

08 - 11 May 2020 CSIR - Indian Institute of Chemical Technology, Hyderabad

Organizer

Vijnana Bharati

Vijnana Bharati is a nationalistic, patriotic, and humanistic science moverment where science involving both engineering and technology is aimed at societal development, social harmony, ecological balance, and environmental sanctity. Vijnana Bharati is the largest people's science movement in India. From its ideological seeds as Swadeshi Science Movement of Bharat, where Swadeshi connotes the Bharatiya world view on Science in which a single framework lead to the development of all three knowledge systems, such as natural sciences, social sciences and spiritual sciences in a holistic, integral and all inclusive manner.

Vijnana Bharati was launched in 1991 and as of the day the network is spread in 30 prant units in India and has its presence in 7 countries abroad.

It has nine initiatives and seven entities. More information on Vijanana Bharati is available on

www.vibhaindia.org

Host Institute

CSIR - IICT

Indian Institute of Chemical Technology (IICT),
Hyderabad, established in 1944, is a
constituent laboratory of Council of Scientific
and Industrial Research (CSIR), New Delhi.
With its expertise in chemistry and chemical
technology, it provides solutions to challenges
faced by Industry, Government Departments
and Entrepreneurs through basic and applied
research, and process development. It is
internationally recognized for its contributions
to chemistry research and is an ideal place for
taking ideas to commercialization through
state of the art research and development.

Vision: To Serve society by creating an outstanding knowledge base in chemistry and chemical technology.

Mission: CSIR-IICT will strive towards knowledge intensive translational research in chemistry to meet the country's expectations with novel technologies.

www.iictindia.org

Fusion of Traditional and Modern Science for Sustainable Development



Statue of Sushruta at the Royal Australasian College of Surgeons, Melbourne, Australia



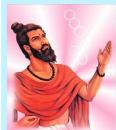
Organizer

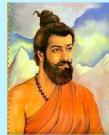




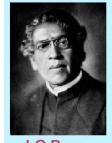
भुवनत्रयम्

अन्नपूर्णा स्तोत्रम् (शङ्कराचायी)





Kapil Muni



J C Bose



C V Raman

तर्भवात्त्वस्थातेयस्यातेयस्य । अञ्चाववात्रिनस्य केन्**त्रमाद्ययनतःश्री**वनास्य याच्यासारम्बाह्यस्य विकासिक्षियस्य स्थानस्य । स्थानस्य स्थानस्य । विवित्राक्ष्यायनार्धमग्राम् तिक्राब्द्रवानियान्यसम्। त्याळक्रविनासस्यामान्यसम्बन्धः स्थापनायम्भागान्यसम्बन्धः स्थापनायसम्बन्धः स्थापनायसम्बन्धः स्थापनायसम्बन्धः स् श्रीतायात्रवः स्थाप्येयवासुत्रासीतः स्मापनायसम्बन्धः स्थापनायसम्बन्धः स्थापनायसम्बन्धः स्थापनायसम्बन्धः स्थापन सम्बन्धाः स्थापनायसम्बन्धाः स्थापनायसम्बन्धाः स्थापनायसम्बन्धाः स्थापनायसम्बन्धाः स्थापनायसम्बन्धाः स्थापनायसम

Jalandhar (2012), Panji (2015), and Pune (2017).

May 2020.

Objectives

farmers, fishermen etc.

contemporary issues.

Sustainable Development.

Important Dates

BVS Conference

Abstract Acceptance

Submission of Paper

Abstract Submission deadline

1. BVS Expo

Focal Theme

science.

haratiya Vigyan Sammelan (BVS) is a flagship program of Vijnana Bharati initiated as a vehicle to reach the masses in the pursuit of populatizing science and

technology and to facilitate interactions within common people and scientific fraternity.

