

**Homi Bhabha Centre for Science Education**  
Tata Institute of Fundamental Research, Mumbai

**ANNUAL REPORT OF COMMEMORATIVE EVENTS AND  
CELEBRATIONS**

**August 2017 to July 2018**

**Infosys Award Function, 2017**



The Infosys Award Function for science and mathematics Olympiad medallists of 2017, held on December 22, 2017, was attended by Olympiad medallists, team leaders and observers and parents. Videos of the lectures are available on HBCSE's Youtube Channel.



The awards, made possible from the generous grant received from the Infosys Foundation, were distributed by the Chief Guest, Arvind Kumar, Former Centre Director of HBCSE.



The award function was preceded by 2 scientific lectures delivered by Rupamanjari Ghosh (Vice-Chancellor, Shiv Nadar University, UP) on “Manipulating atoms by light” [YouTube Link: [https://www.youtube.com/watch?v=K3rzYBGcx\\_4](https://www.youtube.com/watch?v=K3rzYBGcx_4)], and by Jaikumar Radhakrishnan (TIFR) on “It is Entropy that counts” [YouTube Link: <https://www.youtube.com/watch?v=pLy7wkW1gpk>].

## National Science Day 2018

**tifr** Homi Bhabha Centre for Science Education  
Tata Institute of Fundamental Research

**National Science Day - 2018**  
**Open House - Date: 28th February**

- ★ Exciting demonstrations in 'Science and Technology'
- ★ Exhibitions on 'History of Science, Gender and Science'
- ★ Hands-on-minds-on-'Mathematics Laboratory'
- ★ Freedom software: Demo in the 'Gnowledge Laboratory'
- ★ Physics, Chemistry, Biology 'Olympiad Experiments'
- ★ Glass Blowing Techniques
- ★ Liquid Nitrogen Experiments
- ★ Book Exhibition and Sale
- ★ Scientific Toys
- ★ Video shows and more

Homi Bhabha Centre for Science Education, (HBCSE)  
TIFR, V.N. Purav Road, Mankhurd, Mumbai-400 088  
Tel: 022-25072100, 2101, 2102  
HBCSE is Located near Anushakti Nagar Bus Depot



As in every year, the National Science Day (NSD) was celebrated at the Centre by having an Open House on February 28, 2018. NSD witnessed over 1700 visitors which included students, teachers, teacher educators, and parents.

### **Science Popularisation at TIFR Colaba Campus**





HBCSE took active part in the TIFR Founder's Day program held at its main campus in Navy Nagar, Colaba, on October 27, 2017. HBCSE had put up some interesting hands-on experiments and demonstrations on working of gadgets. Hundreds of students, teachers, and parents from Mumbai region visited the stall.

### Hindi Divas Programme

Rajbhasha Committee of HBCSE organized competitions for its staff members on the occasion of Hindi Divas. Essay Writing and Hindi Gyan competitions were conducted. The winners were given cash prizes on the Hindi Divas function at HBCSE, September 14, 2017. Rajbhasha Committee also invited Prof. Ramji Tiwari, an eminent scholar, and former Head, Department of Hindi, University of Mumbai, for a talk.

### Essay Writing and Hindi Gyan competitions organized by the Rajbhasha Committee of HBCSE

HBCSE, September 7 to 8, 2017

### Hindi Divas Function

HBCSE, September 14, 2017

**होमी भाषा विज्ञान शिक्षा केन्द्र**  
टाटा मूलभूत अनुसंधान संस्थान  
(Tata Institute of Fundamental Research)  
पता: एन. एच. रोड, मालापुरा, मुंबई-४०० ०८८  
फोन: ९१-२२-२५०७२२१०  
फैक्स: ९१-२२-२५६६८०३  
वेबसाइट: www.hbcse.tifr.res.in  
ई-मेल: hbcse@hbcse.tifr.res.in

दिनांक- २९ अगस्त २०१७

**हिन्दी दिवस -२०१७**

**-: सूचना :-**

होमी भाषा विज्ञान शिक्षा केन्द्र, (टी.आई.एफ.आर.) द्वारा आगामी १४ सितम्बर २०१७ को 'हिन्दी दिवस' मनाया जाएगा। राजभाषा समिति ने इस अवसर पर 'निबन्ध-लेखन' तथा 'सामान्य हिन्दी-ज्ञान' प्रतियोगिताओं का आयोजन करने का निर्णय किया है। ये प्रतियोगिताएं क्रमशः ७ सितम्बर तथा ८ सितम्बर २०१७ को आयोजित की जाएंगी।

प्रतियोगिताओं के विजेता प्रतिभागियों को हिन्दी दिवस समारोह में १४ सितम्बर २०१७ को पदक पुरस्कार तथा प्रमाण-पत्र प्रदान कर सम्मानित किया जाएगा।

