

**Report : Science and Art competition 2016**



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This year, Exciting Science Group (ESG) organized "Science and art competition" in two phases, on 25 June and 16 July 2016 respectively, considering overwhelming response from various city based schools. The objective of this competition was to motivate students to understand the correlation between science and art thereby boost their imagination and creativity. It was a really good platform to the students who are good in illustration skills and encouraged their thinking skills in scientific concepts.

### **1. Science and Art competition ( 25 June 2016) : At Hutatma Balveer Shirishkumar Vidyalaya**

On Saturday, 25<sup>th</sup> June 2016, Exciting Science Group organized first phase of "Science and Art competition 2016" for Pune Municipal Corporation (PMC) schools at Hutatma Balveer Shirishkumar Vidyalaya from 10 am to 1:30 pm. It was open for 8<sup>th</sup> and 9<sup>th</sup> grade students.

102 students from the following 8 PMC schools participated: Hutatma Balveer Shirishkumar Vidyalaya, K.C Thackeray Vidyaniketan, Dr. Vasantdada Patil Vidyaniketan, Babu Jagjeevan School, Ahilyadevi Holkar School, Swami Vivekanand School, Smt. Shantabai Balkrishna Dhole Patil School and Savitribai Phule Prashala.

**The students were given the following topics based on science on the day of the competition:**

1. A day in a science lab
2. The world without water
3. If I were Microorganism
4. My dream car

Renowned **artist Ravi Paranjape** was the Chief Guest and artist Jayanti Patil was the judge for the event.

During the event, the chief guest Mr. Ravi Paranjape addressed the students about correlation between Art and Science. He said, "Science and art are fields which could only be developed through an innovative approach. Students must start questioning everything and should think beyond their curriculum. They have to believe in their perception. This will help us with innovations in science as well as nation-building activities."

### **2. Science and Art competition : ( 16 July 2016) : At Venture Center**

On Saturday, 16<sup>th</sup> July 2016, ESG organised a special science talk on "The art and Science of colour" and second phase of "Science and Art competition 2016" at Venture Center from 10.00 am to 1.30 pm. It was open to all the city based schools. The goal of this combined event was to give insights on how science played an important role in making variety of colours, also to brief them about the history of colours, our traditional art forms and techniques used in art conservation.

For this event, ESG received more than 200 entries from 40 schools across the city.

**Dr. Sayam Sengupta** (Scientist at CSIR –NCL) who was the speaker for this special popular talk addressed the students on the topic "The art and Science of colours". He briefed the students about the colourful history of paints since 5<sup>th</sup> century AD till date, especially about Lapiz Lazuli: Ultramarine blue obtained from Lapis stone, Prussian Blue, and Cochineal red which is obtained from specific species of a bug. He explained how colours are formed through various chemical reactions and the role of various binders in the paints.

He showed mesmerizing paintings from ancient caves to canvas, like paintings from Caves Lascaux, France , Bhimbhetka from Madhyapradesh, India, Bodhisattva Padmapani at Ajanta Caves, till the Michelangelo's the most influential works in Fresco in the western art history , Portrait of a Young Man by Raphael, Blue print by Astronomer Sir John Herschel, Mona Lisa by Leonardo da Vinci, Pablo Picasso's special two face paintings. He also advised students to visit historic sites and restore our cultural heritage and beauty of such masterpiece.

This informative lecture was followed by "Science and Art" competition" to for 7<sup>th</sup> to 10<sup>th</sup> grade students.

**This competition was conducted in two groups:**

Group 1: For 7<sup>th</sup> and 8<sup>th</sup> standard students

Group 2: For 9<sup>th</sup> and 10<sup>th</sup> standard students

**For the competition, following topics based on Science and technology were given :**

1. The world without Technology
2. Indian Agriculture in the year 2050
3. A life on another planet

**Dr. Shivprasad Patil (Associate professor at IISER)** was the Chief Guest and Artist Jayanti Patil was the judge for the event.

