

## Meet Indian Physicists

### Anna Mani: A Braveheart (1918 – 2001)

Anna Mani is one of India's most famous woman physicist and meteorologist. Born and raised in Kerala in the south of India, Mani who was originally keen on pursuing medicine, ended up majoring in Physics in college. Post college, she worked in Nobel Laureate C.V. Raman's laboratory as a graduate student & studied spectroscopy of diamonds and rubies. Despite exemplary research work, she wasn't conferred with a PhD degree by the University since she didn't hold a master's degree. To this day, her completed PhD-dissertation remains in the library of Raman Research Institute! This didn't discourage Mani's pursuit of science. She specialised in meteorological instrumentation in England and joined the Indian Meteorological Department (IMD) in Pune (India) in 1948. Nearly 3 decades later, she retired as the Deputy Director General of IMD. Mani's life is a testament to all women who want to break the glass ceiling and achieve what they want. Though Mani belonged to a time when female scientists were barely a handful, she never felt that her pursuit of physics was unusual. She was vocal about the difficulties and discrimination she faced in her journey to becoming a scientist. She remains to this day, an inspiration to all of us.



Image Source: Wikipedia/Gobonobo



# Reflections

IPhO 2015 NEWSLETTER



## Today's Attractions

**N**ehru Planetarium was commissioned in 1977. Over the last three and half decades, it has evolved into a hub for scientific study of astronomy and as a congregation centre for scientists and scholars. Discussions, lectures and other programmes are arranged periodically on various stellar and astronomical events, with an aim to popularise astronomy as a field of study and also to inspire young minds. Science quiz contests, astro-painting, science elocutions, astro-poetry and astro-quiz competitions are some of the popular activities that are organised and held here. The planetarium also makes special arrangements to watch, study and photograph solar & lunar eclipses, amongst other astronomical events.

Today, you will also get to visit the "Discovery of India" exhibition, a permanent exposition inspired by the book of the same name. The book is authored by Pandit Jawaharlal Nehru, the first Prime Minister of free India. It was written by him while in prison from 1942-46. This imprisonment was a result of his fight against the colonial rule through the "Quit India Movement". The book is a journey of discovery of his beloved country from ancient times till the Indian freedom struggle. An amalgamation of philosophy, art, social movements, economics, science, and religion, *Discovery of India* depicts the changes in India's socio-political scenario over time.

Photographs, three-dimensional replicas of major architectural and artistic works, dioramas and audio-visually collectively forming over 50,000 exhibits, spread over an area of 100,000 sq. feet, can be seen here.

We hope you embark upon a learning journey today!



Source: Kaushal-Karkhanis-NSC-Flickr

### GUESS WHO?

Five youngsters entered a contest to guess how many marbles were in a bowl. Anu guessed 45, Ahmed guessed 39, Anna guessed 49, Amarjit guessed 50, and Alisha guessed 47. One was off by 6, one by 5, one by 2, and one by 4. One was right.

Courtesy: Gray's Brain Teasers and Riddles - <http://256.com/gray/teasers/>

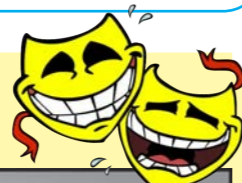
## BOLLYWOOD

### DID YOU KNOW?

The Indian Film industry is the largest film industry in the world and it produces more than 1000 feature films per year.

Indians buy 2.7 billion movie tickets annually, the highest in the world. But average ticket prices, ranging from Rs. 56 to Rs. 239 are among the lowest in the world. Thus, the revenues are a fraction compared to Hollywood!

## COMEDY CENTRE



<https://xkcd.com/162/>

UNSCRAMBLE THE FOLLOWING WORDS TO FORM WORDS COMMON TO PHYSICS:

**SONGAMTR  
RAGOVDOA  
YNCRCTOOL  
ARGITYV  
RNICTFOI  
TQANUA**

The DAE which supports IPhO 2015, completed its Diamond Jubilee (60 years) in 2014. On this occasion, it launched a new logo. This logo depicts six pairs of outstretched helping hands, which also represent the atom, within a circle and symbolically depicts the national tri-colour.



## Today@IPhO

**Students:** You will depart for Nehru Planetarium & Nehru Centre at 0830 hrs.

**Leaders:** Post breakfast and registration, I.B Meeting (Experimental discussion) will commence at 1000 hrs at the Ballroom, Taj.