होमी भाषा केन्द्र के समस्त कर्मचारीगत (प्रिजिन्ट, अडिस्ट्रैट, या सॉफ्टवेयर कार्गिलर) इनमें हिस्सा ले सकते हैं। इच्छुक प्रतिभागी कृपया श्री नरेश भास्कर, हिन्दी सचिव अतिरिक्त, (रजिस्ट्रार) के पास अपना नाम भेज देंगे कि वह करें।

आज्ञा है, होमी भाषा केन्द्र के कर्मचारीगत हिन्दी दिवस समारोह तथा उसके उपलक्ष्य में आयोजित इन प्रतियोगिताओं में तुझे उत्साह से भाग लेने।

(डॉ. कृष्ण कुमार मिश्र)  
अध्यक्ष  
राजभाषा समिति

**हिन्दी दिवस-२०१७**

**प्रतियोगिता-विषयव**  
इस प्रतियोगिता में पुरस्कारों की दो श्रेणियां हैं: **१) हिन्दी वर्ण**, इसमें के प्रतिभागी होने किन्हीं मातृभाषा हिन्दी हैं तथा **२) हिन्दीतंत्र वर्ण**, इसमें वे प्रतिभागी होने किन्हीं मातृभाषा हिन्दी से हटा कोई अन्य मातृभाषा भाषा है।

**१. निबन्ध लेखन प्रतियोगिता**

श्रेणी	राशि	पुरस्कारों की संख्या
प्रथम पुरस्कार	३००० रु.	१
द्वितीय पुरस्कार	२५०० रु.	१
तृतीय पुरस्कार	२००० रु.	१
श्रेष्ठतम पुरस्कार	१५०० रु.	१

→ सामान्य हिन्दी ज्ञान प्रतियोगिता

श्रेणी	राशि	पुरस्कारों की संख्या
प्रथम पुरस्कार	३००० रु.	१
द्वितीय पुरस्कार	२५०० रु.	१
तृतीय पुरस्कार	२००० रु.	१
श्रेष्ठतम पुरस्कार	१५०० रु.	१


**हिन्दी दिवस २०१७**

**निबंध के विषय** (प्रतिभागी अपनी सविधि एवं पसंद का कोई एक विषय चुन सकते हैं।)

१. भारत में स्तुती शिक्षा - दशा और विंशति
२. सिन्दूरिकल (मोटवर्नी) के नवोन्मुखन
३. भारतीय समाज में विज्ञान साक्षरता की जरूरत
४. पर्यावरण के प्रति हमारा दायित्व

→ सामान्य हिन्दी ज्ञान के परने में दिए गए प्रश्नों/प्रश्नों का शीघ्र तथा भावपूर्ण, सही के पर्याप्ततः तथा विचारपूर्वक, पुरस्कार के अर्थ तथा चयन-प्रयोग, एवं बर्दाश्तकीन भावों में इस्तेमाल होने वाले हिन्दी सही के संज्ञा शब्दी शब्द, तथा शब्दी शब्दों के संज्ञा शब्दी शब्द, जैसे प्रश्न चुनें जायेंगे।


## Sixteenth V. G. Kulkarni Memorial Lecture HBCSE, September 21, 2017



**THE SIXTEENTH  
V. G. Kulkarni Memorial Lecture**

The sixteenth V. G. Kulkarni Memorial Lecture will be delivered by eminent physicist Prof. Rohini Godbole. She did her B.Sc. from Pune University (1972), M.Sc. from Indian Institute of Technology Bombay (1974) and Ph.D. from State Univ. of New York at Stony Brook, USA (1979). She has worked extensively on different aspects of particle physics phenomenology over the past three decades, authoring more than 280 research publications in refereed journals & arXived e-prints. She serves as a member on various National & International Committees, and is an elected fellow of all the three science academies of India (INSA, IASc and NASI). Additionally, she has worked towards pioneering a variety of programmes at numerous fora to raise awareness on the subject of Women in Science.