During both the phases of Science and Art competition, all the participants received colouring materials and certificate of participation from the Exciting Science Group. Participants were also provided with refreshment during the events. The winners were felicitated with prizes at the end of the competitions.

**Dr Sayam Sengupta addressing the students during the talk “The Art & Science of color”(16 July 2016)**



**Artist Ravi Paranjape addressing the students during the Science and Art competition (25 June 2016)**



The participants engrossed making drawings based on Science and technology



## Results of “Science and Art competition” held on 25 June and 16 July 2016

- Science and art competition: 25 June 2016**

Position	Name	School	Topic
Winner	Suraj Kamble	iTeach - Babu Jagjeevan school	A day in science lab
Runner Up	Laxman Prajapati	iTeach school - Ahilyadevi Holkar school	The world without water
Runner Up	Prachi Balla	K C Thackeray Vidyaniketan School	The world without water
Third	Sahil Ujagare	Dr. Vasantdada Patil Vidyaniketan School	My dream car

- Science and art competition: 16 July 2016**

- Group A : 7<sup>th</sup> and 8<sup>th</sup> standard students**

Position	Name	School	Topic
Winner	Ruhi Kabra	Vidya Valley school	A life on another planet
Runner Up	Isha Vakikar	CBT Sadhana Vidyalaya	The world without technology
Third	Aarya Bhawsar	Modern school , Ganeshkhind	Indian Agriculture in the year 2050

- Group B: 9<sup>th</sup> and 10<sup>th</sup> standard students :**

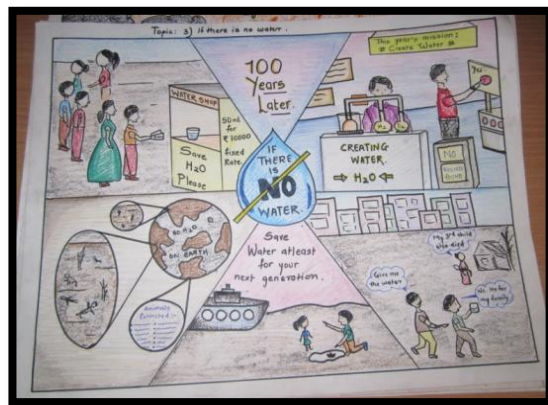
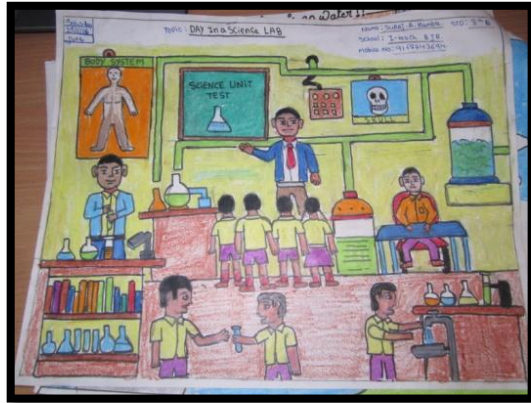
Position	Name	School	Topic
Winner	Khushneet Kaur	City International School, Pimpri	Indian Agriculture in the year 2050
Runner Up	Pallobeit Biswas	Army Public School Kirkee	A life on another planet
Third	Aishvarya Joshi	Navbharat highschool, Shivane	Indian Agriculture in the year 2050
Third	Aarya Kabra	City International School , Pimpri	A life on another planet

### Winners with Chief guest Dr Shivprasad Patil and Artist Jayanti Patil



Winners receiving prize from Artist Paranjape

Winners Drawings



Feedbacks from the participants :

Science and Art competition : 25 June 2016 :

After the event, the PMC school students were asked for their feedback and suggestions, the following are what they had to say:

Kirtiraj Mandakar, Dr Vasantdada Patil Vidyaniketan:

