



INDIA INTERNATIONAL SCIENCE FESTIVAL 2018

5-8 October, 2018
Indira Gandhi Pratishthan, Lucknow



सत्यमेव जयते
MINISTRY OF SCIENCE & TECHNOLOGY



सत्यमेव जयते
MINISTRY OF EARTH SCIENCES



सत्यमेव जयते
DEPARTMENT OF BIOTECHNOLOGY



NATIONAL INSTITUTE OF
IMMUNOLOGY



Prof Ashutosh Sharma

Secretary, Department of Science & Technology

To strengthen nation and to achieve inclusive and sustainable growth in the coming decades, it is very important to translate the scientific knowledge into innovations through start-ups and industry.

This goal can be achieved through developing scientific temper among the masses and by strengthening science and technology institutions & furthering their basic research. The prime objective of the India International Science Festival is to instill scientific temper among the masses and showcasing India's contribution in the field of S&T over the years.



Dr M Rajeevan

Secretary, Ministry of Earth Sciences

A nation's development and prosperity is judged to a large extent by the status of science and technology of that nation.

The India International Science Festival aims to strengthen and integrate the scientific knowledge in accordance with the changing conditions. It also aims to promote to build scientific temper among the masses and the young children.

I wish all the stake holders of science and technology who are part of this programme and allied organizations a grand success.



Dr Girish Sahni

DG, CSIR & Secretary, DSIR

The relationship between Science and Society has always led to the development of new frontiers of growth both scientifically and economically. India International Science Festival (IISF) over the years has established itself as an unique platform for connecting science, technology & innovation with the masses be they students, entrepreneurs, teachers or the general public.



Dr Vijay P Bhatkar

President, Vijnana Bharati

India International Science Festival (IISF) has emerged as a unique platform to celebrate the achievements of science and technology for national development. With the grand success of IISF 2015, IISF 2016 & IISF 2017, we are now looking forward to scintillating success of IISF 2018 in the historic city of Lucknow.



डॉ. हर्ष वर्धन
DR. HARSH VARDHAN



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

MINISTER
SCIENCE & TECHNOLOGY AND EARTH SCIENCES
GOVERNMENT OF INDIA
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 ITRC 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)



योगी आदित्यनाथ

संख्या- ओ-

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मुख्य मंत्री
उत्तर प्रदेश




दिनांक :

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)

लाल बहादुर शास्त्री भवन, लखनऊ



डॉ. रेणु स्वरूप
DR. RENU SWARUP



सचिव
भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
जैव प्रौद्योगिकी विभाग
ब्लॉक-2, 7वां तल, सी0 जी0 ओ0 काम्पलेक्स
लोधी रोड, नई दिल्ली-110003
SECRETARY
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
Block-2, 7th Floor, C.G.O. Complex
Lodhi Road, New Delhi-110003

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)



INDIA INTERNATIONAL SCIENCE FESTIVAL 2018

INTRODUCTION/ MISSION STATEMENT

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, shows, 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 could lead India towards a developed nation within a short span of time. The aim is to engage public with science and celebrate the joy of science and show the ways 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 India International Science Festival which intends to inspire curiosity and make learning more rewarding.

The goal of the Science festivity is to help youth, develop 21st century skills, with a focus on scientific knowledge, creativity, critical thinking, problem-solving, and teamwork. One long-term objective is to encourage students to study and work in scientific fields. The focus on the myriad faces behind some of the fascinating discoveries will inject scientific attitude in the masses and will give us the power to create new possibilities. Once we get young people interested in acquiring new knowledge, asking questions, and starting the quest for the answers, we will accomplish our goal. IISF is a science outreach marathon not a science sprint. We hope, this effort will fuel India's drive toward becoming Vishwa Guru.

IISF 2018 is being organized by Ministry of Science and Technology, Ministry of Earth Sciences in association with Vijnana Bharati. This year it is being coordinated by Department of Biotechnology (DBT), and the nodal agency is National Institute of Immunology (NII).