## Weather Forecast

Temperature

Max: **33°C / 91.4°F**

Min: **28°C / 82.4°F**

One or two spells of thundershower may occur

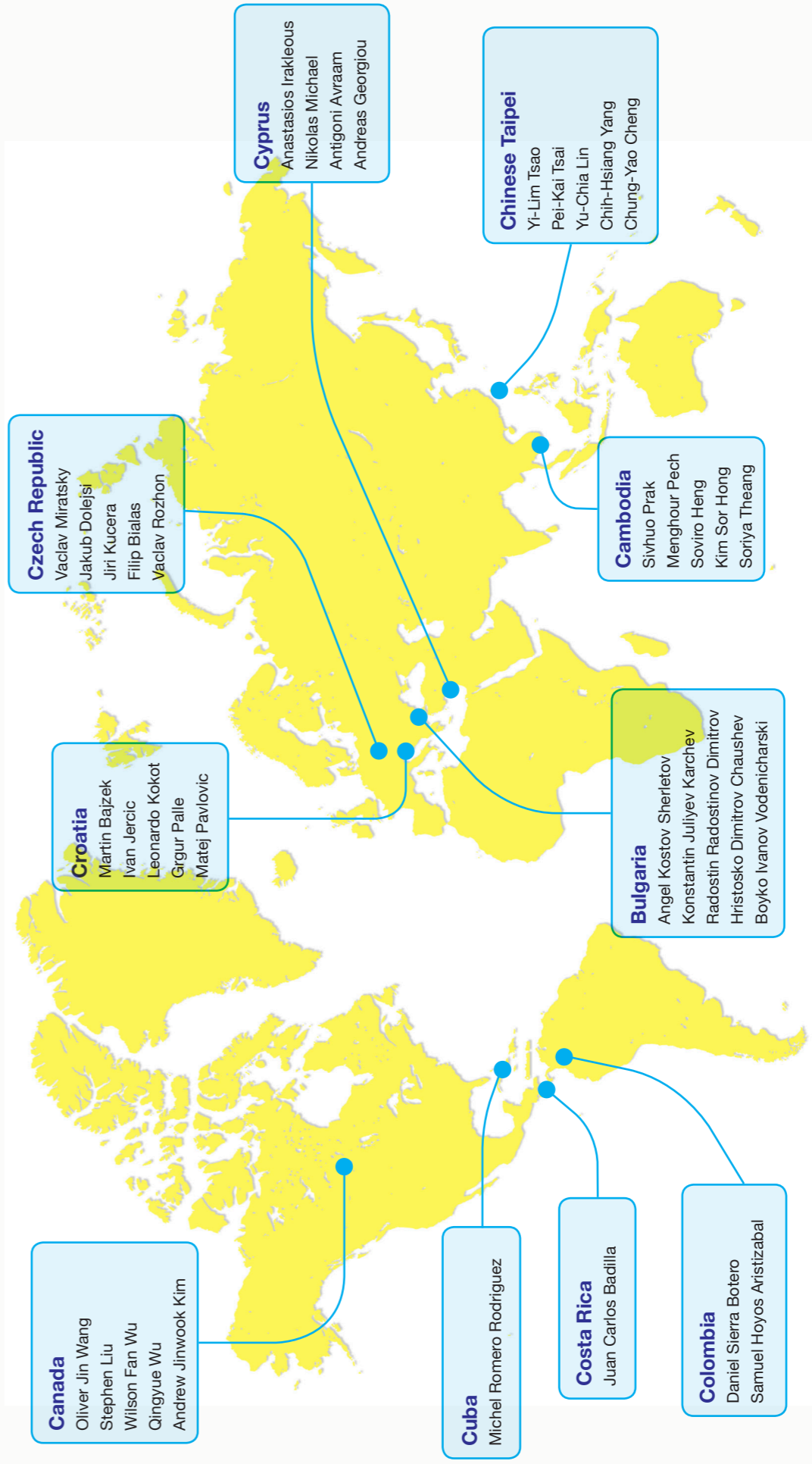
Source: Regional Meteorological Centre, Mumbai

"Science and everyday life cannot and should not be separated"

Rosalind Franklin



## Rendezvous with IPhO participants



### YOU SPEAK!

This is my first ever foreign trip!  
**Dana Iyad Marei**  
 The Hashemite Kingdom of Jordan

It is great here, weather is warm. I am looking forward to the exam.  
**Bamidele Andrae Ayomide**  
 Nigeria

The competition is getting bigger and demanding. But it is a nice way to interact with people from other countries who are doing physics. I want the students to do their best and their participation in this competition means they are already winners.  
**Ignacio Alfonso González Oliva**  
 El Salvador (Leader)