चित्रकला ही एक कला आहे आणि कुलू हे  
संगणकांना आवडते. "देणाऱ्यांनी देत जावे घेणाऱ्यांनी घेत जावे  
देता देता एक विवशी देणाऱ्यांचे हीन ध्यावे'  
आम्हांला शिक्षणालावन - अनेक Actांसांख मध्ये भाग-मस्मान

छोटे आवश्यक आहे. जीवनात वा roundee असावे असे  
संगणकांवा वाने. त्या स्पष्टते (चित्रकला) येऊन खूप छान  
वरले. विषयही छान होते. मी Imagine कडे पाठ्याशिवाय  
जग म्हणजेच भाव, राह, राज्य वगैरे - कोरे. मी मराठवाडोतील  
एक प्रसंग वाखवले आहे.  
संगणकांसाठी कलही दिले. रकथ पेन दिले  
मार्गदर्क - नायत्री मंडम थान उत्तम मार्गदर्क दिले  
खूप छान वस्तु उथे छे. येऊन असे अपुण स्यथा  
ध्याव्यात वेगळ्या विषयांवर. चित्रकला आणि science  
मधून चित्रकला स्यथा ध्याव्यात.

Chirag Shinde, K C Thackeray Vidyaniketan:

This was fantastic fantastic Competition. All  
Preparations were very well arranged. Next  
time all preparations should be like this. I had  
enjoyed this competition a lot.

Laxman Prajapati, Ahilyadevi Holkar School:

School is so nice. The crayons are also so nice in this school  
there are so many facilities. so 1 thing every the competition  
should be in this school.

**Science talk and Art competition : 16 July 2016 :**

After the combined event of Science talk and Art competition, the students were asked for their feedback and suggestions, the following are what they had to say:

**Aadit Dane (Millennium National School)**

Very fun, interesting talk. I didn't want it to stop. amazing explanation. Perfectly fitted into & simpler words. Very good, fresh experience. Will surely share with ~~othe~~ others. Will come to ~~other~~ other talks surely. Very interesting topic. Whole lecture, the topic was on ~~to~~ track the whole lecture.

**Alok Shinde (Army Public School. Kirkee)**

Yes, I understand by this competition where I stand in the world of Art and This is very important for me.

**Nikita Nikam ( City International School, Pimpri)**

Very fun and interesting. Enjoyed a lot.  
Got many new things to know.  
Very interesting topics and gave us chance to show our creativity and imagination.

**Shree Bhavsar ( Vidyanand Bhavan High School)**

The lecture given by Mr. Sayam Sen - On topic 'Art and science of colour' was fantastic because ~~to~~ he told the history of the colour and shows many picture of Ancient drawing - he told how colour blue and red exist - he show traditional ancient picture of Ajanta caves.

**Kishore R. (DAV Public School)**

Even though I have no hopes of winning the competition, I loved it because it made me think and put my creativity to use.



**Sneha Vedpathak ( Pawar Public School , Nanded City)**

The lecture given by sir was fabulous. I also like the PPT. I enjoyed the competition and it should be twice a year.

**Amol Patil (Lonkar Madhyamik Vidyalaya Mundhawa)**

Ajanta caves, Great works of art are susceptible to effects of aging. I like this topic because there was information about Ajanta caves, and great works about painting, colouring, and many more activities, and thinking power of them.

**Aakanksha Panasare ( Jnana Prabodhini Prashala )**

It was an interesting topic. Explanation, with examples was very involving and interesting. I would like to attend more talks. It was an interesting scientific lecture, and scientific concepts were explained so they were easy to understand.

**Juee Chandrachud ( Jnana Prabodhini school)**

The lecture was very nice and the explanation was very good. The lecture was very short. It was very amazing and interactive. The speaker explained the topic very nicely and it was very engaging. The topic was different and it was conveyed nicely. It would have been ok if the lecture time would have been more.