Homi Bhabha Centre for Science Education  
Tata Institute of Fundamental Research  
*cordially invites you to the*  
Sixteenth V. G. Kulkarni Memorial Lecture by  
**Prof. Rohini Godbole**  
Professor, Centre for High Energy Physics,  
Indian Institute of Science, Bangalore

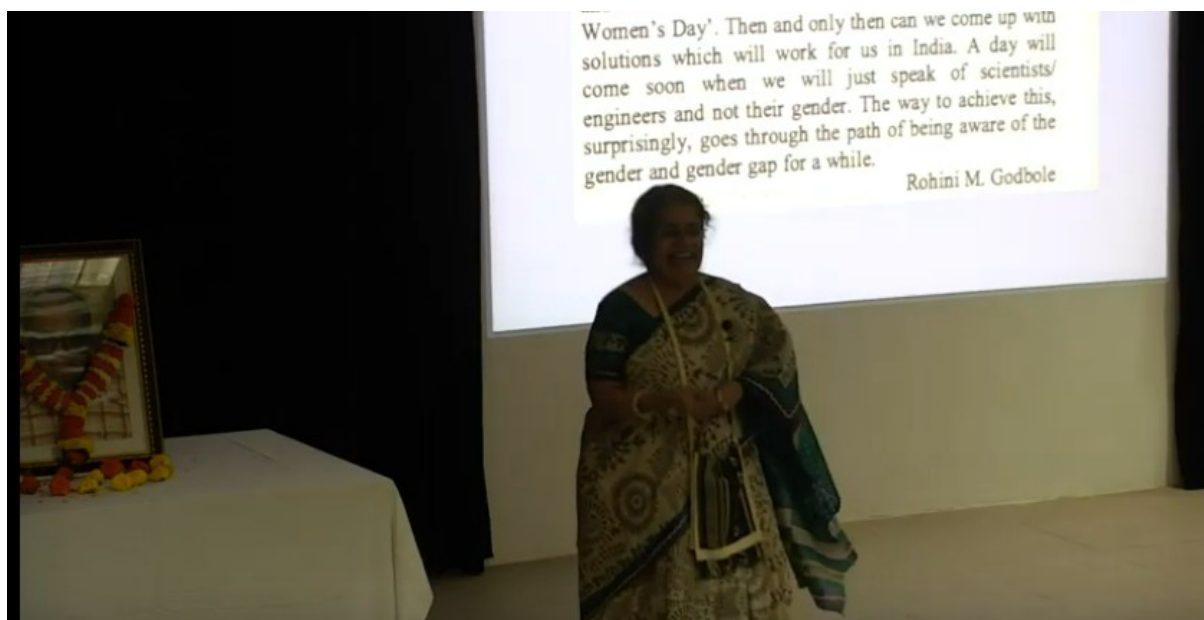



**Women in Physics & Mathematics**

The lecture will celebrate stories of some of the outstanding women in physics and mathematics and try to abstract the issues that these women in science handled. An attempt will be made to juxtapose this with the story of women in science in India today. Lastly, efforts that are being taken/needed to change the situation will be discussed in brief.

Day and Date: Thursday, September 21, 2017  
Time: 4:00 pm to 5:30 pm

Venue: V. G. Kulkarni Auditorium,  
Homi Bhabha Centre for Science Education  
V. N. Purav Marg, Near Anushaktinagar Bus Depot,  
Mankhurd, Mumbai - 400 088  
Phone: (022)-25580036  
Website: www.hbcse.tifr.res.in



Rohini Godbole (Professor, Centre for High Energy Physics, Indian Institute of Science, Bangalore), Women in Physics and Mathematics, Sixteenth V. G. Kulkarni Memorial Lecture, HBCSE, September 21, 2017. YouTube Link: <https://www.youtube.com/watch?v=N1o6eOTjT0E>

**International Women's Day Celebration: Screening of the movie "Un-limited Girls"  
HBCSE, March 12-13, 2018**

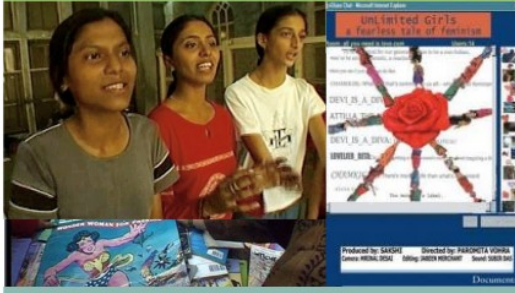
Please join us for the screening of movie  
**Un-limited Girls**  
Directed by **Paromita Vohra**




**About the Movie**  
'Unlimited Girls' is an exploration of engagements with feminism in contemporary urban India. A narrator called Fearless who starts accidentally in a chatroom and embarks on a journey where she encounters diverse characters - feminists who remember the songs and actions of the Indian women's movement, yuppies who discuss their modern marriage, a policeman writing films for 'women's upliftment', women shopping at a bra sale, college kids practicing a dance, teachers who feel girls must not take injustice ' or break a home; in a feminist chatroom ' all talking of their engagements with feminism and its place in their lives today.

**When:** 4 pm on 12 March 2018  
**Where:** G1 Main Building, Homi Bhabha Centre for Science Education, Mankhurd - Mumbai, 400088.

