JULY 09, 2015 ISSUE 5

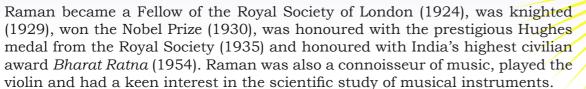
C. V. Raman: First Asian Nobel Laureate in Physics (1888 – 1970)

Sir Chandrasekhara Venkata Raman is the first Asian to receive the Nobel Prize in Physics. The prize was in recognition of his contribution in the field of light scattering, today commonly known as 'Raman effect'. The 'Raman Effect' is significant in analysing the molecular structure of chemical compounds and has several important applications.

Raman graduated at a very young age, and undertook original investigations in acoustics and optics. At the age of 18, he published a paper on 'unsymmetrical diffraction bands due to a rectangular aperture' in the *Philosophical Magazine* (London) in 1906. He founded the *Indian*

Journal of Physics in 1926, which is one of India's oldest journal in Physics and

also established the Raman Research Institute in Bangalore in 1949.



Answer to Word Wheel Game

mechanic MECHANICS.

There are three switches in a room on the first floor and a

lamp with a bulb (non-fluorescent / non-LED) on the third

floor. Each switch is labelled On and Off. One (and only one)

alone in the house.

for you to see whether the light is

on or off from the first floor. You are

You are allowed to turn on and off

the switches as often and as long

only go upstairs once to check on

the status of the lamp. Determine

Courtesy: Gray's Brain Teasers and Riddles

which switch controls the lamp.

- http://256.com/gray/teasers/

as you'd like. However, you can

of the switches controls the lamp. There is no possible way

ace(s), ache(s), acme, acne, ashen, amine, anemic(s), anime, anise,

ashen, came, cane(s), case, casein, cache(s) chase, chime(s), chine,

hie, hen(s), ice(s), inches, inseam, machine(s), mane(s), mean(s),

sane, scenic, seam, semi, schema, shame, she, shine, since, sine,

cinema(s), chaise, chicane, chance(s), each, encash, hames, hem(s),

mace(s), men, mensa, mensch, mesa, mesh, mice, mince(s), mine(s),

mien, misname, mischance, name(s), niche(s), nice, sea, seam, same,



N O N N V Q N E R

BAYTQODGO

F K C N A L P E E

R M E I T N E R E G

M H L N T I J T J V

Word search

Find the 10 hidden physicists

"Prediction is very difficult, especially if it's about the future" Niels Bohr

sources of food.

DID YOU KNOW?

Mumbai plays host to thousands of

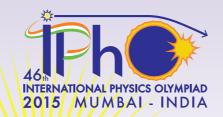
the pink-feathered Greater and Lesse

Mumbai which provide them with rich

Flamingoes each year. Every winter, they

migrate from their breeding grounds to the

mudflats, wetlands and mangroves around



Residence Reside

Today's Attraction (Leaders)

Sanjay Gandhi National Park and Kanheri Caves

Mumbai has a thriving National Park in the middle of the bustling city. Sprawled over an area of around 104 sq.kms, Sanjay Gandhi National Park (SGNP) is home to numerous amphibians, reptiles, birds and mammals including leopards (Panthera pardus) who often live in proximity to human habitation! Rich in biodiversity, this park is the largest remaining green "lung" of the city. Kanheri Caves located within the boundaries of SGNP date back to the 4th century BC. The caves in ancient times housed Buddhist settlements and also served as rest houses for wanderers and weary travellers. Most of these Buddhist caves are chiselled out of volcanic rock. The small

chambers are known as viharas while the larger chambers are known as chaityas. The latter were probably used for congregational worship.

The main chamber has massive figures of the standing Lord Buddha, on either side of the entrance; a colonnade of 34 pillars stand in the inner hallway and a large stupa (shrine) at the far end all carved in the existing basalt rock. Kanheri stands as an exemplary example of the beautiful blend of nature and ancient architecture. If you are done exploring the caves, you can head towards the higher areas which will treat you to a panoramic view of hills, lakes and open expanses.

Note: Make sure to wear good footwear. The rocks can be slippery and the excursion involves a short climb. Remember to carry your rain gear. Videography and photography require special tickets at Kanheri caves.

Image credit: Adithi Muralidhar



Today@IPhO

Leaders: Excursion to Sanjay Gandhi National Park & Kanheri Caves, 1400 to 1730 hrs

Students: Theoretical Examination, BCEC grounds, 0800 to 1530 hrs



Weather **Forecast**

Temperature

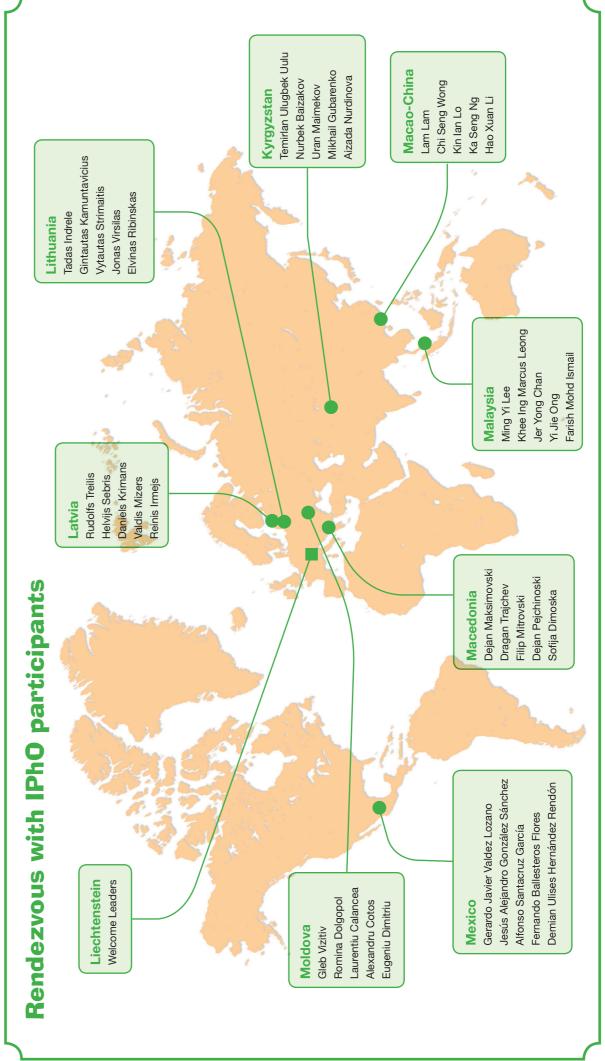
Max: 32°C / 89.6°F

Min: 27°C / 80.6°F

A few spells of rain could occur

Source: Regional Meteorological Centre, Mumbai





YOU SPEAK!

TIFR Labs were very interesting; I particularly liked the way glass tubes were made. I hope to become an engineer some day.

Jayasuriya K. Malsha Vijini Perera Sri Lanka

Finally got spicy food. I like Indian spicy food. Lunchbox is my favourite movie. My grandmother watches classical Bollywood movies.

Cristian Alexandru Frunza

I like songs and movies of Shahrukh, Salman, Amitabh and Aishwarya Rai. I see these Bollywood movies dubbed in Russian. I have seen Swades movie of Sharukh.

Azizsho Mizrobov Tajikistan

South Mumbai has unique and amazing architecture. Mumbai is very hot and there is a lot of noise. People use more public transport here than Africa.

Damien Lawrence Naidoo South Africa