**Aarya kabara ( City International School Pimpri)**

The Art and Science colour talk was fabulous. I came to know a lot of new facts about colours. The competition was also like an adventure as topics were very interesting.


## Exciting Science Group in news

- Sakal Times – 26 June 2016

### PMC students paint futuristic picture

Reporters Name | Sakal Times | Sunday, 26 June 2016 AT 11:27 PM IST

Exciting Science Group, Science and Art



Pune: A volunteer group of scientists from CSIR-NCL and IISER-Pune called Exciting Science Group (ESG) organised 'Science and Art' competition for Pune Municipal Corporation (PMC) schools on Saturday. The competition received a good response from the schools.

Sandhya Jadhav, Headmistress of Hutatma Balvir Shirishkumar Vidyalaya, told Sakal Times that the response was quite encouraging. "More than 100 students from eight PMC schools participated in the contest. The competition gave platform to the PMC students who are good in illustrations skills and also encouraged their thinking skills in scientific concepts," added Jadhav.

She added that such initiatives help the students realise that there is science in ever aspect of life.

During the prize distribution ceremony, chief guest Ravi Paranjape spoke to the students about Art and Science, and how they are correlated. "Students have to learn our ancient arts and develop their own style. This will give birth to new innovations. Students should think beyond their curriculum. They have to believe in their perception. This will help us to create new innovation in science as well as build our nation," said Paranjape.

Topics given to the students were 'Draw a day in science lab', 'The world without water', 'If I were a microorganism' and 'My dream car'.

- Pune Mirror – 26 June 2016

### SEEING SCIENCE THROUGH BRUSHSTROKES

By Darshana Daga, Pune Mirror | Jun 26, 2016, 02:30 AM IST

*Group of scientists from CSIR-NCL, IISER organise drawing competition for PMC-run schools in order to bring out excitement and wonder of the subject*




It was a rare academic treat for students of Pune Municipal Corporation (PMC)-run schools as a group of scientists organised a competition combining science and art for them on Saturday. As many as 102 students from eight different schools took part in the competition by The Exciting Science Group (ESG) – formed by experts from the Council of Scientific and Industrial Research-National Chemical Laboratory (CSIR-NCL) and Indian Institutes of Science Education and Research (IISER).

The topics given for drawing were 'A day at the science lab', 'The world without water', 'If I were a micro-organism' and 'My dream car'. "This competition aims to motivate students so that they understand the correlation between science and art, that will also boost their imagination," said NCL scientist Guruswami Kumarwami. ESG organises regular programmes to bring out the joy and excitement of scientific research among school students.

Artist Ravi Paranjape, who was the chief guest at the event, said, "Science and art are fields which could only be developed through an innovative approach. Students must start questioning everything and should think beyond their curriculum. They have to believe in their perception. This will help us with innovations in science as well as nation-building activities."

Gayatri Kshirsagar, an ESG volunteer impressed upon the uniqueness of the initiative, saying, "There are many drawing competitions organised in the city, but no one takes science as the theme." IISER scientist Sukirt Dey added, "ESG aims to create an interface between school students and practicing scientists. The primary objective of this group is to have scientists share the excitement of science with school children, and not to 'teach' science."

Students lapped up the theme with enthusiasm. "It was a challenge for the imagination. Though I learn science every day, it was difficult to visualise that and draw. But, when I completed my drawing, there was a sense of fulfilment," shared Prachi Balaji Balla from K C Thakare Vidya Niketan School.

Laxman Prajapati from Ahilyadevi Holkar School, who had chosen the topic, 'The world without water', said, "When I started to think on my picture, I recollected the recent issue of farmer suicides owing to the severe drought in the state. But, it is not just the humans who would be in trouble. The entire ecosystem would be lost without water. So, I incorporated both the things in my drawing."