BVS is a conglomeration of scientists, artisans, technocrats, traditional innovators,

students and common people planned once in two years. It has become an excellent

platform to bring together whoever contributes to science and has become a definition and identity in the field of scientific seminars and symposiums. To date, five Bharatiya Vigyan Sammelans have taken place starting from Bhopal (2007), Indore (2009),

The 6th Bharatiya Vigyan Sammelan and Expo is being jointly organized by Vijnana

Bharati and CSIR - Indian Institute of Chemical Technology, Hyderabad from 8th - 11th

1. Explore avenues for deeper scientific interaction between traditional practices/

2. Showcase contemporary Indian scientific contributions to the society.

3. Promote development and communication of science through regional

5. Explore feasibility of using traditional science and technology to resolve

4. Showcase grass-root innovations made by artisans from different domains,

The focal theme of the sammelan is "Fusion of Traditional and Modern Science for

Sustainable Development" with an intention to provide an excellent integrating

opportunity to showcase people's science in our Indian traditions, grass root

innovations as well as the contributions made by researchers and scientists in modern

BVS aims to provide a channel of communication between traditional and modern

sciences with the prospects of communicating in any regional language and not

In spite of stupendous accomplishments in Science and Technology today, humanity

is facing severe challenges such as climate change, depletion of natual resources,

over-population, pollution, hunger, human health, etc. which have posed an existential threat to very life on mother Earth. The only way out of this crisis is a path to

Bharatiya traditional scientific knowledge, practices and techniques have eternally

evolved to emphasize the human connection with nature, which is a core idea to achieve Sustainable Development. Naturally, interlinking of both - traditional and

8th May to 11th May 2020

9th May to 11th May 2020

15th March 2020

31st March 2020

15th April 2020

restricting to only English as the preferred language for scientific expression.

modern science - will certainly bring out solutions to the current crisis.

techniques and modern sciences to improve the understanding and effectiveness.





चित्रवाया विद्याना वातिया नमञ्ज्ञाया विद्याना वातिया

विद्वः।विग्वित्यस्य अगुस्केता ज्ञाताना क्षेत्रः।विद्वाराष्ट्रिय स्वतस्य विद्वारा

Chief Mentor

Dr. Harsh Vardhan, Honorable Union Minister, Ministry of Health and Family Welfare, Ministry of Science & Technology, and Ministry of Earth Sciences, Govt. of India.

Shri. Ramesh Pokhriyal, Honorable Union Minister, Minister of Human Resource Development, Govt. of India

Mentors

Dr. V K Saraswat, Member, Niti Aayog

Dr. Vijay P Bhatkar, President, Vijnana Bharati

Dr. Anil Kakodkar, Former Chairman, Atomic Energy Commission

Dr. R A Mashelkar, Former Director General, CSIR and Secretary, DSIR

Dr. G Madhavan Nair, Former Chairman, Indian Space Research Organisation

Advisors

Dr. K VijayRaghavan, Principal Scientific Advisor, Govt. of India

Dr. Shekhar C Mande, Director General, CSIR and Secretary, DSIR

Prof. Ashutosh Sharma, Secretary, Department of Science and Technology

Dr. Renu Swarup, Secretary, Department of Biotechnology

Dr. G Satheesh Reddy, Chairman, Defence Research and Development Organisation

Dr. Balram Bhargava, Director General, Indian Council of Medical Research

Dr. Trilochan Mohapatra, Director General, Indian Council of Agricultural Research

Organizing Committee

Dr. S Chandrasekhar, Director, CSIR - IICT, Hyderabad

Prof. Appa Rao Podile, Vice-Chancellor, University of Hyderabad, Hyderabad

Dr. V M Tiwari, Director, CSIR - NGRI, Hyderabad

Dr. Debashis Mitra, Director, CDFD, Hyderabad

Dr. Rakesh Mishra, Director, CSIR - CCMB, Hyderabad

Dr. R Hemalatha, Director, NIN, Hyderabad

Shri. BHVS Narayana Murthy, Director, RCI, Hyderabad

Dr. Anil Kumar Singh, Director, DLRL, Hyderabad

Academic Committee

Chairperson: Dr. Satheesh C Shenoi, Director, INCOIS, Hyderabad Co-chairperson: Dr. Subeer S Majumdar, Director, NIAB, Hyderabad

