



INDIA  
INTERNATIONAL  
SCIENCE  
FESTIVAL  
2019 Kolkata



05-08 NOVEMBER 2019

# NATIONAL SCIENCE TEACHERS' CONGRESS (NSTC)

SCIENCE EDUCATION IS A  
MAJOR TOOL FOR OVERALL  
DEVELOPMENT OF SOCIETY

07-08 NOVEMBER 2019

VENUE:  
BISWA BANGLA CONVENTION CENTRE  
HALL NUMBER 6



MINISTRY OF SCIENCE AND TECHNOLOGY  
MINISTRY OF EARTH SCIENCES  
MINISTRY OF HEALTH & FAMILY WELFARE  
GOVERNMENT OF INDIA



VIGYAN  
PRASAR

# Introduction

Teachers' who inculcate the moral values and discipline leading young generation on the path of wisdom plays a vital role in nation building. A teacher serves as the facilitator and helps in guiding the future generations. Teachers are widely loved and respected for their selfless service, idealism & patience. They not only share knowledge but also guide the students to use the knowledge and wisdom ethically for the betterment of society.

National Science Teachers' Congress (NSTC) aims to bring together hundreds of innovative, dedicated and passionate science teachers from all corners of India on a single platform. The participants will share their experiences related to teaching methodologies and innovations in activity-based teaching and learning. The NSTC will also include the 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 focus on 'Science, Technology, Engineering and Mathematics' (STEM), inter-linkage and policies to make education an effective tool for nation building. It will also bring out the report based on the dissertations and deliberations conducted. The participating delegates will range from primary school teachers to university and engineering colleges.



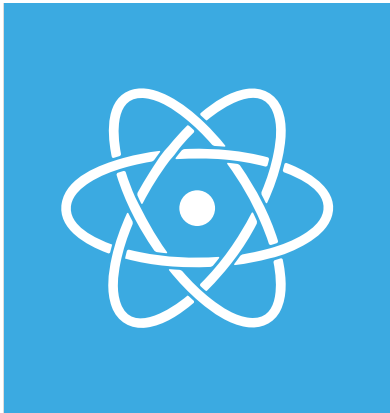
# OBJECTIVES

- ✓ To provide the platform to discuss various issues on “Science Education in India”
- ✓ Plenary talks by eminent and award-winning teachers
- ✓ Discussion on the pedagogy of science teaching and learning
- ✓ Discussion on the importance of teachers’ training and capacity building programme
- ✓ To showcase novel and innovative practices in science teaching
- ✓ Special session on “New Education Policy and Science Education”
- ✓ Special lectures on “Indian Contributions to Science”
- ✓ Discussion on the opportunities and challenges in science teaching and learning
- ✓ Role of teachers in developing scientific temper





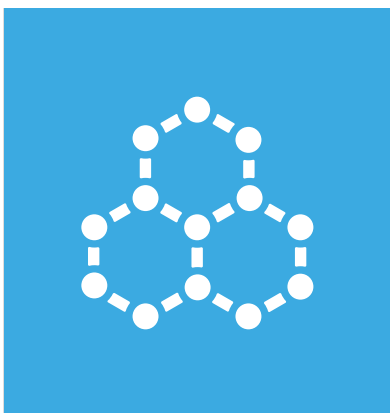
# SALIENT FEATURES



- > **Participating teachers will be from primary, secondary and higher secondary schools as well as from universities and affiliated science and engineering colleges.**
- > **Panel discussions for various categories of teachers.**



- > **Demonstrations of activity-based science teaching.**
- > **Plenary lectures by eminent speakers from reputed Education Institutions.**



- > **Comprehensive report on the outcome of NSTC.**
- > **Recommendations to the Science Policy Makers.**

# WHO CAN PARTICIPATE?

## HOW WILL WE SELECT THEM?



50 teachers from primary schools. These teachers' will be from government established schools. Vijnana Bharati/VIPNET Science Clubs identify by Vigyan Prasar. (ONLY BY NOMINATION)



200 teachers' from secondary and higher secondary schools. These teachers will be by nomination by Vijnana Bharati state units/Vigyan Prasar's VIPNET Science Clubs/schools nominated by CBSE/NCERT.



