chemistry - Dr. Jyotirmoyee Dash , Associate Prof. Dept of Organic Chemistry, IACS Computational Biology - Dr. Indira Ghosh , JNU, New Delhi Nutrition - Dr. V. Vijayalakshmi , National Institute of Nutrition, Hyderabad
01:00 - 02:00	Lunch and Poster Session

02:00 - 03:00	<p>Panel Discussion: Role of Women in Transforming India</p> <p>Session Moderator: Dr. Sudha Nair, Women Biotechnology Park, Chennai.</p> <p>Panelists: Scientists and Entrepreneurs</p> <p>Dr. Shashi Bala Singh, Former Director General Life Sciences, DRDO, Present Director, NIPER, Hyderabad</p> <p>Dr. Suchitra Banerjee, CIMAP, Lucknow</p> <p>Dr. S Asha Latha, Principle Scientist, CIFT, Kochi</p> <p>Dr. G. Latha, Scientist 'G', NIOT, Chennai</p> <p>Ms. Bincy Baby, Director, ERAM Scientific Solutions</p> <p>Romita Ghosh, MedSamaan and Admirus (delivers medical services to rural sectors)</p>
03:00 - 04:00	<p>Presentation by "Young Women Achievers"</p> <p>Moderator – Dr. Suraksha S. Diwan, Scientist 'E', DBT</p> <p>Young Scientists:</p> <p>Dr. Shailja Singh, Associate Professor, Special Centre for Molecular Medicine, JNU, Delhi</p> <p>Dr. Anupama Engineer, Agharkar Research Institute, Pune</p> <p>Dr. Keshani Bhushan, Punjab Agricultural University, Ludhiana</p> <p>Young Entrepreneurs:</p> <p>Dr. Jugnu Jain, BioBank, Hyderabad</p> <p>Dr. Nusrat Jahan M. Sanghamitra</p>
04:00 - 04:30	Tea
04:30 - 05:30	<p>Policies for empowering women in science-Initiatives of Govt. of India</p> <p>Moderator: Dr. Purnima Sharma, Managing Director, Biotech Consortium India Limited (BCIL)</p> <p>Best practices from Other countries</p> <p>Ms. Maria Lunander, Counsellor Innovation & Science, Embassy of Sweden</p> <p>Initiatives for Women Scientists and Women Entrepreneurs</p> <p>Dr. Anita Gupta, Scientist 'G', DST</p> <p>Dr. Vandana Singh, Scientist 'D', DST</p> <p>Dr. Suraksha S. Diwan, Scientist 'E', DBT</p> <p>Dr. Vishwajanani Sattigeri, Senior Principal Scientist, CSIR</p> <p>Ms. Ratna Anjan Jena, Statistical Adviser, Ministry of Women and Child Development</p>
05:30 - 06:00	Visit to stalls and Posters and interaction with Scientists

DAY 2**8 OCTOBER, 2018 (Monday)**

Time	Programme
09:30 - 10:30	Journey of the Women Innovators and communicators Women Innovators Dr. Tripti Bhatnagar , Codon Biotech (Industrial Biotechnology) Dr. Vanita Anand Prasad , Revy Environmental (Environmental Biotechnology) Dr. Subhashini C R , Aristogene (Aquaculture) Science Communicators Ms. Shubhra Priyadarshini Nature Dr. Kinkini Dasgupta Misra , VP Dr. Suparana Datta , Professor, Dept of Communication, BITS MESRA Dr. Vibha Vershney , Science Editor, Down to Earth
10:30 - 11:00	Tea and Interaction with Women Scientists and Entrepreneurs
11:00 - 12:00	Interactive Sessions with Students – Open Forum/ Open House
12:00 - 01:00	Concluding Session Summary by Dr. Kinkini Das Gupta , Vigyan Prasar Distribution of Prizes for Posters and Stalls Dr. Renu Swarup, Secretary, DBT. Vote of Thanks – Dr. D. S. Shyni , Ministry of Drinking Water and Sanitation, Govt. of India
01:00 - 02:00	Lunch

National Social Organizations and Institutions Meet (NSOIM)

5 - 6 October, 2018 • Venue: Mars Hall, IGP

COORDINATORS:

Dr. Meenakshi Munshi

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Transforming India- Challenges and Opportunities

In line with the overall theme of the festival, NSOIM is being organized involving grass root level organizations & institutions who are committed to take forward scientific interventions which can play a major role in societal transformation and in turn play a pivotal role in taking forward the flagship programs of the government. This could pave way towards addressing overall UN sustainable development goals. The objective is capacity building of social organizations and institution through S&T interventions for Nation building. We are expecting to have 500 credible social organizations and institutions, which will be short listed after screening by conducting state wise pre conference workshops/ orientation programmes throughout India. The NSOIM shall deliberate on various focal themes like Sustainable Agriculture & Water resource management, Women Empowerment and Child development, Skills and Entrepreneurship development, Science for Transformation and New paradigms for Social enterprises. The expected outcomes are creation of National network of Social Organizations & Institutions of all the stake holders working together in Transforming India, dissemination of Science & Technology through the platform Social Organizations with the motto of 'Science for masses' OR 'Lab to Land' social outreach activities, Capacity building and engagement of Social Organizations in promoting Flagship programs of the Government at the grass root level, promoting Social Entrepreneurship through Network of Social organizations to ensure active role in building New India through the intervention of Science & Technology, developing an e-commerce portal, bringing out a compendium based on the deliberations of the National Meet, IISF-NSOIM, related to the role of Social Organizations in the Nation Building.

PROGRAMME SCHEDULE

DAY 1

5 OCTOBER, 2018 (Friday)

Time	Programme
09:00 - 10:00	Registration
10:00 - 11:15	Inaugural Session
10:00	Arrival of Dignitaries
10:05	Lighting of Lamp
10:05 - 10:07	Invocation
10:07 - 10:20	Welcome by Sh. N P Rajive, Coordinator, NSOIM
10:20 - 10:30	Introduction to NSOIM by Sunil Chaturvedi, National Coordinator, Vibha Vani
10:30 - 10:40	Presidential Address: Dr. Madhavan Nair Rajeevan, Secretary, Ministry of Earth Sciences
10:40 - 10:55	Special Address by Sh. A Jayakumar, Special Adviser, Vijnana Bharati
10:55 - 11:15	Key Note Address: Dr. Girish Sahni, Ex-DG, CSIR
11:15 - 11:20	Vote of Thanks: Dr. S. U. Ahmad, Scientist-E, DBT
11:20 - 12:00	High Tea
12:00 - 01:15	<p>Technical Session: Theme wise:</p> <p>Panel Discussion and Presentation: Each speaker will speak for 15 minutes each</p> <p>1. Women Empowerment & Child Development Title: “Mother & Child- Health issues, Education and Livelihood” Venue: Neptune Hall-1</p> <p>Chair: Dr. Madhu Dixit, Ex. Director, CDRI, Lucknow</p> <p>Speaker 1: Dr. Bhalchandra Sathaye, Secretary, Rugna Seva Prkalalp, Sangli</p> <p>Speaker 2: Dr. Sudha Nair, CEO, Golden Jubilee Biotech Park for Women Society, Kanchipuram, TN</p> <p>Speaker 3: Dr. Vijayalakshmi Bhatia, Dept. of Endocrinology, SGPGI, Lucknow</p> <p>Key Note: Mrs. Sudha Narayana Moorthy, Director, Infosys Foundation</p>
	<p>2. Skills & Entrepreneurship Development Title: “Concerns and issues of Skill Development Ecosystem & Entrepreneurship development” Venue: Neptune Hall-2</p> <p>Chair: Dr. Manoj Kumar, Head of Tata Trust</p> <p>Speakers 1: Ms. Swati Bondia, Director, Clap International School of Business, Bengaluru</p> <p>Speaker 2: Dr. Yogesh Kulkarni, Director, Vigyan Ashram, Pune</p> <p>Speaker 3: Dr. Sanjay Singh, Centre for Technology & Entrepreneurship Development (CTED), Amethi</p> <p>Key Note: SH. Manish Kumar, MD & CEO, NSDC</p>

	<p>3. Science for Transformation Title: “Technology interventions, Innovations and Science Dissemination for New India” Venue: Neptune Hall-3</p> <p>Chair: Sh. V P Singh, Secretary, Indian Science Communication</p> <p>Speaker 1: Dr. Arun Kumar, CEO & Sr. Vice President, Development Alternatives Group, Delhi</p> <p>Speaker 2: Ms. Sheetal Shinkhede, Asst. Director of HPP, Electronics & Communication Engineering</p> <p>Speaker 3: Dr. V Balakrishnan, M S Swaminathan Research Foundation, Wayanad</p> <p>Speaker 4: Dr. P. M. Padole, Director, NIT, Nagpur</p> <p>Key Note: Dr. Girish Sahni, DG CSIR & Secretary DSIR</p> <hr/> <p>4. Integrated Sustainable Development Title: “Search for Integrated Sustainable Development Models” Venue: Neptune Hall-4</p> <p>Chair: Dr. B K Dutta, Director, Vivekananda Institute of Biotechnology, Sri Ramakrishna Ashram, Nimpith, WB</p> <p>Co-Chair: Dr. Sunil Agarwal, SEED, DST</p> <p>Speaker 1: Sh. Atul Jain, General Secretary, Deendayal Research Institute, New Delhi</p> <p>Speaker 2: Ms. Vishaish Uppal, Director, Sustainable Livelihood & Governance, WWF India, Delhi</p> <p>Speaker 3: Mrs. Anuradha Gupta, Secretary, Prithvi Innovation Foundation, Lucknow</p> <p>Key Note: Dr. Anil P Joshi, Founder, HESCO, Dehradun</p>
01:15 - 20:30	Lunch Break
02:30 - 04:00	<p>Plenary Session: (15 Minutes each) and (15 minutes) of Question & Answer</p> <p>1. Sustainable Agriculture, Water Resources Management and Environment Title: “Doubling Farmers Income by 2022”</p> <p>Chair: Prof. Ashutosh Sharma, Secretary, DST</p> <p>Co-Chair: Dr. Subhas Tamboli, Executive Director, AFARM, Pune</p> <p>Speaker 1: Dr. R K Singh, Founder & Director, NEFORD, Lucknow</p> <p>Speaker 2: Dr. Sunil Chaturvedi, Executive Director, Vibhavari, Indore</p> <p>Speaker 3: Sh. Kartik Sapre, Narmada Samagra, Bhopal</p> <p>Key Note: Dr. J P Sharma, Joint Director (Agriculture Extension), IARI, New Delhi</p>
03:45 - 04:15	Special Address: Dr. Radha Mohan Singh, Union Min. of Agriculture, GOI

