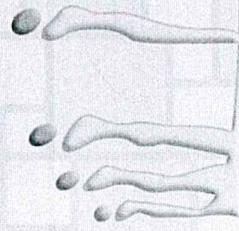


*The Institute of Mathematical Sciences celebrates*  
**International Day of Girls and Women in Science 2019**



The Institute of Mathematical Sciences  
Monday, 11th February 2019  
09:30 - 18:00

The event is open to students (5 girls per school) from classes 8th - 10th



Schools can register online through this website:  
<https://www.imsc.res.in/outreach/IDGWS2019/>

Registration deadline: 7th February (or until we reach capacity)  
Selection notification: 8th February

The program is free. Lunch and snacks will be provided.  
IMSc is unable to provide any assistance towards travel/accommodation.

The Institute of Mathematical Sciences, IV Cross Road, CIT Campus, Taramani, Chennai – 600113.  
For IMSc outreach activities visit: <https://www.imsc.res.in/outreach/>

This background is a non edge-to-edge tiling with squares of 3 different sizes, such that each congruent square has an identical neighbourhood. Are there other ways to arrange the tiles with the same property? Are there other sizes of 3 square tiles that can be arranged similarly?

**Doris Schattschneider**, is a mathematician who studied these and other tilings to make significant contributions to the field of mathematics.

## International Day of Girls and Women in Science 2019 Schedule

<b>11th February 2019</b>	
09:00 - 09:30	<i>Registration</i>
09:30 - 10:30	<p><b>Let there be light!</b> <u>Shanti Bhattacharya</u>, IITM</p> <p>We have come a long way from our ancestors who first learnt to tame fire both for its heat, as well as its light. The sun and fire are no longer the only sources of light and illumination is no longer its only use. Today, we engineer many different kinds of sources for a variety of applications, ranging from life-saving medical devices to technology, whose sole aim is to entertain us! In this presentation, we will look at total internal reflection and interference, and study their role in a variety of everyday applications and phenomena.</p>
10:30 - 11:00	<i>Tea / Juice / Snacks</i>
11:00 - 12:00	<p><b>Popular matchings</b> <u>Prajakta Nimbhorkar</u>, CMI</p> <p>We want to allocate students to hostel rooms where each student likes some rooms more than the rest. If each student submits a list of rooms according to his/her liking, how do we allocate the rooms? Popular matchings gives us one such way.</p>
12:00 - 13:00	<p><b>Using computers to probe material properties</b> <u>Satyavani Vemparala</u>, IMSc</p> <p>Vani will explain how large scale computation can be used to probe material properties in accessible to experiments. In particular, she will focus on polymers and water.</p>
13:00 - 14:00	<i>Lunch</i>
14:00 - 15:00	<p><b>Demonstrations and Activites</b> <i>IMSc members</i></p>
15:00 - 15:30	<i>Tea / Juice / Snacks</i>
15:30 - 16:00	<p><b>Hidden figures of Indian Science</b> <u>Nandita Jayaraj</u>, TLoS</p> <p>A science journalist gives you the breaking news. An interactive session to WOW you with some some of the coolest things Indian scientists are doing in their laboratories today.</p>
16:00 - 18:00	<p><b>Moulik Berkana</b>, American Consulate, Chennai <b>Movie: Hidden Figures (2016)</b> The story of a team of female African-American mathematicians who served a vital role in NASA during the early years of the U.S. space program.</p>
18:00 - 18:30	<i>Snacks</i>

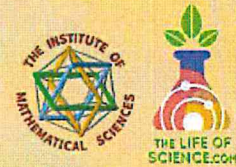


Sneadha Nayak for TL05

## INDIAN WOMEN IN SCIENCE

### UMA RAMAKRISHNAN

Uma is a conservationist who tracks the populations and survival of tigers. She is known for estimating the genetic diversity and numbers of tigers in our national parks.



### FEBRUARY 2018

S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28										



TL05

## INDIAN WOMEN IN SCIENCE

### D INDUMATHI

Indumathi is a particle physicist who studies neutrinos, the most abundant particles in the universe. She is making important contributions towards India's vision to house its very own neutrino observatory (INO).



### MARCH 2018

S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31							





# INDIAN WOMEN IN SCIENCE



Inlaks Science Foundation

## GAGANDEEP KANG

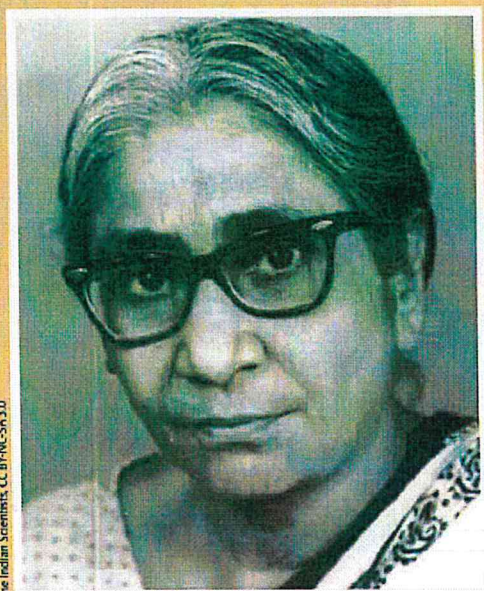
Gagandeep is world-renowned for her research on rotavirus, a virus that contributes to a large proportion of India's infant mortality arising from childhood diarrhoea. She is currently involved in the development of vaccines and in health policy.



### AUGUST 2018

S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31								

# INDIAN WOMEN IN SCIENCE



The Indian Scientists, CC BY-NC-SA 3.0

## ASIMA CHATTERJEE (1917-2006)

Asima discovered several plant-based medicines with anti-malarial, anti-epileptic and anti-cancer properties. Last year, a Google Doodle celebrated her 100th birth anniversary.



### SEPTEMBER 2018

S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30						