“

Spirituality as a science, as a study, is the greatest and healthiest exercise that the human mind can have

Swami Vivekananda



“

In the history of science, we often find that the study of some natural phenomenon has been the starting point in the development of a new branch of knowledge

Sir CV Raman

BACKGROUND

The previous editions of IISF had been a great success. The first and second chapters were held in New Delhi whereas the third edition was held in Chennai.

IISF 2015 was held from 4 to 8 December 2015 at Indian Institute of Technology, New Delhi. MoST, MoES and VIBHA collectively organized it with Department of Science and Technology as the nodal organisers and TIFAC as the coordinating department.



The second edition of the festival, IISF 2016 was organized at CSIR-NPL, New Delhi from 7-11 December 2016. MoST, MoES and VIBHA jointly organized the event along with CSIR as the nodal organisations and National Physical Laboratory (NPL) acted as coordinating department for the edition



The third edition of IISF 2017 was held between 13-16 October 2017 at Indian Institute of Technology, Chennai and Anna University, Chennai, Tamil Nadu. The event was a collective effort of MoST, MoES and VIBHA.





INDIA
INTERNATIONAL
SCIENCE
FESTIVAL
2018



STEERING COMMITTEE



Chief Patron
Dr. Harsh Vardhan
Hon'ble Union Minister for Science & Technology and Earth Sciences & Union Minister for Environment, Forest and Climate Change



Chair
Dr. Renu Swarup
Secretary, DBT

MEMBERS



Prof. Ashutosh Sharma
Secretary, DST



Dr. M. Rajeevan
Secretary, MoES



Dr. Girish Sahni
DG, CSIR & Secretary, DSIR



Dr. K. Sivan
Chairman, ISRO & Secretary, DOS



Dr. Sekhar Basu
Chairman, AEC & Secretary, DAE



Dr. S. Christopher
Chairman, DRDO



Shri Anand Kumar, IAS
Secretary, MNRE



Dr. Trilochan Mohapatra
DG, ICAR & Secretary, Department of Agricultural Research and Education



Shri C.K. Mishra
Secretary, MoEF & CC



Prof. Balram Bhargava
DG, ICMR & Secretary DHR



Shri Dinesh Singh
Secretary (Land Resources) Ministry of Rural Development



Dr. Vijay P. Bhatkar
President, Vijnana Bharati



Shri A. Jayakumar
Vijnana Bharati



Shri. Chandra Prakash Goyal
Joint Secretary, DBT



Dr. Amulya K. Panda
Director, NII

CHIEF COORDINATORS



Dr. Garima Gupta
Scientist-E, DBT



Shri Praveen Ramdas
Secretary, Vijnana Bharati

IISF 2018 : PROGRAMME AT A GLANCE



Foreign S & T Minister's Conclave:

The challenges faced by the people and society are global in nature and is not limited by geopolitical boundaries. Some of these common challenges can be met collectively through the application of science and technology. In our efforts to serve the society by leveraging collaborations with our key partner countries a Science & Technology Minister's Conclave is planned to be organized in the IISF-2018 with the theme "International Collaboration for People Centric Science". This Conclave will provide us an opportunity to exchange the scientific and technological priorities and challenges and provide new dimensions to our cooperation agenda with partner countries specially for addressing unmet societal needs through application of Science, Technology and Innovation.

Coordinating Agencies: DST, DBT & VIBHA

COORDINATORS

Dr. Arbinda Mitra, DST
Ph. No. 011-26961912

Dr. Amit Parikh, DBT
Ph. No. 011-24363725

Dr. Rupesh Chaturvedi, JNU
Ph. No. 99710 18697

Email: foreign@scienceindiafest.org



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

The eminent group of Indian Scientists & Technocrats' Diaspora would be invited and have brainstorming sessions for the development of India during IISF 2018. As India making rapid economic progress, the way for inclusive development covering the larger fraction of our weaker population is the prime objective of this event.