DAY 2**6 OCTOBER, 2018 (Saturday)**

10:00 - 11:15	<p>Plenary Session: (15 Minutes each) and (30 minutes) of Question & Answer</p> <p>2. Emerging Trends in the Social Sector Title: “New Paradigm for Social Enterprises, the road ahead”</p> <p>Chair: Dr. Roshan Lal, Professor, PTU, Chandigarh</p> <p>Speaker 1: Sh. Sadanand Chakrabarti, Secretary, SNASWS, Alipurduar, WB</p> <p>Speaker 2: Sh. Ramasamy Krishnan, Director, SNEHA, Bengluru</p> <p>Special Address: & Launch of E-Commerce Portal for Social Entrepreneurs</p> <p>Sh. P. P. Chaudhary, Min. of State for Corporate Affairs, GOI</p> <p>Key Note: Prof. K. VijayRaghavan, Principal Scientific Adviser to Govt. of India</p>
11:15 - 12:00	<p>High Tea</p>
12:00 - 01:00	<p>Valedictory Session</p> <p>Welcome & NSOIM Declaration: Sh. N P Rajive, Vice Chairman, NIF & Executive Director, Vibha Vani</p> <p>Guest of Honour: Sh. Kailash Vijayavargiya, Former Cabinet Min. in M.P. Govt.</p> <p>Valedictory Address and Distribution of Awards/Citation:</p> <p>Dr. Harsh Vardhan, Hon’ble Union Minister of Science & Technology, Earth Sciences, Environment, Forest and Climate Change</p> <p>Vote of Thanks: Dr. Shahaj Uddin Ahmed, DBT</p>

National Science Teachers' Congress

6 - 7 October, 2018 • Venue: Mercury Hall, IGP

COORDINATORS:

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One of the important communities which inculcate and imbibe the moral values, knowledge and wisdom in young age is teachers. Teacher is the basic source of education and helps in building the nation. They were widely loved and respected as 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 the country by leaving a deep imprint on our society.

National Science Teachers Congress will bring hundreds of innovative, dedicated and passionate teachers from all walks of life, on a single platform to share their experiences and put forth the future road map for the country. Participating teachers will showcase the innovative methods of teaching on the subject themes and ideas. The workshop will include panel discussions on various aspects of teaching-learning practices as well as the effective tools for comprehensive and continuous learning of science. It will also discuss the Science, Technology, Engineering and Mathematics (STEM) inter-linkage and policies to make education an effective tool for nation building. The congress will bring out the report based on the dissertations and deliberations conducted.

The workshop shall cover a plethora of topics ranging from Science Education and Role of Science Teachers, Pedagogy of science teaching and learning and plenary talks on "Experience sharing through innovative practices" and Exhibition/Demonstration by subject based practicing teachers.

DAY 1**6 OCTOBER, 2018 (Saturday)**

09:00 - 10:00	Registration
10:00 - 11:00	Inauguration by Hon'ble Dy. Chief Minister , Uttar Pradesh
11:00 - 11:30	Tea Break and shifting to other venue for parallel sessions
12:00 - 01:30	Elementary Education <ul style="list-style-type: none"> • Dr. Anup Kumar Rajput Professor and Head, Department of Elementary Education, NCERT, New Delhi • Ms. Jyotsna Vijapurkar Faculty Member, Homi Bhabha Centre for Science Education, Mumbai • Sh. D. Rama Sarma Director, National Science Centre, Delhi
	Secondary & Higher Secondary Education <ul style="list-style-type: none"> • Dr. A. K. Wazalwar Professor, Department of Education in Science and Mathematics NCERT, New Delhi • Dr. Dinesh Kumar Professor & Head, Department of Education in Science and Mathematics, NCERT, New Delhi • Dr. P. K. Joshi Homi Bhabha Centre for Science Education, Mumbai
	Graduate/Post Graduate Education <ul style="list-style-type: none"> • Prof. H. C. Verma Professor, Department of Physics, IIT Kanpur • Sh. Shekhar C. Mande Director, National Centre for Cell Science, Pune • Prof. Pramod Kumar Jain Director, Indian Institute of Technology, Varanasi • Dr. S. Srinivasa Professor, Tumkur University, Karnataka
01:30 - 03:00	Lunch

DAY 2**7 OCTOBER, 2018 (Sunday)**

09:30 - 10:00	Plenary Session	Dr. S.P. Singh , Vice Chancellor, Lucknow University, Lucknow
10:00 - 11:00	Plenary Session	<ul style="list-style-type: none"> Prof. K VijayRaghavan Principal Scientific Adviser to Prime Minister of India
11:00 - 11:30	Tea	
11:30 - 01:00	Demonstrations-II (Practicing Teachers) Physics	<ul style="list-style-type: none"> Dr. R K Awasthi Lecturer Physics St. George's College 3 - Agra Prof. J. Chandrasekhar Rao HOD Physics, Govt. Degree College - Salur, Vizianagaram, Andhra Pradesh
	Chemistry	<ul style="list-style-type: none"> Mrs. Jyoti Milind Medpilwar Teacher, Durganagar High School, Maharashtra Ms. Pushplata Ravindra Gavande Teacher, Walmikinagar Hindi High School, N.M. C., Nagpur, Maharashtra
	Environment Sciences	<ul style="list-style-type: none"> Sh. Vishnu K. Vaze Teacher (Retd), Mithibai College Villeparle West, Mumbai, Maharashtra Dr. Aruna Samant, Professor, Thomas Baptista Jr College Papdy Vasai West, Plaghar, Maharashtra
	Mathematics	<ul style="list-style-type: none"> Dr. Ajay Gaur, Principal, Pramukh Swami Science & H.D. Patel Arts College, Gujarat Sh. Meena Suresh, Director Ramanujan Museum & Maths Education Center, Tamil Nadu
01:00 - 02:30	LUNCH	
02:30 - 03:30	Teaching Science & Mathematics Today - New Dimension in STEM Education	<ul style="list-style-type: none"> Prof. G. S. Rautela Former DG, NCSM

03:30 - 05:00	Demonstrations-II (Practicing Teachers) Physics	<ul style="list-style-type: none"> • Dr. R K Awasthi Lecturer Physics St. George's College 3 - Agra • Prof. J. Chandrasekhar Rao HOD Physics, Govt. Degree College-Salur, Vizianagaram, Andhra Pradesh
	Chemistry	<ul style="list-style-type: none"> • Mrs. Jyoti Milind Medpilwar Teacher, Durganagar High School, Maharashtra • Ms. Pushplata Ravindra Gavande Teacher, Walmikinagar Hindi High School N.M.C., Nagpur, Maharashtra
	Environment Sciences	<ul style="list-style-type: none"> • Sh. Vishnu K. Vaze Teacher (Retd), Mithibai College Villeparle West, Mumbai, Maharashtra • Dr. Aruna Samant Professor, Thomas Baptista Jr College Papdy Vasai West, Plaghar, Maharashtra
	Mathematics	<ul style="list-style-type: none"> • Dr. Ajay Gaur, Principal, Pramukh Swami Science & H.D.Patel Arts College,Gujarat • Sh. Meena Suresh, Director Ramanujan Museum & Maths Education Center
05:00 - 05:30	Concluding Session	<p>Welcome of Hon'ble Minister S&T by</p> <ul style="list-style-type: none"> • Dr. Garima Gupta, Sc-E, DBT • Remarks by Hon'ble Minister S&T • Vote of Thanks by • Dr. Arvind C. Ranade, Sc-E, Vigyan Prasar

Science & Technology for Harnessing Innovations (SATHI)

**7 - 8 October, 2018 • Venue: VIP Lounge, Earth Complex, IGP
& Pre-conference Area (Lobby) for exhibition**

COORDINATORS:

Dr. Nitin K Jain

Sc. 'E', DBT

Ph. No. 011-24365972

Dr. Vipin Kumar

Director, NIF

Ph. No. 9825316994

Dr. Anil Kothari

Professor & Head, RGPV

Ph. No. 9425148662

Sh. Amit Katiyar

BIRAC, New Delhi

Ph. No 9711669429

The meet aims to provide a common platform for various stakeholders—from students, innovators and researchers to policymakers. About one hundred innovative technologies from all the States of India will be showcased at the exhibition. The special focus will be given to those which could be diffused socially and generate employment. This exhibition at the IISF will expose the visitors and others to the pervasive culture of creativity and innovation at grassroots. There will also be Seminar/round table discussions on innovations, incubation and entrepreneurship during the summit to educate and encourage the young aspirants to take innovations for start-ups.

The session on 'Science and Technology for harnessing innovation (SATHI)' will cover various facets of entrepreneurship development in the area of application of science and technology. The session will have 4 panel discussions in which the leaders from Government, Industry, Academia and start-ups will enlighten audience on challenges and opportunities exist in S&T based entrepreneurship. A brief about the Panel discussion is given below :

1. Science based Entrepreneurship

(Challenges and Opportunities): Indian Biotech Industry has been able to achieve an exponential growth phase due to a range of positive trends including demand for healthcare services, food & nutrition, intensive R&D activities along with strong government initiatives.

This session plans to involve the experts who would throw light on the current scenario of science based Entrepreneurship and will address the challenges faced by entrepreneurs during their journey. The intension is to spread awareness among the rising entrepreneurs about window of opportunities that are being provided by Government of India.

2. Entrepreneurial Journeys

(5-6 startups will share their inspiring journeys): BIRAC has supported various startups, entrepreneurs and SMEs till date. BIRAC aims to foster the strategic research innovation ecosystem through several programs such as BIG, SBIRI, BIPP, PACE, SPARSH, BioNEST and many more.

BIRAC has invited its successful innovators who would share their entrepreneurial journey. They will share their experiences, challenges, driving force towards completion of their journey.

