

**9th Annual Research Meet, 2019**  
**Homi Bhabha Centre for Science Education**

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**Day 1 | March 13 (Wednesday)**

**9:30-09:45AM**

Inaugural address by the Dean, HBCSE

**9:45-10:45AM**

*Presentation 1:* Evaluation of Yusuf Hamied Teacher Development Programme in India (Hanza George, Rasika Bhujbalrao, Savita Ladage, Sugra Chunawala, Vijay Lale) // 45m

*Presentation 2:* Analysis of Education for Sustainable Development in Selected Schools of Raigad District, Maharashtra (Shraddha Kulkarni) // 15m

**10:45-11:15AM**

Tea

**11:15AM-1:00PM**

*Presentation 1:* Exploring cultures of empathy and cooperation in Mathematics learning (Rossi DSouza, Jeenath Rahaman) // 25m

*Presentation 2:* Mathematical Explorations (Jayasree S) // 25m

*Presentation 3:* How's How: Cartoon Ramblings on the Philosophy and the Politics of Science (Charudatta Navare) // 45m

**1:00-2:00PM**

Lunch

**2:00-3:30PM**

*Presentation 1:* From embodiment to grounded disembodiment: An explanatory account for syntactical symbolic activity (Megha Sanyal, Durgaprasad Karnam, Gaurang Yadav) // 45m

*Presentation 2:* Activity-based learning & Experiences with students in a primary school (Sonawane Vinodkumar) // 45m

**3:30-4:00PM**

Tea & Snacks

**4:00-4:30PM**

*Talk:* Measuring the Wall Street with a Tape: A case for 'Taking Back' the 'Weapon' (Tathagata Sengupta) // 30m

**Day 2 | March 14 (Thursday)**

**9:30-10:45AM**

*Presentation 1:* Understanding Scaffolding Strategies To Mediate A Problem-Based Learning Environment: Indigo dyeing wastewater treatment (Sujatha Varadarajan) // 45m

*Presentation 2:* Intricacies in Identification of Biological Misconceptions (Rajendra Chavan) // 25m

**10:45-11:00AM** Tea

**11:00AM-1:00PM**

*Symposium:* Research methods in Education research: Experiences, Challenges, Ideas (Meena Kharatmal, Scientific Officer, HBCSE; Shirish Pathare, Scientific Officer, HBCSE; Aisha Kawalkar, Research Scholar, HBCSE; Shikha Takker, Research Scholar, HBCSE) // 120m

**1:00-2:00PM** Lunch

**2:00-3:45PM**

*Presentation 1:* Supernovae of Type IIP and their progenitor models using a stellar evolution code MESA (Gururaj Wagle) // 25m

*Presentation 2:* Scientific relations of Meghnad Saha and Homi Bhabha in the early days of Atomic research in India (Alak Ray) // 45m

*Presentation 3:* Does knowing just the products of science without knowing the process (nature of science) render us incapable to build a scientific bent of mind? (Vinay B.R) // 25m

**3:45-4:15PM**

Tea & Snacks

**4:15-5:15PM**

*Talk:* Building an academic community in STEM education research areas. (Jayasree Subramanian) // 60m

**7:30PM onwards** Dinner

### Day 3 | March 15 (Friday)

#### 9:30AM-10:45 AM

*Presentation 1:* Gödel's Incompleteness and the Place of Experiments in Mathematics: Questioning the Divide between Mathematics and Experimental Sciences (Saumya Malviya) // 45m

*Presentation 2:* Investigating concreteness and abstraction in the context of mathematics education (Herold P C) // 25m

**10:45-11:00AM** Tea

#### 11:00AM-1:00PM

*Symposium:* Resources for Teacher Training and Teacher Education (Prof. K. Subramaniam, Centre Director, HBCSE; Mr Kishore Darak, Lead, Teacher Education, Tata Trusts, Mumbai; Pralhad Vitthal Kathole, Assistant Teacher, Zilla Parishad School, Baliwali, District: Palghar, Maharashtra; Prof. Sybil Thomas, Department of Education, Mumbai University; Dr. Kalpana Kharade, Associate Professor, Somaiya College of Education)

**1:00PM-2:00PM** Lunch

#### 2:00-3:30PM

*Presentation 1:* Understanding learners feedback seeking processes during collaborative problem solving and scaffolding it for enhanced learning (Narasimha Swamy K L, Chandan Dasgupta) // 25m

*Presentation 2:* Improving uncertainty management skills of the learners in the context of engineering design (Navneet Kaur) // 25m

*Presentation 3:* Interactive Lecture Demonstration - An effective tool for science popularization (Ravi Sinha) // 25m

**3:30-4:00PM** Tea & Snacks

#### 4:00-5:00PM

*Presentation:* Artefact-use and cognitive consequences: Why history matters? (Gagan Deep Kaur) // 60m

#### 5:00-5:15PM

Vote of Thanks  
Concluding remarks by the Director, HBCSE

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Kindly note that the time indicated is inclusive of presentations, queries and discussions. The presenter is free to utilize the allotted time in a manner convenient or follow 45m (35m+10m) and 25m (20m+5m) format.