Coordinating Agencies: DST, DBT & VIBHA

COORDINATORS

Ms Anju Bhalla, DST
Ph. No. 011-26516077

Dr. Shailja V Gupta, DBT
Ph. No. 011-24363748

Prof. Y K. Gupta, AIIMS
Ph. No. 98688 68457

Email: gist@scienceindiafest.org



Science and Technology Mission: A key Stakeholders and Partners Summit

The summit will provide the opportunity to S&T Ministers of all States & Union Territories to interact with other stakeholders and discuss the possible interventions of Science & Technology in achieving the objectives of various national missions.

Coordinating Agencies: DST, DBT & VIBHA

COORDINATORS

Dr. Neeraj Sharma, DST
Ph. No. 9810753972

Dr. Manoj K Modi, DBT
Ph. No. 011-24369383

Prof. Pramod Verma, Vikram University
Ph. No. 9826013067

Email: iisf@scienceindiafest.org



North-East Students' Conclave

A special exposure will be given to selected students of India's North East Region where they will also get the opportunity to interact with Eminent Scientists of the Country. It will boost their scientific temperament and help them to become not only the future scientific leaders of India but also motivate scientific disposition among local students.

Coordinating Agencies: DBT & VIBHA

COORDINATORS

Dr. Mohd Aslam, DBT
Ph. No. 011-24363057

Dr. Krishna Kumar, NECTAR
Ph. No. 98991 92757

Email: nesc@scienceindiafest.org



Young Scientists' Conference (YSC)

This meet is primarily meant for the scientists/researchers/faculties/science innovators/professional students below the age of 40 years. Delegates will be nominated by their respective Universities, Institutes, Departments and R & D Labs. It is an effort to share with the youth about Government's policies and success stories related to national flagship programs like Swachh Bharat, Make in India, Digital India, Climate Change and Swasth Bharat etc. YSC is an opportunity for young scientists, scholars and faculties from all over the country to showcase their innovations and scientific contributions for the benefit of masses.

Coordinating Agencies: NIPGR, DBT & VIBHA

COORDINATORS

Dr. Debasis Chattopadhyay, NIPGR
Ph. No. 9868240645

Dr. Meenakshi Munshi, DBT
Ph. No. 011-24361035

Dr. Jajati Nayak, VECC
Ph. No. 9038864186

Email: ysc@scienceindiafest.org



Green Good Deeds

To sensitise people and students, in particular about climate change and global warming. The need for 'Green Sainiks' on the lines of 'Polio Sainiks' to broaden the 'Green Good Deeds' campaign and take it to the grassroots level.

Coordinating Agencies: MoEF & CC, DBT & VIBHA

COORDINATORS

Sh. Ravi Shankar Prasad, MoEFCC
Ph. No. 8130676464

Dr. Onkar Tiwari, DBT
Ph. No. 011-24361290

Dr. Ranjana Arya, JNU
Ph. No. 9811325080

Email: green@scienceindiafest.org



Clean Air Campaign

The campaign seeks to sensitise ground-level functionaries and general public to enforce the habit of environmental protection.

Coordinating Agencies: MoEF & CC, DBT & VIBHA

COORDINATORS

Sh. Ravi Shankar Prasad, MoEFCC
Ph. No. 8130676464

Dr. Sanjay Kalia, DBT
Ph. No. 011-24362338
Dr. Rajneesh K Gaur, DBT

Dr. Sumit Mishra, NPL
Ph. No. 9911920419

Email: camp@scienceindiafest.org



Agriculture Conclave

To fulfill the dream of our Honorable PM of "doubling farmers' income" by the year 2022, a committee was constituted by the Ministry of Agriculture & Farmers Welfare. The committee suggested three important variables, namely, productivity gains, reduction in the cost of cultivation and remunerative price. Consequently, the strategy platform is built by the following concerns-sustainability of production, monetization of farmers' produce, re-strengthening of extension services, recognizing agriculture as an enterprise and enabling it to operate as such, 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. Topics related to residue burning, organic farming and soil & water management shall be addressed.