3. Planning your Startup

Ideation, Incubation and Seed Support, Showcase of Various Programmes of Govt. of India: Biotech Startup Ecosystem is one of the sunshine sectors in India. The Startups and Entrepreneurs need mentoring from the domain experts regarding planning and building of a Startup. Government of India has launched many initiatives for the same intent.

The Panelist in this session would share their knowledge and expertise about ideation, incubation and seed support.

4. Scaling Up your Ventures/Startups:

Window of Opportunities-For scaling up the start-ups and their sustenance in the market, Government of India has now moved forward to bring in this support mechanism. A strong foundation has been laid for an innovation driven biotech enterprise in India.

The panel will deliberate the possible strategies and opportunities formulated by Indian Government for scaling up the innovations.

PROGRAMME SCHEDULE

DAY 1

7 OCTOBER, 2018 (Sunday)

Time	Programme
09:00 - 10:00	Registration
10:00 - 10:45	Inaugural Session
10:00 - 10:05	Lighting of Lamp
10:05 - 10:15	Welcome address by Dr. Mohd. Aslam , Scientist G, DBT and MD, BIRAC, New Delhi
10:15 - 10:30	Address by Sh. A. Jayakumar , Special Adviser, Vijnana Bharati
10:30 - 10:40	Inaugural Address by Dr. Ashutosh Sharma , Secretary, DST
10:40 - 10:45	Vote of thanks – Dr. Nitin Kumar Jain , Scientist E, DBT
10:45 - 11:15	High Tea
10:00 - 05:30	Exhibition of innovations, prototypes and products by startups, students and entrepreneurship

11:15 - 01:00	Session 1 Panel discussion on Science based Entrepreneurship – Challenges and Opportunities <ul style="list-style-type: none"> • Dr. Manish Diwan, Head Strategic Partnerships and Entrepreneurship Development, BIRAC – Moderator • Sh. Anil Agarwal, Joint Secretary, DIPP • Dr. Anita Gupta, Scientist -G /Adviser and Associate Head-NSTEDB, DST • Dr. Alka Sharma, Adviser, DBT • Dr. A. P. Mittal, Member Secretary, AICTE • Dr. Nusrat Jahan M. Sanghamitra, Founder and CEO, Cyca Oncosolutions • Dr. Avijit Bansal, CEO & Co-Founder, Windmill Health • Sh. Nitin Sisodia, Founder and CEO, Sohum Innovation
01:00 - 02:30	Lunch
02:30 - 04:30	Session 2 Entrepreneurial Journeys (5-6 startups will share their inspiring journeys) <ul style="list-style-type: none"> • Dr. PKS Sarma, General Manager (GM) & Head – Technical, BIRAC – Moderator • Dr. Pawan Mehrotra, Founder and MD Aarna Biomedical • Dr. Vishal Rao, Founder, Innaumation Medical devices • Dr. Tripti Bhatnagar, MD Codon Biotech • Dr. Kabir Udeshi, Founder Flycatcher Technologies • Dr. Supriyo Sen, Individual entrepreneur • Sh. Ashish Gawade, Co-founder Jeevtronics • Sh. Abhinav Cardea, Co-founder Cardea Labs
10:00 - 05:30	Exhibition of Startup Products/Technologies/Prototype

DAY 2**8 OCTOBER, 2018 (Monday)**

Time	Programme
10:00 - 13:15	Exhibition of Startup Products/Technologies/Prototype
10:00 - 10:30	Registration
10:30 - 11:30	Session 1 Planning your Startup- Ideation, Incubation and Seed Support Showcase of Various Programmes of Govt. of India <ul style="list-style-type: none"> • Dr. Sanjay Saxena, Head Investment, BIRAC – Moderator • Sh. R. Ramanan, Mission Director, Atal Innovation Mission • Ms. Shruti Singh, Deputy Secretary, DIPP, Incharge Startup India • Dr Anita Gupta, Adviser and Associate Head-NSTEDB • Dr. Mohit Gambhir, Director, MHRD Innovation Cell, AICTE • Sh. Virinder Sharma, Director, MSME
11:30 - 11:45	Tea
11:45 - 12:45	Session 2 Scaling Up your Ventures/Startups Window of Opportunities <ul style="list-style-type: none"> • Dr. Shirshendu Mukherjee, Mission Director , PMU-BIRAC – Moderator • Dr. Bindu Dey, Former Secretary, TDB • Sh. Deepak Bagla, MD & CEO of Invest India • Dr. Vipin Kumar, Chief Innovation Officer / Director, NIF • Ms. Padmaja Ruparel, IAN • Dr. Akhilesh Mishra, Scientist D, DST • Dr. Mohit Gambhir, Director, MHRD Innovation Cell, AICTE • Sh. Kunal Upadhyay, Bharat Innovation Fund
12:45 - 01:15	Award Ceremony for Exhibitors and Concluding Session - Chief Guest Dr. Renu Swarup , Secretary, DBT Vote of Thanks – Dr. Nitin Kumar Jain , Scientist E, DBT
01:15 - 02:30	Lunch

Science Village – Mega Student’s Camp “Reaching the Unreached” ‘Parliament to Panchayat’

5– 8 October, 2018 • Venue: CSIR-National Botanical Research Institute

COORDINATORS:

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The 2018 edition of the Science Village is set to unfold at the 4th India International Science Festival – 2018 in Lucknow at CSIR-National Botanical Research Institute. The theme of Science Village program has been sculpted in such a way that the teacher and student delegates were selected and nominated by Hon’ble Members of Parliament from their respective adopted villages spreading all states and union territory under the aegis of **Pradhan Mantri Sansad Aadarsh Gram Yojana** and therefore the Science Village demonstrates a mass representation from the rural part of India. This is indeed a continuation of the democratic process: ‘Parliament to Panchayat’. Science Village - 2018 is set to 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 Mantri Sansad Adarsh Gram Yojana** through which each Member of Parliament will nominate 5 students and 1 teacher from their adopted village. The nominated students will be from class 9th – 11th standard. The expected student delegates this time are around 10,000. It will be a lifetime opportunity for them 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 from India and Abroad.
- To R&D laboratories in Lucknow.
- To interact with representatives from various Government Departments and Motivational speakers
- To be a part of live hands on science activities conducted by science communicators.
- To watch science films.
- To see celestial objects through telescope in night sky watch programme.
- Workshop on scientific instrument.

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 2018, 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 Will Work?

The Science Village will have six different houses with each house named after famous Indian Scientists. Each student and the accompanying teacher from adopted village will become a member of one of the house named after Indian Scientist. Throughout the festival each student and teacher will be known after that house. For identification, each student and teacher of a particular house will be provided a cap and badge with single and prominent color. All students from the respective houses shall perform all activities together and would be taken care of by their respective teachers and set of volunteers at all time. The teachers are required to take instructions from the House Coordinators and the volunteers at all times right from their arrival to departure from IISF -2018 Science Village.

Six Houses of Science Village

1. **APJ Abdul Kalam (1931-2015):** Dr. APJ Kalam was the Eleventh President of India and a world renowned Space Scientist. He outstandingly contributed to India's civilian space program and military missile development. He was given Bharat Ratna Award in 1997 and is fondly referred to as The "People's President" and The Missile Man of India.
2. **Sir, Chandrasekhar 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 Noble Prize for his discovery of the Raman Effect
3. **Vikram Ambalal Sarabhai (1919-1971):** A scientist and innovator who is widely regarded as the Father of India's Space Program. 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 his visionary
4. **Homi Jehangir Bhabha (1909-1966):** Prof. Bhabha made significant contribution 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 establishment and also known as the father of Atomic energy in India
5. **Har Gobind Khorana (1922 -2011):** Dr. Har Govind Khorana won the Nobel Prize in Physiology or Medicine in 1968 for his work on discovering that the order of nucleotides in our DNA determine which amino acids are built. These amino acids, in turn, form the proteins which are responsible for

the essential cell functions. Khorana is also credited with another scientific breakthrough when he constructed the first synthetic yeast gene. He was also awarded the National Medal of Science during his lifetime.

6. **Sir Jagdish Chandra Bose (1858- 1937):** Dr. Jagdish Chandra Bose was one such eminent scientist who not only helped the world by contributing his achievements in the field of science but he also contributed the life of plants and animals. Dr. Bose brought to the world, the fact that just like humans the plants also have emotions and feelings. The plants breathe and even they die.

Schedule For Scientific Activities In Science Village			
House Name		Activities	
1	Kalam House	Sci 1	Hands on Experiment- Physics
2	Raman House	Sci 2	Hands on Experiment – Chemistry
3	Sarabhai House	Sci- Stu	Student Scientists Interaction
4	Bhabha House	Sci-Ins/Fs	Scientific Instrument/Foldscope
5	Khorana House	Lab	Lab Visit
6	Bose House	Sci -Fs	Scientific Film Show

Date	Activity	09.00-12.30 hrs						12.30-13.30 hrs	13.30- 16.00 hrs						16.00 - 17.30 hrs	20.00 hrs	
4 th Oct	Arrival & Registration of Students and Teachers						Lunch		Arrival & Registration of Students and Teachers						-		
5 th Oct	Inauguration of Science Village						Lunch		SCI 1	6						Popular Talk	Sky Watch
									SCI 2		1						
									SCI- STU			2					
									SCI-INS				3				
									LAB					4			
									SCI -FS						5		
6 th Oct	Inauguration of IISF 2018						Lunch		Mega Expo VISIT at IGP						Sky Watch		
7 th Oct	SCI 1	1						Lunch Poster Presentation	SCI 1	6						Popular Talk	Sky Watch
	SCI 2		2						SCI 2		1						
	SCI- STU			3					SCI- STU			2					
	SCI-INS				4				SCI-INS				3				
	LAB					5			LAB					4			
	SCI -FS						6		SCI -FS						5		
8 th Oct	SCI 1	3						Lunch Poster Presentation	SCI 1	2						Valedictory	
	SCI 2		4						SCI 2		3						
	SCI- STU			5					SCI- STU			4					
	SCI-INS				6				SCI-INS				5				
	LAB					1			LAB					6			
	SCI -FS						2			SCI -FS							

Face to Face with New Frontiers in Science

7 October, 2018 • Venue: Earth Moon Halls No. 2, 3, 4 & 5, IGP

COORDINATORS:

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Dr. Gopal Iyyengar

Scientist 'G', MoES

Dr. Rajeev Sharma

Scientist 'D', Ministry of Science
and Technology

Face to Face with New Frontiers in Science (FFNFS) gives the higher secondary, graduation, post-graduation, research students opportunity to attend the sessions of excellencies in different fields of science and technology. Interactions with scientists and the sessions shall help students to familiarize themselves with the frontiers of science and also think, dream, and work objectively, thereby becoming a part of nation building. A session on careers in science and technology is intended to provide them a chance not only to feel the emerging exciting fields but also to identify their inclinations and learn about the needs of the nation and available opportunities by seasoned scientists. An exhibition on CPS Technologies is also to be held as part of FFNFS.