Convenor: Dr. G Bhanuprakash Reddy, NIN, Hyderabad

Member: Prof. Amba Kulkarni, University of Hyderabad, Hyderabad

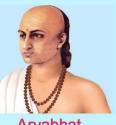
Prof. Sharmistha Banerjee, University of Hyderabad, Hyderabad Prof. Jayant Kulkarni, Vignana Bharathi Inst. of Tech., Hyderabad

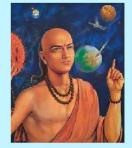
Prof. P Laxminarayana, Osmania University, Hyderabad Prof. Ch Venkata Ramana Reddy, JNTU, Hyderabad Dr. Prathama S Mainkar, CSIR - IICT, Hyderabad

Convenors

Dr. Sanjay Tiwari, Pandit Ravishankar Shukla University, Raipur

Dr. Ramanuj Narayan, CSIR - IICT, Hyderabad





Bhaskaracharya





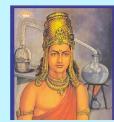


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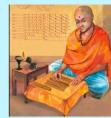


माता भूमि: पुत्रोऽहं पृथिव्या:

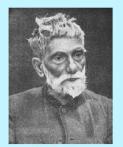
अथवविद १२.१.१२



Nagarjuna



Brahmagupta



P C Ray



S Chandrasekhar

Save Mother Earth त्रावस्थाविक्षविक्षविक्षविक्षविक्षविक्षयात्रे । प्रभाववाविक्षये ने त्रमेष्ठये ने तर्गिविक्षये स्वार्थिति । प्रभाववाविक्षये स्वार्थिति । प्रभाववाविक्षये स्वार्थिति । प्रभाववाविक्षये स्वार्थिति । प्रभाववाविक्षये । प्रभावविक्षये । प्रभावविक्यये । प्रभावविक्षये । प्रभावविक्षये





विश्व क्रिमक्रमण्ड्यायस्यायस्य प्रयम्बद्धार्यस्य विद्यम्यायः चित्रपाण्यायायः स्वामात्रात्यः नमत्रसञ्ज्यायायः स्वामात्रायः ताञ्चायं स्वामायायः स्वामायायः स्वामायायः स्वामायायः स्वामायायः स्वामायायः स्वामायायः स्वामायायः स्वामायायः स्

यागुद्धतियितस्य वित्यवालाश्री प्रयाताल्य कर्माव्य ग्रिका विवय वित्य वित

Theme Subjects of BVS 2020

The organizers of BVS 2020 seek presentations and brain stroming discussions on the following topics of relevance and their role in making sustainable scientific approach through the fusion of tranditional and modern science.

- 1. <u>Health</u>: Primary concerns in today's health sector, strenthening of existing knowledge base in the field, and how to promote access to the state-of-the-art health care to common man, Traditional practices, Ayurveda.
- 2. <u>Food and life-style disorders</u>: Traditionally evolved food habits in various parts of India, gradual loss of local produce, altered food habits and life-style disorders.
- 3. <u>Metallurgy/Dyes/Natural pigments</u>: The ancient knowledge base of chemistry in India,understanding of dyes and natural pigments and stratergies to reinstate nature-friendly dyes and pigements.
- 4. <u>Building</u>, <u>Materials and Architecture</u>: Can we evolve strategies to have environmental friendly buildings and revival of ancient Indian architectural skills?
- 5. <u>Animal Husbandary</u>: Today's problems associated with animal husbandary sectors, solutions to farmers and cattle breeders, biotechnology breakthroughs.
- 6. <u>Defense and Space</u>: The success of research in defense and space sector in independent India is breath taking. To further enhance technological niche and to be the world leaders in these sectors.
- 7. <u>Grass root innovation</u>: To provide platform for the creativity of an individual who is not professionally trained but is an ardent observer. Provide platform and support a creative mind at the grass root level.
- 8. <u>Bhasha Vijnana</u>: The evolution of languages is a very complex process and has been a subject of active of research. A platform will be provided to present development and challenges in this subject.

Scope of the Sammelan and Call for Abstract

We invite scientists, researchers, academicians, technocrats, grass root innovators, farmers, artisans, post-doctoral scholars, and students who wish to publicly share their scientific innovations which have potential to provide sustainable solutions for our country's problems.