Coordinating Agencies: ICAR, DBT & VIBHA

COORDINATORS

Dr. S.K. Singh, ICAR
Ph. No. 011-25842787

Dr Mohd Aslam, DBT
Ph. No. 01124363057

Prof. Randhir Singh, IARI
Ph. No. 7015672158

Email: agriculture@scienceindiafest.org



Health Conclave

Health care has emerged as one of the most challenging sectors as well as one of the largest service sector industries in India. The aim of this conclave is to spread the awareness about health, various diseases and address the issues concerning disease burden in our nation

Coordinating Agencies: ICR, DBT & VIBHA

COORDINATORS

Dr. Neeraj Tandon, ICMR
Ph. No. 011-26589599
Ph. No.9847416321

Dr. Alka Sharma, DBT
Ph No: 011-24363699

Dr. Asha Latha, SCTIMST,
Thiruvananthapuram
Ph. No.9847416321

Email: health@scienceindiafest.org



Industry-Academia Meet

The interaction meet aims at Industry-Academia institutional tie-ups in R&D and achieving improved efficiency in production processes & allied areas. The interaction will bring out a brief proceeding on the recent paradigm changes in various sectors of industry. Representatives from industry and academia will also have an excellent opportunity to discuss the changing trends in management principles, scientific advancement and technological assimilation in industry and economy.

Coordinating Agencies: BIRAC, DBT & VIBHA

COORDINATORS

Dr. Manish Diwan, BIRAC
Ph. No. 9871290710

Dr. Sangita M Kasture, DBT
Ph. No. 011-24365438

Dr. Hemant Ritturaj Kushwaha,
JNU
Ph. No. 8076369267
Dr. Prakash Itankar,
Nagpur University
Ph. No. 9766191818

Email: iai@scienceindiafest.org



Women Scientists' and Entrepreneur Conclave

To promote and encourage science education and entrepreneurship among the women. The programme aims to develop entrepreneurship and explore new vistas of opportunities in the field of science and technology among the women.

Coordinating Agencies: NII, DBT & VIBHA

COORDINATORS

Dr. Chandrima Saha, NII
Ph. No. 995842001

Dr. Suraksha S Diwan, DBT
Ph. No. 011-24363760

Dr. Shiny Suresh, VIBHA
Ph. No. 9654256770
Dr. Kinkini Dasgupta Misra,
Vigyan Prasar
Ph. No. 9810941887

Email: scientists@scienceindiafest.org



National Social Organisations & Institutions Meet (NSOIM)

In order to engage the science oriented organisations & institutions in nation building through the intervention of science and technology, the three-day summit would be conducted. The programme aims to deliberate on technologies, innovation methodologies and products developed by R&D institutions for the masses and also to promote the flagship program of the government to the beneficiary. Six zonal and other state-level capacity building workshops would be conducted to sensitise the organisations towards this objective. Potential and aspiring organisations & institutions would be invited to participate in the meet at IISF 2018.

Coordinating Agencies: DST, DBT & VIBHA

COORDINATORS

Ms Anju Bhalla, DST
Ph. No. 011-26516077

Dr. S. U. Ahmad, DBT
Ph. No. 011-24364065

Shri. N. P. Rajiv, VIBHA
Ph. No. 9020336500

Email: soim@scienceindiafest.org



National Science Teachers' Congress

National Science Teachers' Congress will bring hundreds of innovative, dedicated and passionate teachers from all walk of life, on a single platform to share their experiences and put forth the future roadmap for the country. Participating teachers will showcase the innovative methods of science teaching based on the subject themes and ideas. The congress will include panel discussions on various aspects of teaching, learning practices as well as the effective tools for comprehensive and continuous learning in science. It will also discuss the science, technology, engineering and mathematics inter-linkage and required policies to make education and effective tool for nation building. The congress will bring out the report based on the dissertations and deliberations conducted a special session will be organised for the visually impaired school teachers. The span of the teachers will be from KG to PG focusing on the contemporary issues of teaching and learning.