*The Students had a host of topics to draw from, one of them being 'The world without water'. PICS: MAHENDRA KOLHE*

- Sakal (28 June 2016)



शेवाजीनगर : हुतात्म्या बालवीर शिरीषकुमार विद्यालयात घेतलेल्या चित्रकला स्पर्धेत विद्यार्थ्यांनी काढलेली चित्रे.

## चित्रकलेत सूरज कांबळे प्रथम

एक्ससायटिंग सायन्स ग्रुपच्या (ईएसजी) वतीने आंतरशाळेय चित्रकला स्पर्धा पेटण्यात आली. या स्पर्धेत महापालिकेच्या आठ विद्यानिकेतन शाळांमधील १०२ विद्यार्थी सहभागी झाले होते. स्पर्धेत बाबू जगजीवन शाळेतील सूरज कांबळे याने प्रथम क्रमांक टक्कविला आहे.

'ईएसजी' तर्फे 'विज्ञान आणि कला' यावर आधारित ही स्पर्धा रेंवण्यात आली. या स्पर्धेसाठी चित्रकार रवी परंजपे प्रमुख पाहणे म्हणून उपस्थित होते. कार्यक्रमाचे समन्वय गायत्री खीरसागर यांनी केले. 'विज्ञान प्रयोगशाळेत एक दिवस', 'पाण्याशिवाय जग', 'माझ्या स्वप्नातील कर' असे विषय स्पर्धेसाठी दिले होते. स्पर्धेत लक्ष्मण प्रजापती (अहिल्यादेवी

होळकर शाळा) आणि प्राची वल्लभ (केरतीटी) यांनी द्वितीय क्रमांकाचे पारितोषिक पटकविले, तर सलिल उज्जवरे (डॉ. वसंतदादा पाटील शाळा) याला तृतीय क्रमांकाचे बक्षीस मिळाले. जयंती पाटील यांनी या स्पर्धेचे परीक्षण केले.

परंजपे म्हणाले, "विद्यार्थ्यांनी आपली प्राचीन कला शिकण्यावर भर द्यावा आणि त्यातून आपली स्वतःची शैली विकसित करावी. यामुळे नावीन्यपूर्ण कलाकृती साकारण्यास मदत होईल. मोठी स्वप्ने पाहूवीत आणि ती प्रत्यक्षात उतरविण्यासाठी प्रयत्न करावेत." विज्ञान व कला यावर आधारित अमरलेखी ही चित्रकला स्पर्धा महापालिकेच्या शाळांमध्ये पहिल्यांदाच आयोजित करण्यात आल्याचे खीरसागर यांनी सांगितले.

- Sakal Times (20 July 2016)

# Scientists hold talk on art and science of colours

The goal was to promote correlation of science and arts

**ST CORRESPONDENT**  
reporters@sakaaltimes.com

**Pune:** A volunteer group of scientists from CSIR-NCL and IISER-Pune called Exciting Science Group (ESG) organised a 'Science talk on 'The Art and Science of Colour' for students of private schools followed by science and art competition on Saturday at Venture Centre.

The goal of this combined event was to motivate students to understand the correlation between science and art which will also boost their imagination.

The topics included in the competition were the world without technology, Indian agriculture in

2050 and a life on another planet. More than 150 students from various schools across the city attended the competition to merge science with art.

## BOOSTING IMAGINATION

Saya Sengupta, a scientist from CSIR-NCL, addressed the students on the topic 'The art and science of colours'. He briefed the students that history of colours and how colours are formed through various reactions.

Shivprasad Patil, associate professor at IISER, was the Chief Guest for the event whereas artist

Jayanti Patil judged the competition.

This competition was conducted in two groups, first for for class 7 and class 8 and the second group for class 9 and class 10.

Gayatri Kshirsagar, associate from ESG, said that the students often think that science and art are different things.

"We are merging science with art, we are trying to make the students realise that science is present everywhere. Hence, having an scientific attitude is necessary and hence, this exercise helps the children understand the science involved in every day life," added Kshirsagar.