150 teachers' from engineering colleges or universities nominated by Vijnana Bharati state units ORO AICTE. (ONLY BY NOMINATION)

## DELIBERATIONS IN THE NSTC

- > Plenary talk on "Current Challenges in Education Sector in India: The Continuing Relevance of Swami Vivekananda and Sarvepalli Radhakrishnan".
- > Plenary talk on "Indian Contributions to Chemistry"
- > Panel Discussion on the "National Education Policy".
- > Demonstrations on "Science Teaching and Learning"

# EXPECTED OUTCOME

- > **Participants will be trained to think with scientifically, derive conclusions logically from the observations and plan experiments to build their innovative ideas.**
- > **The exposure to the hands-on presentation/demonstration to enlighten on new teaching methodology/Pedagogy for 21 century generation.**
- > **Educators and scientists to ensure that every teacher is provided with unforgettable learning experience.**
- > **National Science Teachers' Congress is aimed to bring the best universal change in the minds of our next generation**



# NSTC Programme Schedule

*Day one (07 November 2019)*



07:30 am to 8:30 am	Breakfast at site
8:30 am to 9:00 am	Travel to venue
09:00 AM to 10:00 AM	Registration
10:00 AM to 11:00 AM	Inauguration: Chief Guest: <b>Dr. Shekhar C Mande</b> , Secretary, DSIR and Director General, Council of Scientific & Industrial Research
11:00 AM to 11:15 AM	Tea Break
11:15 AM to 11:45 noon	Ice Breaking - Introduction by <b>Dr. Arvind Ranade</b> , Vigyan Prasar
11:45 noon to 12:45 PM	Chaired by <b>Prof. JN Moorthy</b> (Director, IISER Tvm) Plenary Talk-I : by <b>Prof. Gautam R Desiraju</b> , SSCU, IISc Bangalore Title: Current challenges in the education sector in India: The continuing relevance of Swami Vivekananda and Sarvepalli Radhakrishnan
12:45 PM to 02:00 PM	Lunch
02:00 PM to 02:30 PM	Chaired by <b>Dr. Swadhin K Mandal</b> , Professor, IISER, Kolkata Keynote Speaker: <b>Sh. Unnat Pandit</b> , Niti Ayog, New Delhi Title: Experimental Learning at various level of Education System
2:30 PM to 04:00 PM	Chaired by <b>TBA</b> Panel Discussion: The National Education Policy - 2019 Panel Members: 1. <b>Prof. Dinesh Kumar</b> , Head, DESM, NCERT 2.. <b>Dr. Biswajit Saha</b> , Director (Skill Education & Training), CBSE 3. <b>TBA</b>
04:00 PM to 04:15 PM	Tea break
04:15 PM to 05:45 PM	Chaired by <b>Shri. Manoj Sawaikar</b> Science Demonstrations: 1. <b>Miss Shivani Pethe</b> , IUCAA Pune---Title: Wonderlab 2. <b>Shri. Shashikant Naik</b> , HM Goa & Title: Matlab 3. <b>Shri. Ashok Kumar Roy</b> , Teacher Title : Eco-conservation
05:45 PM	Departure to hotels

*Day Two (08 November 2019)*



07:30 am to 8:30 am	Breakfast at site
8:30 am to 9:00 am	Travel to venue
9:00 am to 9:30 am	Open Discussion & Interaction moderated by <b>Dr. Prosenjit Sen</b> (IACS, Kolkata) and <b>Sh. RP Singh</b> (CBSE, New Delhi)
9:30 am to 10:00 am	Chaired by: <b>Dr. Prosenjit Sen</b> , IACS, Kolkata Invited Talk: by <b>Prof. Sangeeta Gadhok Magan</b> , NDIM, New Delhi Title: Enhancing the Teaching Learning Process
10:00 AM to 11:00 AM	Chaired by <b>Dr. Prof. Arindam Banerjee</b> , IACS Kolkata Plenary Talk-2: by <b>Prof B N Jagatap</b> , Professor, Department of Physics, IIT Mumbai Title: Indian Contributions to Chemical Sciences
11:00 AM to 11:15AM	Tea Break
11:15 AM to 11:45 AM	Chaired by, <b>Dr. C Malla Reddy</b> , Professor, IISER Kolkata Keynote Talk by <b>Sh. Jayant Sahasrabuddhe</b> , National Organizing Secretary, Vijnana Bharati Title: Indian contributions to science
11:45 AM to 12:15 PM	Chaired by, <b>Dr. C Malla Reddy</b> , Professor, IISER Kolkata Invited Talk by <b>Dr. Arvind C Ranade</b> , Vigyan Prasar, DST Title: Introduction to Vigyan Prasar
12:15 AM to 1:00 PM	Open Discussion-Feedback: Moderated by all Co-ordinators of NSTC
1:00 PM to 2:00 PM	Lunch
2:00 PM	Closing Ceremony of IISF





## COORDINATED BY



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