Coordinating Agencies: CDRI, CSIR, VIGYAN PRASAR, DBT & VIBHA

COORDINATORS

Dr. Arvind Ranade, VIGYAN PRASAR
Ph. No. 9871439594

Dr. Garima Gupta, DBT
Ph. No. 011-24369385
Ph. No.9450917522

Dr. Sudeep Kumar, CSIR
Dr. W. Haq, CSIR-CDRI

Email: workshops@scienceindiafest.org



Science and Technology for Harnessing Innovations (SATHI)

The meet aims to provide a common platform for various stakeholders—from innovators, students, and researchers to policymakers. About 100 innovative technologies from all states of the country will be showcased at the exhibition. The special focus will be given to those which could be diffused socially and generate employment. 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/roundtable on innovations, incubation and entrepreneurship during the summit to educate and encourage the young aspirants to take innovations for start-ups.

Coordinating Agencies: NIF, BIRAC, DBT & VIBHA

COORDINATORS

Dr. Vipin Kumar, NIF
Ph. No. 9825316994

Dr. Nitin K Jain, DBT
Ph. No. 011-24365972
Dr. Chhaya Chauhan, BIRAC
Ph. No. 8588869455

Dr. Anil Kothari, RGPV
Ph. No. 9425148662

Email: saathi@scienceindiafest.org



Students Science Village: Reaching the Unreached

Hon'ble Members of Parliament will nominate students and teachers from their respective adopted villages under Pradhan Mantri Sansad Adarsh Gram Yojana for the Science Village programme. This program shall make attempts to reach out and propagate science to the greater extent of seeking innovative and scientific solutions to the diverse challenges facing our society, particularly rural India. It will also be a lifetime opportunity for the participating students and teachers. Student delegates will undergo unique science activities that shall cultivate scientific temper and encourage interest towards science. Activities include scientist-student interaction, poster presentations, hands-on scientific experiments, visit to science and technology expo, laboratory visits, popular talks, night sky watching, cultural programs etc.

Coordinating Agencies: NBRI, DBT & VIBHA

COORDINATORS

Dr. S.K. Tewari, NBRI
Ph. No. 9918733338

Dr. Manoj Singh Rohilla, DBT
Ph. No. 011-24363726

Dr. R.P. Pant, NPL
Ph. No. 9811718404

Email: student@scienceindiafest.org



Face to Face with Frontiers in Science

A very vibrant and live interactive session, face to face with new frontiers in Science for the benefit of thousands of local students and student delegates will be a major programme of IISF 2018.

Coordinating Agencies: DBT & VIBHA

COORDINATORS

Dr. B. D. Singh, BSIP
Ph. No. 0522-2742938

Shri A.K Duggal, DBT
Ph. No. 011-24360984

Dr. Chandra Mohan Nautiyal, Ex-BSIP
Ph. No. 9415107078

Email: frontiers@scienceindiafest.org



Guinness World records

World record attempts have been a key part of IISF since 2015, thus encouraging science popularisation through public participation. In IISF 2015, students took a successful shot at the Guinness world record for the “World’s Largest Science Lesson” at IIT Delhi. In IISF 2016, at NPL, Pusa, a group of 550 students attempted the world record for “Largest Gathering of People Dressed” as Nobel Prize-winning scientist Albert Einstein. In IISF 2017, a World Record attempt was made for the “Largest Biology Lesson”. 1049 students from classes 9 & 10 gathered at the venue in Chennai for this attempt. The biology lesson was delivered by the instructor followed by a demonstration and made it the new Guinness record.

Entries in the Guinness World Record serve as a motivational platform and an excellent opportunity for the young students to be part of the mega event.