Parallel Sessions:

Hall A:

Genomics as a Driver of National Development

The session will highlight how genomics can be a driver of holistic national development. The Keynote Speaker will describe conceptual, methodological and technological advances in genomic sciences, and will also provide real-life applications of genomics. Various domains of relevance to our nation will be discussed. Each domain will be represented by a speaker from an Indian institution with deep contributions to domain knowledge using genomics, who will deliver a lecture emphasizing applications of genomics for development. After the domain-lecture, there will be a discussion on genomics as a driver of the domain.

PROGRAMME SCHEDULE

DAY 1

7 OCTOBER, 2018 (Sunday)

Time	Name of Speaker
10:00 - 11:00	Prof. Fransisco De La Vega Professor, Genetics and Biomedical Data Science, Stanford University, USA
11:00 - 12:00	Dr. Arindam Maitra Associate Professor, National Institute of Biomedical Genomics (NIBMG), Kalyani
12:00 - 01:00	Dr. Sharmila Mande Chief Scientist & Head, Bio-Sciences R&D at Tata Consultancy Services, Pune, Maharashtra
02:00 - 03:00	Dr. Swarup Parida Staff Scientist II, NIPGR, New Delhi
03:00 - 04:00	Dr. Datta Madamwar Professor, Sardar Patel University, Gujarat
04:00 - 05:00	Dr. Partha P Majumder J. C. Bose National Fellow and Distinguished Professor, NIBMG, Kalyani

Hall B:

Evolution of Life and Climate on Earth

This session will encompass broad disciplines of Physical, Biological, Meteorological/Climatological, Paleontological, Evolutionary and Environmental Sciences. The theme is focused on the aspects such as: Origin of life on Planet Earth, Physical and geochemical properties of Earth, Evolution of life, Climate of the past, Prediction of the future climate, Ecosystem dynamics etc.

Time	Name of Speaker
09:30 - 10:20	Prof. Ashok Sahni Professor Emeritus Former Pro Vice Chancellor, Punjab University, Chandigarh
10:20 - 11:10	Prof. A. K. Singhvi Raja Ramanna Fellow Physical Research Laboratory, Ahmedabad
11:10 - 12:00	Prof. Sunil Bajpai Professor, Department of Earth Sciences, Indian Institute of Technology, Roorkee
12:00 - 12:50	Dr. G. B. Pant Former Director, IITM

02:00 - 02:50	Dr. Anil Bhardwaj Director, Physical Research Laboratory, Ahmedabad
02:50 - 03:40	Dr. M. Rajeevan Nair Secretary, MoES
03:40 - 04:30	Dr. Swapna Panickal Scientist'E', CCCR IITM, Pune

Hall C:

A Date With Data: The Inside Story

The session will lay emphasis on latest and current endeavours in the area of Data science, Internet of things (IoT), Artificial Intelligence (AI), Cyber Physical Systems (CP) and Cyber Security.

Time	Name of Speaker
10:00 - 11:00	Prof. Praveer Biswas Professor, Dept. of ECE, IIT, Kharagpur, West Bengal
11:00 - 12:00	Prof. Ashish Gosh Professor and Former Head, Machine Intelligence Unit In-Charge, Center for Soft Computing Research Indian Statistical Institute
12:00 - 01:00	Prof. Sandeep Shukla Professor, Department of Computer Science and Engineering, Indian Institute of Technology, Kanpur
02:00 - 03:00	Prof. Ashis Sengupta Professor, Indian Statistical Institute ISI, Kolkata
03:00 - 04:00	Dr. Vijay Saraswat Technology Fellow, Goldman Sachs, Former Distinguished Research Staff, Member of IBM/Chief Scientist of IBM Research Staff Member, IBM TJ Watson Research Lab
04:00 - 05:00	Prof. Ramesh Jain Director, Institute of Future Health, Donald Bren Professor in Information and Computer Sciences, Department of Computer Sciences, Bren School of Information and Computer Sciences, University of California

Hall D:

Career Interactive Session

Career Interactive Session provides opportunity to undergraduate students to explore the emerging fields of science and technology through interactive sessions in interdisciplinary fields. The speakers including serving and retired directors of various R&D institutions will speak for 20 minutes and students will get an opportunity to interact with them for the remaining time. The 3 hour session is open to students of all level preferably undergraduate students start from 2:00 pm.

Time	Name of Speaker
02:00 - 02:20	Dr. S. K. Barik, Director, NBRI
02:20 - 02:40	Dr. Alok Dhawan, Director, CSIR-Ind. Instt. Toxicology Research (IITR)
02:40 - 03:00	Dr. V. P. Kamboj, Former Director, Central Drug Research Institute (CDRI), Lucknow
03:00 - 03:20	Dr. P. K. Seth, Former Director, IITR & CEO, Biotech Park, Lucknow
03:20 - 03:40	Dr. A. K. Tripathi, Director, CSIR-Central Institute for Medicinal & Aromatic Plants (CIMAP)
03:40 - 04:00	Prof. Avinash Khare, Professor, Delhi University, Delhi

Guinness World Record

6-7 October, 2018

- **Most people conducting a DNA isolation experiment (October 6, 2018)**
Venue: GD Goenka School, Lucknow
- **Largest First Aid Lesson (October 7, 2018)** Venue: Inaugural Hall, IGP

COORDINATORS:

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VIBHA

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Ministry of Science and Technology is committed to motivate school students in taking up science as their career. In this regard, we are attempting to create two separate World Records in science with the school children.

The 1st attempt is to create a new record in the "Most people conducting a DNA isolation experiment" involving over 600 school students from various schools.

The 2nd attempt will be for creating a new record for the "Largest First Aid Lesson" involving 3000 school students from various schools across Lucknow.

Proper counting and monitoring mechanisms will be adopted. The aim of the programme is science popularization among students. There will be stewards & witness monitoring these events. The entire event will be observed and catalogued by the Judges from Guinness Book of World Record as well.

Student Engineering Model Competition

6-7 October, 2018 • Venue: G.D. Goenka Public School, Lucknow

COORDINATORS:

Sh. Sundeep Sarin
Sc 'G', DBT
Phone: 011-24362931

Dr. Alok Prakash Mittal
Member Secretary
AICTE

Dr. Meghendra Sharma
Secretary, Vigyan Bharathi
Phone: 9829021975,

We all are very familiar with projects/models competition and exhibitions. Schools, colleges, universities and some organizations keep on organizing such events. Solar electricity generation, cars, safety alarms etc. are the common topics of this competition. The engineering projects/models competition and exhibitions are not about repeating common familiar projects. Project competitions are not to judge who can make bigger or beautiful project that are already presented in many exhibitions, but to encourage students in addressing unsolved questions, to resolve day to day problems in scientific ways and to think how science can be used in a creative manner to address day to day problems.

Competition projects are not limited to research projects. Their purpose is to nurture the scientific interests of students and encourage their thoughts to explore science and make it usable to society at large. National mission including Digital India, Swachh Bharat, Make in India etc are changing the face of our nation and trying to build a new India. Engineering models with focus on these national missions can stimulate the progress of the missions and will create a pool of human resource for the nation building.

B.Tech/M.Tech, Polytechnic students of subjects Computer Science, Mechanical, Electrical, Electronics, Chemical, Civil Engineering and Allied sent their engineering models focusing on the national mission including Digital India, Make in India, Swachh Bharat, Swasth Bharat, Renewable energy projects. Selected models have been invited to the exhibition during IISF 2018.

PROGRAMME SCHEDULE

DAY 1

6 OCTOBER, 2018 (Saturday)

Time	Program
08:00 - 10:00	Registration for delegates (Students, Jury, Org. Committee) at GD Goenka public school, Lucknow
10:00- 11:00	Inaugural function of SEMC event at GD Goenka , Lucknow
11:00	Exhibition opening
11:00 - 12:00	High Tea (for VIP only)
11:00 - 05:00	Exhibition timing
02:00- 03:00	Lunch

DAY 2

7 OCTOBER, 2018 (Sunday)

Time	Program
10:00 - 04:00	Exhibition: Inauguration by Dr M Rajeevan Nair, Secretary, MoES
02:00 - 03:00	Lunch
04:00 - 05:30	Closing ceremony prizes, certificate, billing of delegates.

Nav Bharath Nirman

5 October, 2018 • Venue: Mercury hall, IGP

COORDINATORS:

Dr. Alka Sharma
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Dr. Gopal Iyenger
Sc 'G', Ministry of Earth Science
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Nav Bharat Nirman/Creation of new India is a concept focused on the innovative methods and solutions to overcome India's historical and social disadvantages along with problems created in the 21st century. The goal of competition programs 'Nav Bharat Nirman' is itself to answer the aforesaid issues. We are opening the platform to people across the spectrum to come up with the innovative and creative solutions through exploring the emerging fields of science and technology. Innovators will get an opportunity to expose their ideas and share the knowledge among them through the platform of Nav Bharat Nirman. Various Departments of Government of India can also be benefited from these fertile minds in their journey to transform India.