**Unlimited Girl — Talking Feminism and Film with Paromita Vohra**



**13th March 2018, 3:30 pm**

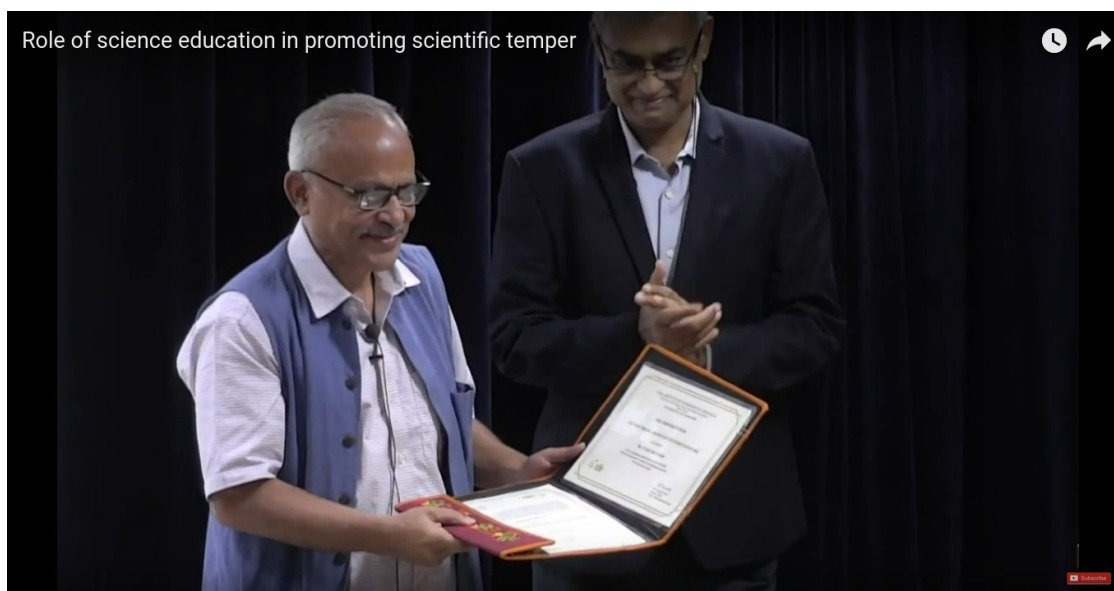


**Paromita Vohra** is a filmmaker, writer and curator whose work focuses on urban life, gender, politics and art. Her films have been widely screened in festivals, galleries and popular screening spaces, besides being included in university syllabi.

**V. G. Kulkarni Memorial Auditorium**  
Homi Bhabha Centre for Science Education  
Tata Institute of Fundamental Research  
V. N. Purav Marg, Mankhurd, Mumbai 400088

**Homi Bhabha Award in Science Education - 2016**  
HBCSE, November 3, 2017

The Homi Bhabha Award in Science Education- 2016 was presented to Vivek Monteiro by Sandip Trivedi, Director, TIFR on Friday, November 3, 2017 at HBCSE. YouTube Link: [https://www.youtube.com/watch?v=mL\\_oTxQR8sM](https://www.youtube.com/watch?v=mL_oTxQR8sM)



**Madhava Mathematical Competition Award Function**  
HBCSE, March 20, 2018



**Mathematics Teachers' Association Founding Meeting**  
HBCSE, March 20, 2018

## International Conference epiSTEME-7

HBCSE, January 5-8, 2018

The seventh in a series of biennial conferences initiated by HBCSE, epiSTEME-7 (<https://episteme7.hbcse.tifr.res.in/>) was hosted successfully at the centre from January 5-8, 2018.



The epiSTEME conferences bring together researchers and educationists in science, technology and mathematics education in an interdisciplinary exchange. The proceedings of the conference were brought out in print and an electronic version and is available at: <https://episteme7.hbcse.tifr.res.in/proceedings/>. The videos for five review talks (out of eight) are also uploaded on the conference website and on HBCSE's YouTube Channel.

- Review Talk by Prof. Tina Overton, Monash University, Australia [YouTube Link: <https://www.youtube.com/watch?v=614CPII-HO8>]
- Review Talk by Prof. David R. Sokoloff, University of Oregon, USA [YouTube Link: <https://www.youtube.com/watch?v=tKuJ3xhWc0c>]
- Review Talk by Prof. Larry Bencze, Ontario Institute for Studies in Education (OISE), University of Toronto, Canada [YouTube Link: <https://www.youtube.com/watch?v=5hYv1sPY06Y>]
- Review Talk by Prof. Deborah Loewenberg Ball, University of Michigan, USA [YouTube Link: <https://www.youtube.com/watch?v=EwezLcZJpJw>]
- Review Talk by Prof. Susan Singer, Rollins College, Florida, USA [YouTube Link: <https://www.youtube.com/watch?v=4wES9nM7Y4>]