Coordinating Agencies: BIOTECH PARK, DBT & VIBHA,

COORDINATORS

Prof. Rishi Shanker, Biotech Park
Ph. No. 9839184190

Dr. Onkar Tiwari, DBT
Ph. No. 011-24361290

Dr. Vaisakh, VIBHA
Ph. No. 9717096659
Prof. Girish Kumar, CUSAT
Ph. No. 9847363660



Students Engineering Models Competition

Engineering and Professional Students will present their innovative and creative projects, and the awards will be presented. Mega Organisations like ISRO, DRDO, BARC etc. will visit this Expo and the best projects would be adopted for their Organisations.

Coordinating Agencies: AICTE, DBT & VIBHA

COORDINATORS

Prof. Alok Prakash Mittal, AICTE
Ph. No. 011-26131497

Dr. Vamsi Krishna, DBT
Ph. No. 011-24363725

Dr. Meghendra Sharma,
SSG COLLEGE
Ph. No. 9829021975

Email: semc@scienceindiafest.org



Nav-Bharat Nirman

Few major challenges faced by the society across the country will be posted to the public for getting the solutions. The challenges will be highlighted through write-ups, photos and videos. The solutions can be submitted in the form of essays or power-point presentations with supporting videos and photographs to the IISF secretariat. The best and practical solutions will be awarded with prizes.

Coordinating Agencies: MoES, DBT & VIBHA

COORDINATORS

Dr. Gopal Iyenger, MoES

Dr. Alka Sharma, DBT
Ph. No. 011-24363699

Dr. Sheetal Shinkhede,
MSU, Baroda
Ph. No. 9099063783

Email: competitions@scienceindiafest.org



Mega Science, Technology & Industry Expo

A Mega Science and Industry Expo will showcase the outstanding contributions of India in the field of Science, Technology and Industry. Demos and models on Indian Space, Defence, Atomic, Agricultural, Medical achievements and the programmes by several Ministries, Departments and Industries will be on display for four days, where students and public in lakhs will witness these. Special focus will be on GOI Missions like Swachh Bharath, Digital India, Make in India, etc. during IISF 2018 Expo.

Coordinating Agencies: VIBHA

COORDINATORS

Dr. S R Rao, DBT
Ph. No. 011-24360295

Ch. Narendra Sharma, VIBHA
Ph. No. 9958188770

Email: expo.iisf2018@gmail.com



Outreach Programme

Hon'ble Prime Minister Shri Narendra Modi ji emphasized need of "increase in attraction towards science among young generation" in Man Ki Baat (26th Feb 2017). To realize this dream and to take science to the masses, IISF has one prominent activity named as "Outreach Programme". The institutes under DST, DBT, CSIR, MoES, ICAR, DRDO, ISRO, MHRD, UGC, AICTE, etc. will showcase their scientific achievements and research facilities to students, general public and local media. The institutions will open their labs to the common public for one day and organise competitions, exhibitions, scientist-student-public interactions, popular lectures etc.

Coordinating Agencies: DBT & VIBHA

COORDINATORS

Dr. D K Tiwari, DBT
Ph. No. 011-24369611

Dr. Sachin Mandavgane, VNIT Nagpur
Ph. No. 9823246329

Email: outreach@scienceindiafest.org



International Science Literature & Film Festival

Science and Technology have grown immensely around the world to make a better life and overcome a variety of problems faced by mankind ranging from healthcare, food security, environment, transport, energy, etc. It has necessitated the public and policymakers' understanding the concept of science, technology and innovation. Science literature, for instance has preceded the science films, to educate not only the commons but also the experts. As evident from a plethora of science publications in the form of science fiction, science poetry, popular science books, monographs, encyclopaedia besides different literary genre, a variety of science films have been able to trigger a lot of interest amongst the masses in general and youngsters in particular.

International Science Literature & Film Festival aims at showcasing India's efforts in science promotion and deliberates 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 major attractions of this festival.