PROGRAMME SCHEDULE

DAY 1

5 OCTOBER, 2018 (Friday)

02:30 - 02:40	Welcome and about the Theme by Dr. Alka Sharma, Scientist 'G', DBT
02:40 - 02:45	Introduction of Juries by Dr. Sheethal Shinkhede, Baroda University, Baroda
	Presentations by the Winners and Runner-ups (15 minutes for each Problem Statement followed by interactive session)
02:45 - 03:00	Problem Statement 1: Innovate ideas for replacing plastic products
03:00 - 03:15	Problem Statement 2: Safety of Children in Cyber Space
03:15 - 03:30	Problem Statement 3: Ground Water Sustainability in water stressed areas
03:30 - 04:00	Tea Break
04:00 - 04:15	Problem Statement 4: Instantaneous determination of bacteriological contamination in drinking water
04:15 - 04:30	Problem Statement 5: Ergonomically designed affordable wearable air pollution mitigation system

04:30 - 04:45	Problem Statement 6 : Smart domestic electric energy management system
04:45 - 05:00	Problem Statement 7: Sustainable Cooling-low GWP and non-Ozone Depleting Substance (ODS) cost effective alternate cooling technologies
	Concluding Session
05:00 - 05:05	Welcome of Chief Guest Hon'ble Minister, Dr. Harsh Vardhan by Dr. Alka Sharma , Adviser, DBT and Lighting of Lamp
05:05 - 05:10	Address by Dr. Renu Swarup , Secretary, DBT
05:10 - 05:15	Key Note Address by the Chief Guest, Hon'ble Minister, Dr. Harsh Vardhan
05:15 - 05:27	Prize distribution
05:27 - 05:30	Vote of thanks by Dr. Gopal Iyenger , Scientist 'G', Ministry of Earth Science
	Exhibition
02:30 - 05:30	Display of 50 selected models/posters/ppt in their laptop

International Science Literature and Film Festival

“Science Communication for Transforming India”

4th India International Science Festival (IISF-2018)

**6-8 October 2018 • Venue: Atal Bihari Vajpayee Scientific Convention Centre
KGMU, Lucknow**

COORDINATORS:

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Science and Technology has helped humans overcome a variety of challenges ranging from healthcare, food security, environment, transport, energy, and so on. Developments in S&T are brought about by the ingenuity of the human mind and scientific literature holds the potential to spark imagination and creativity in the human mind, which eventually translates into S&T innovations and inventions.

Science literature has also been a means of educating not only the masses but also experts. Apart from science books, magazines, newspapers, and in today’s new age media websites, blogs, and a plethora of social media, science literature also encompasses science films and videos, science fiction, poetry, cartoon, drama employing various forms of traditional and modern communication modes.

The International Science Literature & Film Festival invites science writers, communicators, filmmakers, artistes, journalists, science enthusiasts, and students of science communication and mass communication to strengthen the public engagement of science and technology as well as promote scientific culture. The objective is to spark an interest and develop a trust for science and technology amongst the masses in general and youngsters in particular.

The International Science Literature & Film Festival also aims at showcasing India’s efforts in science promotion and deliberate on science communication for transforming India. The festival intends to communicate evidence-based science for public discourse. Capacity building workshops on various aspects of science communication, science film appreciation, round-table discussions, interactive sessions with eminent science communicators, authors, filmmakers, and much more are the major attractions of this Festival. An International Science Book Fair would be an added attraction at the Festival providing a platform for publishers and authors to display their science literature.

PROGRAMME SCHEDULE

DAY 1

6 OCTOBER, 2018 (Saturday)

08:00 am	Registration and Tea/ Coffee
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INAUGURAL SESSION AUDITORIUM B

09:30	<p>Welcome by: CSIR-NISCAIR</p> <p>Chair</p> <ul style="list-style-type: none"> • Sh. Baldeo Bhai Sharma, Chairman, National Book Trust and Professor (Eminent), School of Journalism, Mass Communication & New Media, Central University of Himachal Pradesh <p>Chief Guest</p> <ul style="list-style-type: none"> • Sh. Prakash Javadekar, Hon'ble Union Minister of Human Resource Development • Sh. Priyadarshan, Veteran Film Maker <p>Guests of Honour</p> <ul style="list-style-type: none"> • Dr. M. Rajeevan, Secretary, Ministry of Earth Sciences (MoES) • Sh. Jayant Sahasrabudde, Organising Secretary, Vijnana Bharati • Dr. Narender K Sehgal, UNESCO-Kalinga Prize Winner for Science Popularization • Prof. Shambhu Nath Singh, Director, School of Journalism and New Media Studies, IGNOU and Former Vice Chancellor, Patna University <p>Inaugural Films</p> <ul style="list-style-type: none"> • CSIR Stands with the People of Chennai by CSIR-NISCAIR • Ganga Haritima Abhiyaan: Ek Vyakti-Ek Vriksh, produced by Uttar Pradesh Forest and Wildlife Department and directed by Mike Hargovind Pandey <p>Release of Festival Book & Theme Book</p> <p>Performance</p> <p>India's space odyssey (Mohiniyattam) – Chandraayanam</p> <ul style="list-style-type: none"> • Jayaprabha Menon, Sreelekshmi Namboodiri, Krishna Priya, Shreya V and Thankam Krishnan <p>Vote of Thanks: Vigyan Prasar</p>
11:00	Tea/ Coffee

AUDITORIUM C

11:30	<p>Scientific Session 1</p> <p>Panel Discussion -Contemporary Science Literature: An Assessment</p> <p>Chairs</p> <ul style="list-style-type: none"> • Prof K. K. Dwivedi, Vice Chancellor, ITM University, Gwalior • Sh. Rajesh Badal, Former Executive Director, RSTV <p>Experts</p> <ul style="list-style-type: none"> • Sh. Sanjiv Goswami, Managing Director, Springer Nature India • Dr. Jagdish Chander, Scientist G, International Cooperation (Bilateral), DST • Dr. Arvind Mishra, Secretary, Indian Science Fiction Writers' Association • Dr. V.P. Singh, President, Indian Science Communication Society, Lucknow • Dr. Afrina Rizvi, Professor, Aligarh Muslim University, Aligarh • Dr. Kavita Bhatt, H.B. Garhwal Central University, Srinagar (Garhwal) • Dr. Anil Saumitra, Atal Bihari Vajpayee Hindi Viswavidyalaya, Bhopal • Dr. Ankuran Dutta, Head Department of Communication and Journalism, Gauhati University • Dr. Sarvendra Vikram Bahadur Singh, Director, Basic Education Govt. of Uttar Pradesh
01:00	Lunch
02:00	Proceed to Indira Gandhi Pratishthan, Lucknow for the IISF-2018 Inaugural Function

AUDITORIUM B

11:30	<p>Scientific Session 2</p> <p>Master Classes on Science Films</p> <ul style="list-style-type: none"> • Communicating Science through Films by Prof. Iftekar Ahmed, Director, AJK Mass Communication Research Centre, New Delhi • My Tryst with Science Programming by Sh. Pankaj Saxena, Film Academician, Formerly Vice President, Discovery Channel; Programme Head, BBC • Using Narratives and Story Telling to Communicate Science by Sh. Santosh Pandey, Sr. Producer, ETV Bharat, Ramoji Film City, Hyderabad
01:00	Lunch
02:00	Proceed to Indira Gandhi Pratishthan, Lucknow for the IISF-2018 Inaugural Function

AUDITORIUM C

09:30	<p>Scientific Session 3</p> <p>Vigyan Sahitya Charcha: Interaction with Authors</p> <p>Release of Book on Science Poems – Kavitayan Gyan ki Vigyan ki by Sh. C. P. Patsariya, Published by CSIR- NISCAIR</p> <p>Chairs</p> <ul style="list-style-type: none"> • Dr. Madhu Pant, Ex-Director, Bal Bhavan, New Delhi • Dr. D.C. Goswami, Science Communicator, Assam <p>Experts</p> <ul style="list-style-type: none"> • Dr. Devendra Mewari, Senior Hindi Science Fiction Writer, Delhi • Sh. Oum Prakash Sharma, Deputy Director, National Centre for Innovation in Distance Education, IGNOU, New Delhi • Prof. J Nandakumar, Assistant Professor, Jawaharlal Nehru University, New Delhi • Sh. AKVKS Sharma, Senior Principal Scientist, CSIR-CFTRI, Mysuru
10:30	Tea/ Coffee
10:45	<p>Scientific Session 4</p> <p>Workshop - Communicating Research to the Public</p> <p>Chairs</p> <ul style="list-style-type: none"> • Dr. S K Barik, Director, CSIR-National Botanical Research Institute, Lucknow • Dr. Raj Narayan Shukla dr. R. N. Shukla <p>Lead Speakers</p> <ul style="list-style-type: none"> • Dr. Rakesh Kumar, Director, CSIR-National Environmental Engineering Research Institute, Nagpur • Dr. Ricky Kej, Grammy Award Winner, conservationist, Bengaluru <p>Experts</p> <ul style="list-style-type: none"> • Dr. Jagdeep Saxena, Former Editor, DKMA, ICAR • Dr. Kanan Purkayastha, Writer, Britain • Dr. Anil Kumar Rai, Professor & Head, Department of Mass Communication, Mahatma Gandhi Antrarashtriya Hindi Vishwavidyalaya, Wardha
11:45	Tea/ Coffee

12:00	<p>Scientific Session 5</p> <p>Seminar - Innovative Approaches to Science Communication</p> <p>Chairs</p> <ul style="list-style-type: none"> • Prof. Anil K. Tripathi, Director, CSIR-CIMAP, Lucknow • Dr. Dinesh Kumar, Ex-Director, Institute of Science & Technology, University of Lucknow <p>Lead Speakers</p> <ul style="list-style-type: none"> • Dr. Gary Kerr, Assistant Professor (Lecturer), Edinburgh Napier University • Prof. M. Sai Baba, T.V. Raman Pai Chair Professor and Principal Scientist, National Institute of Advanced Studies (NIAS), Bengaluru <p>Paper Presentation</p> <p>Selected research papers</p> <ul style="list-style-type: none"> • Dr. Sanghamitra Deobhanj, The Story of The Rice Expert: Exploring New Vistas of Science Communication • Bakul Srimany, The Social Web as a Communication Tool in Indian Science Communication • Dr. Snigdha Panda, Promoting Science Communication among Scheduled Tribe Students through Museum • Srinidhi T G, Using Technology to Communicate Science in Regional Languages: Experiences from Karnataka • Gurshaminder Singh, Sh. Anil Sharma and Sh. Y.S. Bagal, Gain in knowledge level of farmers about recommended agricultural practices after watching video films • Dr. Gagandeep Kaur and Dr. Harinder Pal Singh Kalra, Science literature in Indian languages: A study of Punjabi language
01:00	Lunch
02:00	<p>Scientific Session 6</p> <p>Scientoon Workshop and Competition</p> <p>Chairs</p> <ul style="list-style-type: none"> • Prof. Raja Ram Yadav, Vice-Chancellor, Veer Bahadur Singh Purvanchal University, Jaunpur • Prof. Tapas K Kundu, Director, CSIR-Central Drug Research Institute, Lucknow <p>Workshop by</p> <ul style="list-style-type: none"> • Dr. Pradeep Kumar Srivastava, Scientoonist, Lucknow <p>Discussants</p> <ul style="list-style-type: none"> • Sh. Vishal Muliya, Christ College, Rajkot • Sh. Amritesh Srivastava, Media Manager, NPCIL, Mumbai
03:00	Tea/ Coffee

