

Meet Indian Physicists

Rohini Godbole: The "high energy" scientist (b - 1952)

While the Higgs Boson was making waves, there was an additional reason for India to be happy. Rohini Godbole was part of the 10-member International Detector Advisory Group for the International Linear Collider in the European research lab, CERN. In the wake of the Large Hadron Collider (LHC), Godbole believes that vast amounts of data have to be analysed, predictions made and implications of experiments worked out.

In her pursuit of science, Godbole acknowledges the encouragement she received from her teachers at school. After receiving her doctorate from the State University of New York at Stony Brook, she returned to India for post doctoral studies and became a Professor at the Centre for High Energy Physics at the Indian Institute of Science (IISc) in Bangalore. Her interests lie in Standard Model (SM) of particles and Physics Beyond Standard Model (BSM). She has authored over 100 research papers and has received numerous accolades. Rohini Godbole is the chair of the Indian Academy Panel for *Women in Sciences*, and is actively involved in mentoring aspiring female scientists.



Image Source: http://theory.tifr.res.in/~srhic/photos/Dec6/DSC_8997.JPG



Reflections

IPhO 2015 NEWSLETTER



Today's Attractions

Imagica (Students)

Gear up today for a fun and action filled excursion to Adlabs Imagica. Spread across 300 acres, this amusement theme park is located between Mumbai and Pune on the Mumbai-Pune Expressway. Imagica features a water park and there are themed attractions, family rides, thrill rides and rides for kids.

Please note: Be sure to carry with you your swim-wear, towel and a change of clothes. Stay in groups and make sure you are in the company of your friends at all times. Have fun!



Image credit: Wikimedia Commons/Imagica Adlabs

Visit to Godrej Lock Factory (Leaders)

Godrej Locking Solutions and Systems is a highly reputed company delivering world class locking solutions. It was conceptualised in 1897 (more than a century ago) by Ardeshir Godrej. Today, it is a large group that is a household name in India owing to their diverse range of consumer products, constant innovation and state of the art technology. Since its inception, the legacy of Godrej as a trusted name continues and ensures security to consumers.

As you visit the factory, do keep an eye out for the vast mangroves in the vicinity of the factory. The largest privately managed belt of mangroves in Mumbai is supported by the *Soonabai Pirojsha Godrej Foundation*, which is located at Vikhroli. This initiative by Godrej demonstrates how industry and nature can exist in harmony. The flora and fauna composition of the area is diverse.

Please note: Wear fully covered shoes. No loose garments and handbags are allowed on the factory floor. Photography and videography is not permitted inside.

COMEDY CENTRE



MY HOBBY: TEACHING TRICKY QUESTIONS TO THE CHILDREN OF MY SCIENTIST FRIENDS.

<https://xkcd.com/1145/>

SYMBOL SUDOKU

Well, we pulled it up a notch. Now try and fill in the grid such that every horizontal row, every vertical column and every 3x3 box contains the symbols ($\alpha, \beta, \gamma, \theta, \pi, \phi, \lambda, \Delta, \Omega$) without repeating the 9 symbols in the same row, column or 3x3 box.

Ω	ϕ	α	γ	θ	λ
	Δ			Ω	
		λ	ϕ		
θ	β			γ	Ω
		π	θ		
Δ	γ			ϕ	π
		γ	λ		
	π			λ	
α	Ω	β	Δ	π	ϕ



Nguyen Quang Nam of Vietnam gives a big thumbs up to the IPhO kurta.



A big hello from Mustafa Grabus of Bosnia and Herzegovina to his Mom!

Geocaching is an outdoor recreational activity, in which participants use navigational techniques to hide and seek containers, called "geocaches" anywhere in the world. It is like a treasure hunt game. Today Jan Enno Van Der Laan (Leader, Netherlands) and Peter Vanko (Leader, Hungary) found one such 'geocache' during their excursion to Kanheri Caves!



Ekhlas Ahmed from Egypt got a henna tattoo!

E	A	H	N	T	Z	N	L	H	Z
I	L	F	A	A	E	S	X	U	U
R	S	F	W	W	M	K	N	B	O
U	E	O	T	E	K	A	A	B	K
C	T	O	S	M	M	I	R	L	I
E	N	O	N	N	V	Q	N	E	R
I	B	A	Y	T	Q	O	D	G	O
R	M	E	I	T	N	E	R	E	G
A	F	K	C	N	A	L	P	E	E
M	H	L	N	T	I	J	T	J	V

Answers to yesterday's Word Search

"Nothing in life is to be feared. It is only to be understood"
Marie Curie

Students, we want to hear more from you!

Do you want to share with us your experience in India, a funny story, something nice about your new friends from other countries, anything that spreads a smile?

Write in about 70 words and share it with your student guide. He/She will make sure that we get it! OR

Email it to us at- reflections.ipho2015@gmail.com

Today@IPhO

Leaders: Excursion to Godrej Lock factory, 0800 - 1300 hrs

Students: Excursion to Imagica Amusement Park, 0800 - 1700 hrs



Temperature
Max: **33°C / 91.4°F**
Min: **28°C / 82.4°F**

A few spells of rain could occur

Source: Regional Meteorological Centre, Mumbai

Finally done with exams!

Visit to SGNP & Kanheri caves

Post exam euphorial



Rendezvous with IPhO participants

Netherlands
Christian Primavera
Ewoud Wempe
David Liu
Pepijn De Maat
Ethan Van Woerikom

Poland
Adam Sebastian Kucz
Stanislaw Pawel Kurdzialek
Rafal Ernest Cwiek
Jan Krzysztof Marucha
Piotr Krzysztof Kubala

Montenegro
Andrija Rasovic
Danilo Pejovic

Nigeria
Bamidele Andrae Ayomide
Ebubechi Emmanuel Ezenwanne
Mitchell Chukwuebuka Okoli
David Bayode Oyinbo
Oghenetega Wisdom Oguns

Norway
Peter Poleszynski Hoel
Peter Erdmann Dougherty
Eilif Tandberg Swensen
Martin Aria Mojahed
Mikal Solberg Stappnes

Mongolia
Tugsbayasgalan Maniabaatar
Bat-Orgil Bayar
Banzragch Dolgormaa
Iserenchimeg Khasgerel
Turtsetseg Nanjid

People's Republic of China
Deng Pan
Xinyu Wang
Chenxing Zhang
Jingyu Zhao
Lingbang Zhu

Nepal
Bibek Kumar Pandit
Prabhat Devkota
Satish Wasti
Ayush Kumar Shah
Ajay Mishra

Pakistan
Noor Ul Huda
Talha Irfan Khawaja
Tabish Saeed
Zaid Hassan Chaudhry
Bushra Mansoor



YOU SPEAK!

I expected some basic concepts but the questions were complex. It was difficult.

Khee Ing Marcus Leong
Malaysia

Practical exam was very long. But the theory was fine. It was as expected.

Umut Eren Usturali
Turkey

Since 2015 is the International Year of Light, we expected some questions on light. And it was there, but it was difficult. We both have applied for electrical engineering. We had a great experience in India. We especially enjoyed the *Mallakhamba*, now looking forward to Imagical!

Noor Ul Huda & Bushra Mansoor
Pakistan

The carvings on the walls of the cave were very beautiful. The entire view of the city from the hill top was amazing.

Paul Elliott Stanley
United States of America (Leader)

I love to be in Nature. Just the other day, we saw South Mumbai's architecture, and today we see this (SGNP & Kanheri Caves). Such stark differences, all in one city! We have National Parks in Hungary too, but not so vast. If it were upto me, I would have stayed here all the 5 days!

Peter Vanko
Hungary (Leader)