The science book fair on the occasion is an effort towards bridging the science–society gap, as well as attracting writers, journalists, communicators and filmmakers towards science communication, besides offering a platform for networking and exchange of ideas for future advancement. It will also provide an excellent opportunity for filmmakers and authors to exhibit their work.

Coordinating Agencies: CSIR-NISCAIR, DBT, VIBHA & VIGYAN PRASAR

COORDINATORS

Dr. Manoj Patariya, NISCAIR Ph. No. 011-25846045	•	Dr. Jyoti M Logani, DBT Ph. No. 011-24362329	•	Mr. Nimish Kapoor, VIGYAN PRASAR Ph. No. 0120-2402009	•	Shri G Sreedathan, VIBHA Ph. No. 9891412119
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Email: litfest@scienceindiafest.org



Crafts and Artisans Demo

A national level Handicrafts Expo and Handlooms Demos will be a special attraction at IISF 2018.

Coordinating Agencies: DBT & VIBHA

COORDINATORS

Dr. Niloo Srivastava, DBT Ph. No. 011-49166740	•	Dr. Rajeev Singh, ARSD (DU) Ph. No. 9311225501
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Cultural Events

India is a land of diverse cultures and practices 'Unity in Diversity'. The evenings of Science Festival will offer cultural engagement to the participants of the India International Science Festival.

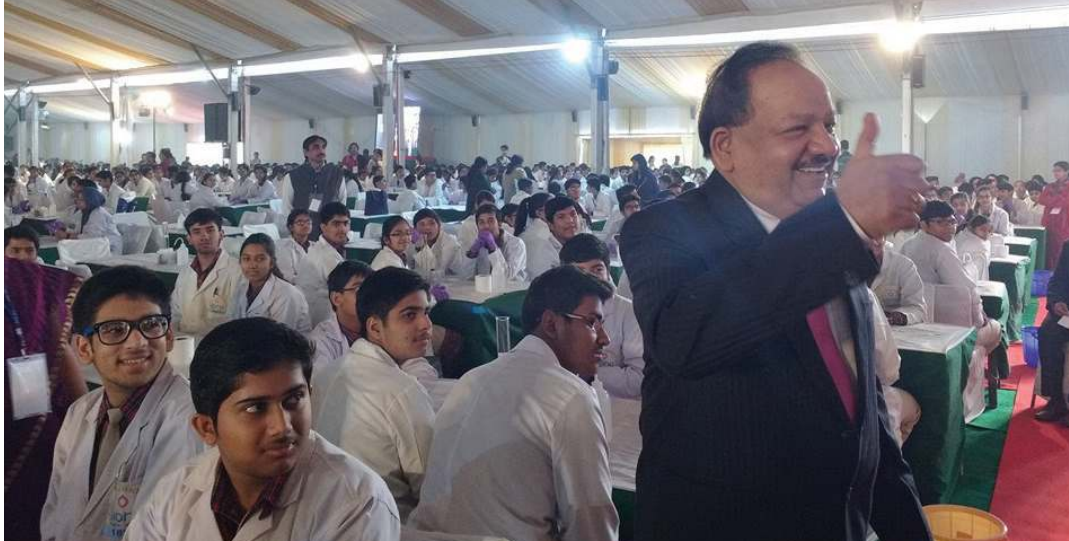
Coordinating Agencies: NBRI, DBT & VIBHA