BVS 2020 invites abstracts for presentation on the following broad areas and subthemes:

- 1. <u>Life Sciences</u>: Forestry, Enviornment, Biodiversity, Conservation Biology, Traditional Medicine, Health, Agriculture, Plant and Animal Science.
- 2. <u>Earth Sciences</u>: Water, Atmospheric Science, Geology, Geophysics, Marine chemistry and biology, and Oceanography.
- 3. <u>Astronomy</u>: Modern Astronomy and Astrophysics, Ancient Astronomy.
- 4. Archaeology: Ancient technologies, Languages.

- 5. <u>Technology</u>: Grass root, Traditional, Applications, Defense, Architecture and Civil Engineering, All branches of Engineering.
- 6. <u>Physics</u>: Ancient knowledge of Indian societies in physics, Marine physics, Time Keeping, Algorithms, Metrology, Modern Physics.
- 7. <u>Chemistry</u>: Modern Chemistry, Ancient findings in Chemistry, Natural dyes, Pigments and Ancient knowledge of metallurgy.
- 8. <u>Mathematics</u>: Indian knowledge base in Mathematics, Ancient discoveries of trignometry, Calculus, Number Theories, Binary Numbers, Series, Fractions and Vedic Mathematics, Modern Mathematics.
- 9. Performing Arts: Traditional knowledge and science behind all forms of art.

BVS Expo

BVS Expo will be held during 8th - 11th May 2020 at CSIR - Indian Institute of Chemical Technology, Hyderabad.

The BVS expo is planned to be a unique exhibition which will be a major attraction of the proposed Bharatiya Vigyan Sammelan. This exhibition intends to showcase the innovations and achievements of India in the area of science and technology, traditional arts, crafts, practices and contemporary grass root innovations from different parts of India.

Organisations expected to participate in the mega expo are:

- Department of Atomic Energy (DAE),
- Department of Science and Technology (DST),
- Department of Biotechnology (DBT),
- Council of Scientific and Industrial Research (CSIR),
- Defence Research and Development Organisation (DRDO),
- Indian Council of Agricultural Research (ICAR),
- Indian Council of Medical Research (ICMR),
- Ministry of New and Renewable Energy (MNRE),
- Ministry of Earth Sciences (MoES),
- Indian Space Research Organization (ISRO).
- Universities, IITs, NITs, IISERs etc.
- A large number of industries and innovators.

Awards

Suitable awards will be considered in deserving cases for :

- 1. Best rural / indigenous technological development
- 2. Best scientific innovation making impact on societal issues
- 3. Best oral presentation
- 4. Best poster presentation
- Best exhibit





Varāhamihira



Madhava





S N Bose



Homi Bhabha



यावन्तः पुरुषे तावन्तः लोके।

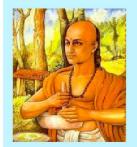
चरक संहिता

2020.

Format:

Name(s) of the author(s):

Title of the abstract:





Jeevaka



Har Gobind Khorana



G N Ramachandran

ायात्वस्यायेक्वास्त्रवातितःस्त्रग्वासामान्यः स्यमेष्ठाः स्वयं विक्रास्त्रक्रेत्राः स्वयं विक्रास्त्रक्रेत्राः त्रिकात्रात्रात्रात्रात्रात्रात्रात्रात्रम् स्वयं स्वयं

Name of the Presenting and corresponding Author:

Abstract: (Maximum 500 words, without any images)

Language Specifications:

Poster Presentations:

Vigyan Sammelan and Expo (BVS 2020).

concerned author by 1st April 2020.

preference.

Poster.

requested to send the .pdf version due to compatibility issues.

Abstracts in compliance to these themes are requested for oral or poster

presentation during the conference. Abstracts should be written in clear and concise

format, so that reviewers can focus solely on the scientific merits of the submission.

Each abstract may only be submitted once and under one theme and topic. Failure

to answer questions on the submission form or the submission of the same abstract

under multiple themes could result in the abstract being declined. The abstracts

should preferably uploaded on the website of BVS 2020 on or before 15th March,

Presenter submitting the abstracts in any other language other than English are

The presentations can be in any regional language / National language or in English.