03:15	Film Screening Session 1 Screening of Indian Competitive Science Films
05:15	Film Screening Session 2 Screening of Foreign Science Films

AUDITORIUM B

09:30	Film Screening Session 3 Screening of Indian Competitive Science Films
10:30	<p>Scientific Session 7</p> <p>Jury's view on Competitive Indian Science Films</p> <ul style="list-style-type: none"> • Prof. Shambhu Nath Singh – Chairman, Jury • Sh. Pankaj Saxena – Member, Jury • Sh. Himanshu Malhotra – Member, Jury • Ms Gauri D. Chakraborty – Member, Jury • Dr. Suparna Dutta – Member, Jury • Sh. Subhash Thaledi – Member, Nomination Jury • Sh. Nimish Kapoor, Member, Convener
11:15	Tea/ Coffee
11:30	<p>Scientific Session 8</p> <p>Science Film Appreciation: Screening of Science Films and interaction with Film-makers</p> <p>Chair</p> <ul style="list-style-type: none"> • Dr. Pradeep Kumar Srivastava, Former Dy. Director CSIR-CDRI, Lucknow <p>Experts</p> <ul style="list-style-type: none"> • Sh. Andres Palacios, Deutsche Welle (DW), Germany and Sh. Mahesh Jha, Teamleiter, Deutsche Welle (DW)-Hindi, Germany: Communication Science & Technology through Manthan, a weekly TV magazine • Ms Seema Muralidhara, Sr. Science Film-maker; Director, Beacon Television, Mumbai: Jack of All Trades, Master of Some: Director's Perspective • Dr Sabina Kidwai, Associate Professor, AJK MCRC, New Delhi: Understanding science through Environment Films and Sh. Himanshu Malhotra, Wild Life Film-maker, New Delhi • Sh. Nandan Kudhyadi, Sr. Science Film-Maker, Pune: Themes and Approaches for Science Films
01:00	Lunch

02:00	<p>Scientific Session 9</p> <p>Panel Discussion – How can Science & Environment Films bring changes locally, nationally and globally?</p> <p>Chairs:</p> <ul style="list-style-type: none"> • Dr Mike Pandey, Brand Ambassador of Eco-Tourism in Uttar Pradesh, Environmentalist, Veteran Science & Wild Life Filmmaker • Sh. Chander Mohan, Chair Professor in Tribal Studies, Jawaharlal Nehru University, New Delhi, Former Adviser & Scientist G, DST <p>Experts:</p> <ul style="list-style-type: none"> • Sh. Santosh Pandey, Sr. Producer, ETV Bharat, Ramoji Film City, Hyderabad • Sh. G. Unnikrishnan Nair, Deputy Director, Agriculture, Govt. of Kerala Thiruvananthapuram and Sr. Science Film-maker • Sh. Jalaluddin Baba, Guerrilla Green Filmmaker/Activist/Writer, Srinagar, Jammu and Kashmir • Dr Upendra Pandey, Chief News Coordinator, The Tribune, Chandigarh and Sr. Science Communicator • Ms Rama Arun Trivedi, Programme Head, Doordarshan, Lucknow • Sh. Subhash Thaledi, Asst. Director, Programmes, Doordarshan Directorate, New Delhi • Ms Lovita J.R. Morong, Green Oscar Entrant filmmaker/Artist/Scriptwriter/Poet, Guwahati, Assam
03:30	Tea/ Coffee
04:00	<p>Scientific Session 10</p> <p>A Journey through Science Film Making: Interaction with Dr Mike Pandey followed by screening of Green Oscar awarded films</p> <ul style="list-style-type: none"> • The Last Migration - Wild Elephant Capture in Surguja • Shores of Silence: Whale Sharks in India, • Vanishing Giants • Timeless Traveller- The Horseshoe Crab

DAY 3**8 OCTOBER, 2018 (Monday)****AUDITORIUM C**

09:30	Scientific Session 11 Science Film-making: Orientation Workshop Chairs <ul style="list-style-type: none"> • Dr. C. M. Nautiyal, Consultant, Science Communication Programmes, Indian National Science Academy, New Delhi • Dr. Raj Mehrotra, Head, Regional Science City, NCSM, Lucknow Experts <ul style="list-style-type: none"> • Sh. H.B. Muralidhara, Sr. Science Film-maker, Mumbai: 'Camera' from the Directors Point of View • Sh. Biju Pankaj, Science film-maker, Bureau Chief, Mathrubhumi Television, Kochi, Kerala: Science in Environmental and Wildlife Filmmaking • Sh. Ritesh Taksande, Director, First Film.Com; Trainer at FTII, Pune: Mobile Science Film Making • Sh. Jaya Jose Raj, Filmmaker, Thiruvananthapuram: Scripting for Science Films
11:00	Tea/ Coffee
11:30	Film Screening Session 4 Screening of Foreign Science Films
01:00	Lunch

AUDITORIUM B

09:30	Scientific Session 12 Chaupal – Science through Folklore Chairs <ul style="list-style-type: none"> • Prof. Alok Dhawan, Director, CSIR-Indian Institute of Toxicological Research, Lucknow • Dr. Denzil J. Godin, Lucknow Christian College, Lucknow Experts <ul style="list-style-type: none"> • Dr. Padmaja Suresh, Bengluru, Experienced and noted artiste of Bharatanatyam, teacher, researcher, TV host and social worker • Ms Abhinaya Naga Jothy, Delhi-based Kuchipudi exponent and researcher
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	<ul style="list-style-type: none"> • Dr. Govinda Varma Raja, Former HOD, Dept of Folklore Calicut University Connecting folklore to the Science Teaching and also Folk technologies of Artists with select examples from the Case Study- thirayattam performance <p>Performance by:</p> <ul style="list-style-type: none"> • Dr. Peethambaran K.C., President, Ethnic Arts Council of India, Kozhikode • Dr. RethiThampatty P.C., Former Principal, Zamorins Guruvayurappan College, Calicut • Dr. Vijisha P., Faculty, School of Ethnic Studies • Sh. Sunil Kumar K.C. and Sh. Hari Kumar K.C., Ritual Drummer
11:00	Tea/ Coffee
11:30	<p>Scientific Session 13</p> <p>Round Table Meet and Summing Up: Science Outreach – Looking Ahead</p> <p>Chairs</p> <ul style="list-style-type: none"> • Dr. Harsh Vardhan, Hon’ble Minister of Science & Technology, Earth Sciences and Environment, Forest & Climate Change • Sh. A. Jayakumar, Secretary General, VIBHA <p>Experts</p> <ul style="list-style-type: none"> • Dr Manoj Kumar Patariya, Director, CSIR-NISCAIR • Sh. Nalaka Gunawardene, Science Communicator, Sri Lanka • Dr. Sanat Kumar Sharma, B. P. Koirala Memorial Planetarium, Observatory and Science Museum Development Board, Nepal • Dr. Sung-Kyum Cho, Chungnam National University, Korea • Prof. Gabriel Gomez, Professor, Chicago University, USA • Dr. V. K. Srivastava, President, Indian Science Writers’ Association, New Delhi • Dr. Yashwant Singh, Professor, Department of Linguistics, Manipur Univeristy, Imphal, Manipur • Sh. Raj Kumar Bhardwaj, Director, Educational Multimedia Research Centre (EMMRC), IIT Roorkee Campus • Sh. Pallava Bagla, Science Editor, NDTV
01:00	Lunch
02:00	Distribution of Certificates & Proceed to Indira Gandhi Pratishthan, Lucknow for IISF 2018 Valedictory Session

Science Film Screening Schedule

PROGRAMME SCHEDULE

DAY 2

7 OCTOBER, 2018 (Sunday)

09:30 to 10:30

**Screening of Indian Competitive Science Films
Category: Ignited India (Films made by College Students)**

AUDITORIUM B

S. N.	Title of the Film	Duration	Language	Director / Producer
1.	Anndaata	00:09:58	Hindi	Raushan Kumar / DAV University, Jalandhar
2.	Fishing in Ganges	00:09:50	English	Ankan Kumar Pal / Vijaygarh Jyotish Ray College, Kolkata
3.	Fostering Sustainable Green	00:09:59	English	RITABRITA MAITY / Vijaygarh Jyotish Ray College, Kolkata
4.	Green Soil	00:05:01	English, Hindi	KEERTHI RAJ B S /Vivek Kannadi, Science Media Centre, IISER Pune
5.	Hydroelectric Cell Invention: A Venture In Clean Energy	00:06:37	English, Hindi	Tushar Jha , Arni Gaur/ Birla Institute of Technology
6.	Kisi ko Batana Nahin	00:08:05	Hindi	Jayant Ray / Kushabh Thakre Patrkari avam Jansanchar Vishvavidyalaya Raipur, Chhattisgarh
7.	Plastic- A Monstrous Story	00:08:15	Hindi	Karishma Shakhla / Govt. Dungar college, Bikaner, Rajasthan
8.	SWWAMPURNA 2: Beyond 'PADMAN' A Short Sci Film on Menstrual Taboos, Health and Hygiene	00:09:59	English	Tanvi / Birla Institute of Technology, Mesra, Off Campus Noida