COORDINATORS

Dr. S.K Tewari, NBRI Ph. No. 9918733338	•	Dr. Suchita Ninawe, DBT Ph. No. 011-24363501	•	Dr. Shivani Pandey, KGMU Ph. No. 9415015122
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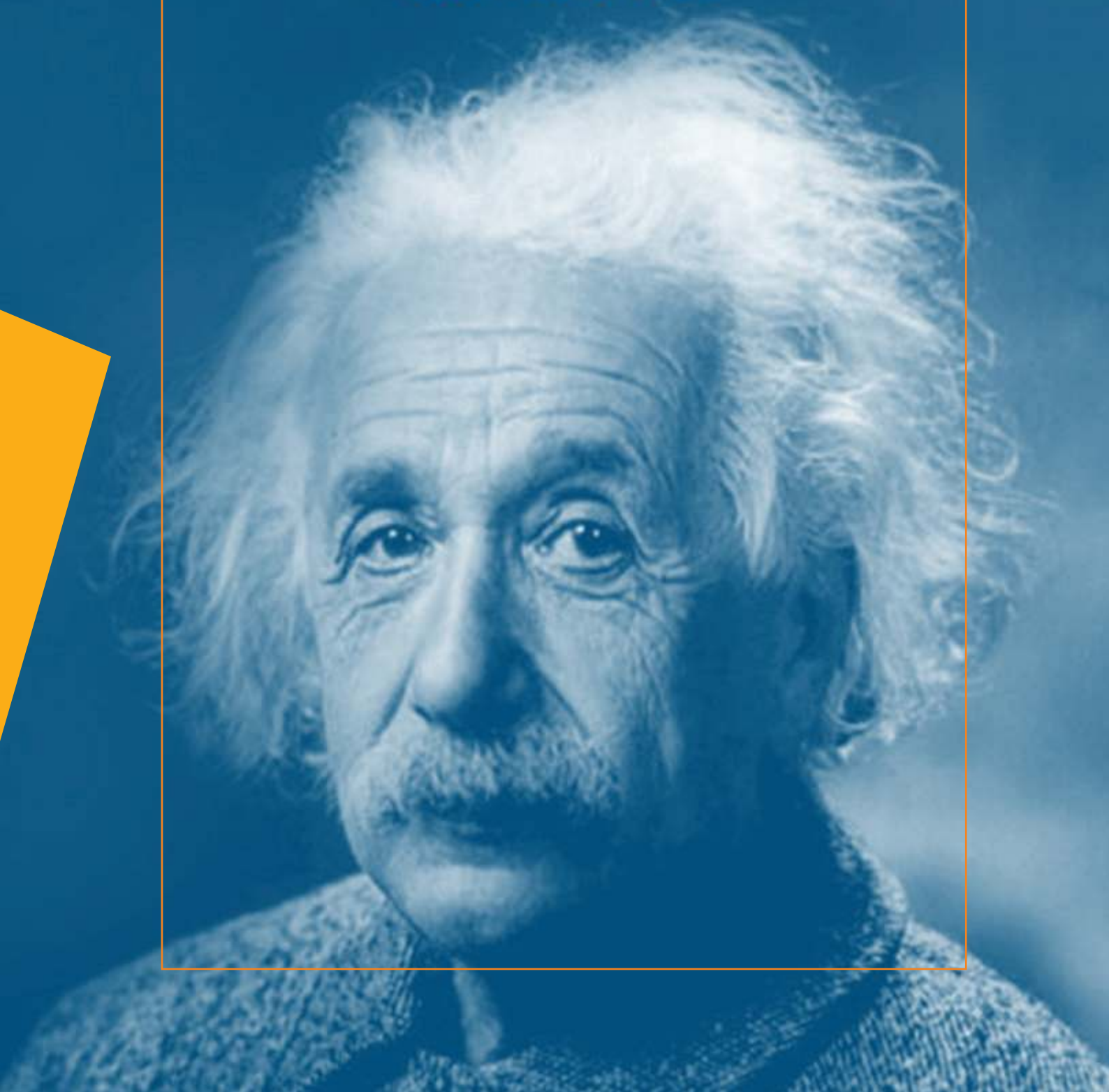
GLIMPSES FROM IISF 2015,16 & 17







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सत्यमेव जयते
PRESS INTERNATIONAL BUREAU, INDIA

Address for communication

IISF-2018 Secretariat, Room No-10, Ministry of Earth Sciences
PrithviBhavan, Lodhi Road, New Delhi-110 003
www.scienceindiafest.org
Email: info@scienceindiafest.org
Ph: 011-24669649, 011-24669647