



# Navi Mumbai Science Foundation

[Regn. No.: Maha /2592 / 10 / (Thane) and Bombay Public Trust Regn. No. F/24093/Thane]  
B-51, Gitanjali, Plot No. 52, Sector – 17, Vashi, Navi Mumbai – 400703.

Website: <http://www.navimumbaisciencefoundation.org>

18-Apr-2019

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NMSF/ Sc Ut 2021

Date: 26 /11 / 2020.

## Science Utsav Teachers' Conference- 2021

(An online event)

### Developing Online Interactive Environment for Science Teaching and Learning

**Chairperson:** Prof. Sugra Chunawala, Dean, Homi Bhabha Centre for Science Education (TIFR)

**Convener:** Dr. D A R Babu, Secretary, Navi Mumbai Science Foundation

**Co convener:** Dr. G.P. Kothiyal , Vice-President, National Centre for Science Communicators

Dear Madam / Sir,

### Online Teachers' conference (TC-21)

Navi Mumbai Science Foundation (NMSF) holds its 2 day Science Utsav every year in the month of January. Due to corona pandemic this event "Science Utsav Teachers' Conference" will be held **online** on 6<sup>th</sup>, February 2021.

NMSF had the benefit of interaction with your school in the past and therefore, we are delighted to extend this invitation to you and your school for the event and look forward to enthusiastic participation from teachers.

**A note on the main theme " *Developing an online interactive environment for science teaching and learning*" and its sub-themes is attached for reference.** It is requested that teachers from your school submit some papers/essays on any sub-themes, individually or jointly. Teachers will have an opportunity to present the paper(s) during the **online** conference which will also be published in the soft proceedings and also on NMSF website.

Last date for receipt of papers (**for teachers**) is **January 10, 2021**. For further details please visit our website or contact

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Dr. D A R Babu <[babudar13@rediffmail.com](mailto:babudar13@rediffmail.com)> (Mobile: 97699 69694).

**Registration fee for participation in Teachers' Conference is Rs. 200/- per participant.**

A detailed conference information and registration forms are attached.

**We look forward to active participation from your school.**

With Best Regards

Yours' Sincerely,

Secretary, NMSF.



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## “Online Teachers’ Conference-2021”

(Saturday, 6<sup>th</sup> February 2021)

### Concept Note for participating teachers

#### **Developing Online Interactive Environment for Science Teaching and Learning**

The Covid-19 pandemic has brought before us unprecedented challenges. Education is especially disrupted due to the various lockdown and distancing measures in place. Many teachers and students across the country are struggling to cope with the challenges while keeping teaching and learning alive. The challenges are great in science teaching as it involves working with materials and experimentation and observation. At the same time, the problems in making use of technology not only to attend school but to share their work/ ideas has not been easy for students.

A conference aiming to voice the challenges, efforts, and innovations that teachers have been undertaking to achieve successful science teaching is a need of the hour. Therefore, we announce a conference that engages with teachers, principals, and parents on “*Developing an online interactive environment for science teaching and learning*”. This theme will help collate various ideas and resources that have emerged in this pandemic to cope with online teaching-learning, as well as provide a platform for our science educators to present their topic-specific challenges.

Teaching remotely is conducted in two ways – in the synchronous mode where teachers and students interact in real-time through conferencing tools or asynchronously, where learners are given access to resources and recorded lessons. While these modes create huge opportunities for learning they also require educators to reflect on more interactive pedagogy, which can support learners in creative and imaginative ways.

#### **Sub-themes**

**1. Tools for Interaction in the Online Mode:** In teaching remotely in the synchronous mode, where teachers and students interact in real-time through conferencing tools, various new resources have been used by teachers. The choice and appropriate use of tools significantly impact the teaching-learning process. Share your experiences, therefore, about the tools that helped in making the online classes more interactive, meaningful, and ensured greater student participation. Also, describe the use of specific features of the technological tools that played a key role in leading active interactions in the online mode (e.g., screen sharing, a common blackboard, and other blending features).

**2. Planning and Designing for Online Science Teaching:** Whether it is teaching online or recording your videos of teaching, a description of the planning and designing measures in specific contexts would be helpful. You can bring in examples from your planning in the context of varied science topics to make these descriptions meaningful and have impact.

**3. Scientific Temper in the Online Class:** One of the aims of science teaching is to help develop critical thinking and scientific temper among students. How this aim is focused on in online classes can be the subject of discussion with examples.

**4. Challenges in Teaching Science in the Online Mode:** In the traditional teaching, prior to pandemic, the use of digital technology has been largely lacking, and if used, perhaps did not actively engage the student. Since the onset of the pandemic, schools have been forced to explore remote teaching and teachers have had to conduct their lessons through conferencing platforms. The specific challenges you and the students faced while transitioning to the online mode are of significance in understanding various ways in which teacher and learner support can be shaped. Are there specific concerns that are still not addressed? A description of your efforts in changing attitudes and dispositions towards online teaching will help teacher educators to develop better support for the future teachers. Similarly, if specific considerations for interpersonal skill development and equitable participation are made in the online mode, it will be useful knowledge to share within the teacher community.



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**5. Science Experiments and Online Teaching:** Experiments are synonymous with learning in science. Lack of infrastructure and appropriate devices for making science accessible to students has always been a major challenge. How did teachers make this possible in the online mode? Describe your successful and not-so-successful attempts on this specific aspect of science teaching and the experiences thereby that will be useful for other educators. Also, share how these online environments enabled students to explore scientific phenomena consistent with scientific practices.

**Participants are welcome to send papers/essays related to the major theme, even if these do not directly correspond to one of the sub-themes.**

**Process of conference:** The one-day online conference consists of invited talks by experts on this subject, and mainly, oral and poster presentations of “contributions by participating teachers”. A detailed program and details of the online mode will be announced in due course.

**Submission of contributions:** *Essays/Papers* relevant to the topic and not exceeding 1000 words are invited. These can be in English / Hindi / Marathi. The paper should have a clear title, list of authors, affiliation, abstract, body of the text and references (if any). These will be reviewed by experts and peers. Acceptances and feedback will be communicated to the authors. The accepted contributions that are presented by the authors in the conference will be brought out as conference proceedings and will be posted on NMSF website for international access. *Poster presentation* could be submitted as a single self explanatory power point slide or a .pdf thereof. These posters will be put up in the website for access to conference members.

**The paper/essay/posters are to be submitted only via email (please see below)**

**Registration:** Kindly fill in the registration form (it is fillable .pdf form). Attach it to the email along with your paper (if you have) and send it to

**[nmsfscienceutsav@gmail.com](mailto:nmsfscienceutsav@gmail.com)**

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