

STEAM ACADEMY NEWSLETTER



Regn. No: PKD/CA/126/2019



MESSAGE FROM THE FOUNDER...

The STEAM Academy is dedicated to the goodness and greatness of science and is engaged in immersing the young generation in the culture of science by continuously augmenting their science capital. We provide engaging science and technology experience by the knowing and doing method of science.

The Academy is indeed very young and is officially under one year. But the Academicians bring in together 250 science years from diverse professional areas from centres of excellence. We have also access to huge intellectual resources from fellow academicians.

We kick started from a Science Centre and showcased scistorytelling to a houseful of significant educators. That was the crucible from which we conceptualized the Academy. We swiftly moved to a Museum and took exciting basic science to learner visitors. We replicated this in the open theatre of another museum. These events now go on with perfunctory frequency. We have created a hybrid brave new sciencey space in museums.

We are thrilled at the spontaneous and phenomenal encouragement we received from the educator community to our programs designed and delivered in our signature scientific style. We are marching on with majestic instancy and deliberate speed.

Three Academicians made a month long study visit to the UK Museums and explored the best practices and integrated them into our ethos.

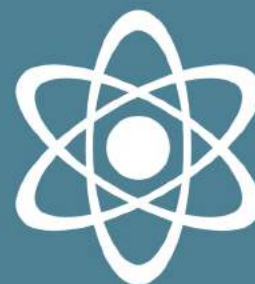
In celebration of the International Year of the Periodic Table-IYPT-2019 we authored a book 'We are 118' and reached out to thousands of learners with elemental scistories.

I thank the community of learners and educators for the trust placed on us. The unyielding Academy will strive to prepare next generation learners future ready with optimal science capital.

DR. A.P. JAYARAMAN

OUR MISSION...

Preparation of Future
ready Generation
learners by increasing
their science capital with
enjoyable nonformal
STEM education



OUR VISION...

Propagation of the
goodness and greatness
of science and the
Advancement of Scientific
Culture



10
PROGRAMS



Chhatrapati Shivaji
Maharaj Vastu
Sangrahalaya
Museum

Partner
Museum on
Wheels



32
PROGRAMS



Schools

FOCUS AREAS

- Develop 21st Century Thinking Skills in Teachers and Students
- Nurture Creative Science Literature
- Catalyze Next generation STEM Standards in schools
- Create science capital networking with museums, parks and gardens
- Conduct Professional Development Programs for Teachers
- Provide consultancy for Science festivals and Exhibitions
- Meet a Scientist events
- Promote Science through Storytelling
- Projects

Museum Centric
School Centric
Teacher Centric
Expert Centric

Breaking the barriers of the classroom, the museum provides a relaxed, interactive and innovative setting to enhance the joy of learning science...



21
PROGRAMS

Dr. Bhau Daji
Lad Museum



A great life is inspired by
Arts and guided by Science...

Prof. S. Sivadas
Emeritus President

POPULAR PROGRAMS

FREE SESSION

FROM ASHES TO FLASHES

A Talk on the Evolution & History of Electricity
In collaboration with STEAM Academy

Join us for a session that will take you on a journey of electricity, from humans discovering fire by rubbing dry wood and stones to electricity being available in households at the touch of a button. We have come a long way. Burning fossil fuels, taming waterfalls and the splitting and fusing atoms, capturing sunlight, we march on our electric journey. Learn how electricity has evolved through the years.

TUE, 13 AUG 2019
11 AM - 1 PM
Venue: Education Centre,
Dr Bhau Daji Lad Museum
Language: English
Age: Grade 6 and above

28 JULY
G.N. COLLEGE
MUMBAI

NUCLEAR MASALA DOSA

DR. A.P. JAYARAMAN

FREE SESSION

AFTERLIFE OF ELECTRONICS

A Talk on E-Waste Management
In collaboration with STEAM Academy

Have you ever wondered what happens to your mobile phones, computers, TVs, table lights etc. when they become obsolete? With increasing number of products, electronic waste is rising at an alarming rate and polluting land, air and water. Join us and learn about effective management of E-Waste.

The session will be conducted by Namrata Mankad who has a

THU, 20 JUN 2019
11 AM - 1 PM
Venue: Education Centre,
Dr Bhau Daji Lad Museum

TALK

Insights into Space Engineering and Exploration

by **Dr. Anita Sengupta**,
Professor of Astronautics, University of Southern California
In collaboration with The Academy of STEAM

Mars is the next destination to explore in our journey through the solar system. Join us for a talk by Dr. Anita Sengupta as she discusses the motivation for Mars exploration and how engineering challenges are tackled with cutting-edge technologies and out-of-the-box thinking. Engineering the Red Planet is the key to our future!

Dr. Anita Sengupta is a NASA rocket scientist and aerospace engineer who for the past 20 years has been developing spacecraft technologies that have enabled the exploration of Mars, Asteroids, and deep space. She is now leading the next generation of technologies that use space-age technology to improve transportation with reduced carbon footprint as the Co-Founder and Chief Product Officer (CPO) of Airspace Experience Technologies (ASX).

FREE WORKSHOP

Be a 21st Century Scientific Teacher

In collaboration with
the Academy of STEAM Stories
(Science, Technology, Engineering, Arts & Mathematics)

Two-hour teacher-training workshop aimed to introduce the scientific method and its application across disciplines. Participants will also learn to recognize patterns in science and develop STEAM skills. There will also be a narration of some stories.

Workshop will be conducted by **Dr. A.P. Jayaraman**, a renowned clear scientist and Vice-Chairman of the National Centre for Science Communication, with 50 years of experience.

Friday, 15th June 2018
11 am - 1 pm
Venue: Education Centre,
Dr. Bhau Daji Lad Museum City Museum
Free Workshop, museum entry charges apply.
RSVP: education@bdlmuseum.org

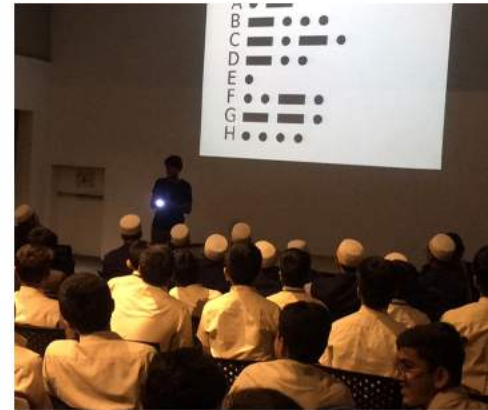
Carbon Dating

Chemistry meets History

Archaeologists dig up old things and historians give ages of those things. Scientists have a precise way of deciding the age of old artifacts if they contain carbon. They determine the amount of radiocarbon present in the object and fix its date. The story of this Nobel-prize winning discovery called radiocarbon dating will be told by **Dr. Rupesh**

16th Aug, Fri
10.45 am - 1.30 pm
Auditorium, CSMVS
Grade 7-10

To register please email
us education@csmys.in



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We look forward to receiving your ideas and thoughts to guide us forward!