DAY 2

7 OCTOBER, 2018 (Sunday)

03:15 to 5:15

AUDITORIUM B

**Screening of Indian Competitive Science Films
Category: Ignited India (Films made by College Students)**

S. N.	Title of the Film	Duration	Language	Director / Producer
1.	Poison in Food	00:09:59	English	BISHAL SENGUPTA /Vijaygarh Jyotish Ray College, Kolkata
2.	Wetland - The Multi Functional Ecosystem	00:09:59	English	Ujjwal Gayen / Vijaygarh Jyotish Ray College, Kolkata

Category: Innovative India (Films made by Research Scholars)

S. N.	Title of the Film	Duration	Language	Director / Producer
1.	In Memory of the Master	00:09:59	English	Jyotirmay Deb
2.	Pratikriya	00:06:45	Hindi	Abhinav and Bharti
3.	Stepwells- Elixir of Water Restoration Heritage Assets	00:10:02	English	Pooja Vyas

Category: Inspired India (Films made by School Students)

S. N.	Title of the Film	Duration	Language	Director / Producer
1.	Achal-A Space Settlement	00:05:38	English	Harshit Parikh / Utpal Shanghvi Global School, Mumbai
2.	Automating Agriculture	00:05:04	English	Rishu Tiwari / Gurjot Kaur
3.	Bicycle	0:07:05	Marathi	Sidharth Balkrishna Damle/ ACRT, Pune
4.	Dream of a Green World	00:07:30	Hindi	Smriti Pandey/ St. Mary's Convent College, Nainital, Uttarakhand
5.	Dump the Junk	00:05:16	English	Afreen Kapoor
6.	E-Book	00:01:36	English	Manish Kumar/ Ramendra Singh Kushwaha
7.	Everyone is Unique	00:10:01	English	Alina Naqshbandi, Priya Wagh/ Stepping Stones High School, Aurangabad
8.	Grandma's Home Remedies (AjibaichaBatva)	00:09:57	Marathi	Kasturi Milind Kulkarni
9.	Ruchi	00:03:01	Hindi	Manish Kumar/Junior High School, Shivganj, Auraiya, UP
10.	We Didn't Start the Fire	00:07:56	English	Afreen Kapoor

DAY 2**7 OCTOBER, 2018 (Sunday)****05:15 to 06:15****Screening of Foreign Science Films – Non competitive****AUDITORIUM C**

S. N.	Title of the Film	Duration	Language	Director / Producer	Country
1.	One Point Seven	00:16:30	English	Andreas Van De Laar	Netherlands
2.	A Changing Environment – Snow, water, ice and permafrost in the Arctic	00:15:43	English	Alphafilm / SWIPA	Denmark
3.	B-Roll Cashless Society	00:07:54	English	Embassy of Sweden	Sweden
4.	B-Roll Waste to Energy	00:09:40	English	Embassy of Sweden	Sweden
5.	Sweden, Leading the World in Innovation	00:05:18	English	Embassy of Sweden	Sweden

DAY 3**8 OCTOBER, 2018 (Monday)****11:30 to 12:30****Screening of Foreign Science Films – Non competitive****AUDITORIUM C**

1.	Living Amid the Ruins	00:13:20	English	Işıl Gürsu and Ekin Kazan / BIAA	United Kingdom
2.	Using crowd psychology to boost public safety	00:03:20	English	Chocolate Films / ESRC	United Kingdom
3.	Cutting carbon footprints in the service sector	00:04:12	English	Impact Media Specialists/ESRC	United Kingdom
4.	Research prompts public data on police use of force	00:03:18	English	Impact Media Specialists/ESRC	United Kingdom
5.	Future of the Cities	00:03:55	English	Impact Media Specialists/ESRC	United Kingdom
6.	BBSRC – Harvest 2050	00:04:16	English	David Martin, Impact Media Specialists Ltd	United Kingdom

7.	Camelina: The quest for Omega-3	00:06:54	English	Paul Langcaster, BBSRC	United Kingdom
8.	Air Pollution	00:01:24	English	Green TV for UKRI's NERC	United Kingdom
9.	Research and Innovation for Zero Plastic Waste	00:02:45	English	CASS Productions for UKRI's NERC	United Kingdom
10.	Discovery of the Ozone Hole	00:01:57	English	UKRI's NERC	United Kingdom
11.	People of Science: David Attenborough and Brian Cox (chosen scientist Charles Darwin)	00:04:18	English	The Royal Society	United Kingdom
12.	People of Science: Bill Bryson and Brian Cox (chosen scientist Benjamin Franklin FRS)	00:04:18	English	The Royal Society	United Kingdom
13.	People of Science: Dame Julia Higgins and Brian Cox (chosen scientist Michael Faraday)	00:04:22	English	The Royal Society	United Kingdom
14.	People of Science: Sally Davies and Brian Cox (chosen scientist Fleming and Florey)	00:05:27	English	The Royal Society	United Kingdom

Parallel Event: International Science Book Fair 7th October 2018

Crafts and Artisan Demo

7 October, 2018: Conference on Development and Promotion of Arts and Crafts
Venue: VVIP Lounge - Earth Complex, IGP

7-8 October, 2018: Crafts and Artisan's Demo • Venue: Railway Ground, Gomti Nagar

COORDINATORS:

Dr. Alka Sharma

Sc 'G', DBT

Phone 011-24363699

Dr. Niloo Srivastava

Sc 'E', DBT

Phone 011-49166740

Dr. Rajeev Singh

Assistant Professor, ARSD (DU)

Phone 9311225501

Highlighting Science involved in Indian Art and Crafts:

A National level Handicrafts and Handloom Expo showcasing the Art and Crafts from across the country will be a special attraction of IISF 2018. Crafts persons and artisans shall converge at the event to display their fascinating and unique handicrafts and handloom items along with some unique eco-friendly sustainable products. Leading cultural institutions, individuals, organizations, and art foundations have been invited to present elements of their ingenuity.

PROGRAMME SCHEDULE

Timings	Inauguration (10.30-11.15 AM)
10:30 - 10:40	Welcome and about the Theme by Dr. Alka Sharma , Scientist 'G', DBT
10:40 - 10:45	Lighting of the lamp
10:45 - 10:55	Address by Sh. A. Jayakumar , Special Adviser, VIBHA
10:55 - 11:10	Address by the Chief Guest
11:10 - 11:15	Introduction of Speakers by Dr. Rajeev Singh , ARSD College, New Delhi
11:15 - 11:45	Tea Break
11:45 - 12:15	Prof. Sharada Srinivasan Professor & Dean, National Institute of Advanced Studies Indian Institute of Sciences, Bengluru Metal Crafts Heritage of India
12:15 - 12:45	Dr. Vinod Vidhwans Dean, Chair - Faculty of Fine & Performing Arts FLAME University, Pune 'Bharat Veena': A Synthesis of Physics, Music and Aesthetics

12:45 - 01:15	Sh. Mallisham Chintakadi Padam Shri, TEDx Speaker, Inventor of Laxmi Asu Machine “To reduce Mother’s pain...”
01:15 - 02:15	Lunch Break
02:15 - 02:45	Dr. Abhinav Kant In charge, Bamboo and Cane Development Institute, Agartala Bamboo: Skill, Design and Technology
02:45 - 03:15	Dr. Ratan Kumar Principal, Lucknow College of Arts and Crafts, Lucknow
03:15 - 03:45	Tea Break
03:45 - 04:15	Sh. Debashish Adhikary Pracheen Kala Kendra, New Delhi “Effects of Music on Human Body and the Science Behind it”
04:15 - 04:45	Workshop on Madhubani Painting by Santosh Paswan
04:45 - 05:15	Workshop on Calligraphy
05:15 - 05:20	Vote of Thanks, Dr. Niloo Srivastava , DBT

Clean Air Campaign

7 October, 2018 • Venue: Neptune Hall, IGP

COORDINATORS:

Dr. Sanjay Kalia

Scientist 'E', DBT

Ph. No. 011-24362338

Dr. Rajneesh K Gaur

Scientist 'E', DBT

Ph. No. 011-24362338

Dr A. K. Mehta

Joint Secretary, MoEFCC

Ph. No. 011-24695130

Dr. Sumit K. Mishra

Sr. Scientist, CSIR-NPL

Ph. No. 9911920419

The present government has formulated a National Clean Air programme as a medium term national level strategy to tackle the increasing air pollution problem across the country in a comprehensive manner. The objective of this programme is to evolve effective ambient air quality monitoring network across the country besides ensuring comprehensive management plan for prevention, control and abatement of air pollution. This programme focuses on collaborative and participatory approach covering all sources of pollution and coordination between relevant Central Ministries, State Governments, local bodies and other stakeholders. The use of cutting edge technologies to combat the rising challenge of air pollution in India is a must.

The Clean Air Campaign activity in IISF 2018 aims to sensitize the mass about the increasing air pollution problem across the country and its plausible implications on human health and climate. This activity plans to sensitize the mass about their green social responsibility to curb the air pollution and also inspires our children to become 'Green Sainiks' in fight against air pollution. The campaign provides a suitable platform for interactions amongst non-government organizations (NGOs), civil society citizens and academic and R&D institutions. The Clean Air Campaign activity is planned for the whole day comprising of popular lectures by eminent air pollution experts, showcasing of Air Pollution Measuring/Mitigation Technologies, Puppet/Nukkad Natak shows and drawing competitions.