We encourage non-English-speaking authors to have their abstracts checked for

grammar and spelling prior to the submission. The presenter who will be submitting

the abstract in any regional language will have to provide the same abstract either in

Hindi or English for non-biased evaluation. If the presenter has any problem in

The objective of poster presentation is to showcase innovations, success stories,

problems needing scientific and technical solutions etc. to leading scientists, NGOs, innovators, research institutes, funding agencies and many more on one to one basis during the conference. Such interaction is expected to provide better opportunity of personal discussion. Topics should be related to the sub themes specified for the nine broad areas selected for deliberations during the 6th Bharatiya

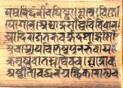
Posters with a predominant Research and Innovation component will be given

 Academic committee will evaluate the posters and advise the organizers about their acceptance/improvement/ rejection. Organizers will convey the results to the

Name, designation and contact details of the authors shall be written on the

translating the abstract, then he/she can take help of our Regional coordinators.

Submission of Abstract:





Registration

Interested participants may choose on the three categories for registration

1. Individial registration - Rs. 2000 2. Student registation - Rs. 500 3. Vijnana Bharati members - Rs. 1000

Participants are encouraged to register through the web portal located at: http://www.bvs2020.in

Accomodation

A limited number of dormitory type accommodation can be offered to the out-station participants and delegates from 1800 hrs of 8th May till 0800 hrs of 12th May 2020 on payment of additional Rs. 1500 per delegate. Accommodation request along with the payment must be done during the registration process on the online portal.

Account Details for Bank Transfer

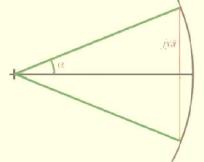
Name of the Bank: Indian Bank

Account Name: **BVS**

Bank A/c No: 6853721869

Bank Branch: Defence Colony, New Delhi

IFSC Code: IDIB000D008 MICR Code: 110019003



Contact

Organizers,

Kerala:

6th Bharatiya Vigyan Sammelan,

CSIR - Indian Institute of Chemical Technology. Tarnaka, Hyderabad - 500007, Telangana, India

Phone: +91-40-2716 0512 Email: bvs2020@gmail.com Web: http://www.bvs2020.in

मिख भिख फिख धिख णिख अखि ङिख हस्झ स्किक किण श्विक किघ्व। घ्लकि किंग्र हक्य धकि किच

स्मा एझ ड्व क्ल प्त फ छ कलार्धज्याः॥

Regional coordinators of Vijnana Bharati

Dr. ARS Menon

O)		
Andhra Pradesh:	Dr. Satyakamal	Madhya Pradesh:	Dr. Anil Kothari
Bihar:	Dr. Ramkumar	Maharashtra:	Dr. Manasi Malgaonkar
Chandigarh:	Shri. Arvind Garg	North-Eastern	
Chhattisgarh:	Dr. Santosh Dubey	States:	Shri. Rajeeb Sarma
Delhi:	Dr. Krishnakumar	Orissa:	Dr. Bikash Jena
Goa:	Shri. Manohar	Punjab:	Dr. Sanjeev Chauhan
	Pednekar	Rajasthan:	Dr. Umesh Gupta
Gujarat:	Shri. Vidyadhar		& Shri. Vishnu Prakash
	Vaidya		Sharma
Haryana:	Dr. H D Kaushik	Tamilnadu:	Shri. Sabanayaham
Himachal Pradesh	: Dr. Vikram Singh	Telangana:	Shri. G L N Murthy
Jammu - Kashmir		Uttar Pradesh:	Dr. Aniruddha
& Ladhakh:	Dr. Pawanesh Abrol		& Dr. Rajesh Kumar
Jharkhand:	Dr. J K Pandey	Uttarakhand:	Dr. Hemwatinandan
Karnataka:	Shri. Chandrasekhar	West Bengal:	Shri. Arthatran Patra

(Contact details of the regional coordinators are available on the BVS2020 website)





Maharshi Bharadwaj



Parashar Muni







Janaki Ammal