PROGRAMME SCHEDULE

DAY 1

7 OCTOBER, 2018 (Sunday)

Time	Activity	Guest/Speaker
9:30 - 10:30	Inauguration	By Dr Mahesh Sharma
10:30 - 10:50	Tea	
10:50- 01:10	Plenary Talks (#4) [35 minute each]	Sh. C. K. Mishra, Secretary, MoEF
		Sh. S P S Parihar, Chairman, CPCB
		Dr Ajay Mathur, DG, TERI
		Dr. D. K. Aswal, Director, CSIR-NPL
01:10 - 02:30	Lunch	
02:30 - 04:30	Invited Talks (#6) [20 minute each]	Dr. J. R. Bhatt, Adviser, MoEF
		Prof. Mukesh Sharma, IITK
		Prof. Mukesh Khare, IIT, Delhi
		Prof. Uma Kumar, AIIMS, New Delhi
		Dr. C. Sharma, CSIR-NPL
		Adv. Dr. Sourabh Mishra, Supreme Court
04:30 - 04:45	Tea	
04:45 - 05:30	Valediction	By Sh. Dara Singh, Uttar Pradesh

- Drawing competition 10 AM to 12 Noon (parallel for three class categories)
- Nukkad Natak—throughout day (Only two shows, One in the forenoon & the other in the afternoon)
- Puppet Shows —throughout day (4-5 shows for the whole day)
- Stalls (Air pollution measurement and mitigation technologies)—throughout day

Mega Science, Technology & Industry Expo

5 - 8 October, 2018 • Venue: Railway Ground, Gomti Nagar

COORDINATORS:

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Mega Science, Technology & Industry Expo

October 05-08, 2018

This Expo will highlight the achievements and success stories of Indian Scientific/Academic Organizations, R&D Labs, PSUs and Indian Industry. IISF 2018 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 2018 Expo will be a comprehensive show of Scientific, Technological and Industrial Programme and Achievements of India.

- Inauguration by Hon'ble Minister for S&T and Earth Sciences at 10:30
- Exhibition will be open every day from 10:00 AM to 7:30 PM except on 8th October when it will end at 05:30 PM

Highlights of IISF 2018 Expo:

- **Number of Stalls: 900**
- **Number of Participant Organisations: 300**
- **Expecting Visitors: 6 lakhs**

I. Participant Organisations:-

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

All the Autonomous Institutions and associate Units of the following Organisation are taking part in IISF 2018 Mega Science, Technology & Industry Expo.

Department of Biotechnology (DBT)

Department of Science & Technology (DST)

Indian Space Research Organisation (ISRO)

Indian Council of Medical Research (ICMR)

Council of Scientific and Industrial Research (CSIR)

Defence Research and Development Organisation (DRDO)
Indian Council of Agricultural Research (ICAR)
Department of Atomic Energy (DAE)
Ministry of Earth Sciences (MoES)
Ministry of Environment, Forest & Climate Change (MoEF&CC)
Ministry of Electronics and Information Technology (MeitY)
Ministry of AYUSH

B. Participant Mega Institutions/Organisations and Ministries:-

All India Council for Technical Education (AICTE)
BrahMos Aerospace
Software Technology Parks of India (STPI)
National Mission for Clean Ganga
Bharat Dynamics Limited (BDL)
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 Authority of India (NHAI)
Shipping Corporation of India
HP India
Ministry of Railways
RDSO
National Biodiversity Authority (NBA)
Neyveli Lignite Corporation (NLC)
Shri Mata Vaishno Devi University
National Handlooms Development Corporation
National Institute of Pharmaceutical Education and Research (NIPER), Guwahati
Centre for Development of Telematics, Delhi

Rajiv Gandhi Proudhyogiki Vishwavidyalaya

Translational Research Platform for Veterinary Biologicals (TRPVB), Chennai

Maharashtra Hybrid Seeds Co.Pvt. Ltd. (MAHYCO)

Maharashtra Remote Sensing

North-Eastern Space Applications Centre

Bharat Broadband Network Limited

Central Silk Board

National Research Laboratory for Conservation of Cultural Property

Oil Industry Development Board

Inter-University Accelerator Centre

Vijnana Bharati NBO Association - VIBHA VANI

Vijnana Bharati Home Pavilion

C. State Government Representation: -

All the State Governments have represented their Programmes on Science & Technology, Energy, Remote Sensing, Agriculture, Bio-Technology and presented the massive “Vibrant India” Pavilion.

D. Small Scale Industries: -

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

E. State Pavilions: -

All the States are displaying their outstanding achievements.

F. Handicrafts and Handlooms Expo: -

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

I. 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.

Various Technologies developed by Indian Scientific and R & D Institutions across the Country will be on the display to educate Students, Young Scientists and general Public

Outreach Programme

COORDINATORS:

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Dr. Sachin Mandavgane

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In the month of September, institutes across India opened their labs to the public for one (or two) day(s) and showcased their scientific achievements and research facilities to students, the general public and local media. The lab organised lab tours, exhibitions, popular lectures, scientist-student/public interaction, interactive games/activities on research topics, competitions and much more!

The Outreach programme was organised in the following labs between 1st September to 7th October, 2018.

PROGRAMME SCHEDULE

Ahmedabad	<ul style="list-style-type: none">• National Innovation Foundation, DST• Vikram Sarabhai Space Exhibition - Space Applications Centre, ISRO
Ajitgarh District (S.A.S. Nagar district)	<ul style="list-style-type: none">• National Agri-Food Biotechnology Institute, DBT• Semi-Conductor Laboratory, ISRO
Bengaluru	<ul style="list-style-type: none">• National Aerospace Laboratories, CSIR• Indian Institute of Astrophysics, DST• Jawaharlal Nehru Centre for Advanced Scientific Research, DST• Raman Research Institute, DST• The National Centre for Disease Informatics and Research, ICMR• ISRO Telemetry, Tracking and Command Network, ISRO
Bhavnagar	<ul style="list-style-type: none">• Central Salt Marine Chemicals Research Institute, CSIR
Bhopal	<ul style="list-style-type: none">• Advanced Materials and Processes Research Institute, CSIR
Bhubaneswar	<ul style="list-style-type: none">• Institute of Minerals and Materials Technology, CSIR• Institute of Life Sciences, DBT• Regional Medical Research Centre, ICMR
Chandigarh	<ul style="list-style-type: none">• Central Scientific Instruments Organisation, CSIR• Institute of Microbial Technology, CSIR
Chennai	<ul style="list-style-type: none">• Central Leather Research Institute, CSIR• Structural Engineering Research Centre, CSIR• National Institute of Epidemiology, ICMR• National Institute of Ocean Technology, MoES

Dehradun	<ul style="list-style-type: none"> • Indian Institute of Petroleum, CSIR • Wadia Institute of Himalayan Geology, DST
Delhi	<ul style="list-style-type: none"> • Central Road Research Institute, CSIR • Institute of Genomics and Integrative Biology, CSIR • National Physical Laboratory, CSIR • National Institute of Science Communication and Information Resources, CSIR • National Institute of Immunology, DBT • National Institute of Plant Genome Research, DBT
Dhanbad	<ul style="list-style-type: none"> • Central Institute of Mining and Fuel Research, CSIR
Dibrugarh	<ul style="list-style-type: none"> • Regional Medical Research Centre, ICMR
Dona Paula	<ul style="list-style-type: none"> • National Institute of Oceanography, CSIR
Faridabad	<ul style="list-style-type: none"> • Regional Centre for Biotechnology, DBT
Gurugram	<ul style="list-style-type: none"> • National Brain Research Centre, DBT
Guwahati	<ul style="list-style-type: none"> • Institute of Advanced Study in Science and Technology, DST
Hyderabad	<ul style="list-style-type: none"> • Centre for Cellular Molecular Biology, CSIR • Indian Institute of Chemical Technology, CSIR • National Geophysical Research Institute, CSIR • Centre for DNA Fingerprinting and Diagnostics, DBT • National Institute of Animal Biotechnology, DBT • National Institute of Nutrition, ICMR • National Remote Sensing Centre, ISRO • Indian National Centre for Ocean Information Services, MoES
Imphal	<ul style="list-style-type: none"> • Institute of Bioresources and Sustainable Development, DBT
Jammu	<ul style="list-style-type: none"> • Indian Institute of Integrative Medicine, CSIR
Jamshedpur	<ul style="list-style-type: none"> • National Metallurgical Laboratory, CSIR
Karakudi	<ul style="list-style-type: none"> • Central Electrochemical Research Institute, CSIR
Kochi	<ul style="list-style-type: none"> • Centre for Marine Living Resources & Ecology, MoES
Kolkata	<ul style="list-style-type: none"> • Central Glass Ceramic Research Institute, CSIR • The National Institute of Biomedical Genomics, DBT • S. N. Bose National Centre for Basic Sciences, DST • National Institute of Cholera and Enteric Diseases, ICMR

Lucknow	<ul style="list-style-type: none"> • Central Drug Research Institute, CSIR • Indian Institute of Toxicology Research, CSIR • National Botanical Research Institute, CSIR • Birbal Sahni Institute of Palaeobotany, DST • Shri Ramswaroop Memorial University
Mohali	<ul style="list-style-type: none"> • Center of Innovative and Applied Bioprocessing, DBT • Institute of Nano Science and Technology, DST
Mumbai	<ul style="list-style-type: none"> • National Institute of Immunohaematology, ICMR
Mysore	<ul style="list-style-type: none"> • Central Food Technological Research Institute, CSIR
Nagpur	<ul style="list-style-type: none"> • National Environmental Engineering Research Institute, CSIR
Nainital	<ul style="list-style-type: none"> • Aryabhata Research Institute of Observational Sciences, DST
Navi Mumbai	<ul style="list-style-type: none"> • Indian Institute of Geomagnetism, DST
Noida	<ul style="list-style-type: none"> • National Institute of Cancer Prevention and Research, ICMR • National Centre for Medium Range Weather Forecasting, MoES
Palampur	<ul style="list-style-type: none"> • Institute of Himalayan Bioresource Technology, CSIR
Pali	<ul style="list-style-type: none"> • Translational Health Science and Technology Institute, DBT
Pilani	<ul style="list-style-type: none"> • Central Electronics Engineering Research Institute, CSIR
Puducherry	<ul style="list-style-type: none"> • Vector Control Research Center, ICMR
Pune	<ul style="list-style-type: none"> • National Chemical Laboratory, CSIR • Unit for Research and Development of Information Products, CSIR • National Centre for Cell Science, DBT • Agharkar Research Institute, DST • National AIDS Research Institute, ICMR
Roorkee	<ul style="list-style-type: none"> • Central Building Research Institute, CSIR
Thiruvananthapuram	<ul style="list-style-type: none"> • Rajiv Gandhi Centre for Biotechnology, DBT • Sree Chitra Tirunal Institute for Medical Sciences & Technology, DST • National Institute For Interdisciplinary Science and Technology, CSIR
Vasco-da-Gama	<ul style="list-style-type: none"> • National Centre for Antarctic and Ocean Research, MoES

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