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



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

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

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 Are there other sizes of 3 square tiles that arrange the tiles with the same property? neighbourhood. Are there other ways to each congruent square has an identical can be arranged similarly?

Doris Schattschneider, is a mathematicia who studied these and other tilings to make significant contributions to the field of

International Day of Girls and Women in Science 2019 Schedule

	11th February 2019
09:00 - 09:30	Registration
09:30 - 10:30	Let there be light! Shanti Bhattacharya, IITM
	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.
10:30 - 11:00	Tea / Juice / Snacks
11:00 - 12:00	Popular matchings Prajakta Nimbhorkar, CMI
	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.
12:00 - 13:00	Using computers to probe material properties <u>Satyavani Vemparala</u> , IMSc
	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.
13:00 - 14:00	Lunch
14:00 - 15:00	Demonstrations and Activites IMSc members
15:00 - 15:30	Tea / Juice / Snacks
15:30 - 16:00	Hidden figures of Indian Science Nandita Jayaraj, TLoS
	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.
16:00 - 18:00	Moulik Berkana, American Counsulate, Chennai Movie: Hidden Figures (2016) 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.
18:00 - 18:30	Snacks



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.



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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

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SANDHYA KOUSHIKA

Sandhya is a neurobiologist who uses roundworms (*C. elegans*) to study how transport of material in nerve cells is aided by molecular motors.





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INDIAN WOMEN IN SCIENCE

KANEENIKA SINHA

Kaneenika is a mathematician working in the area of analytic number theory and arithmetic geometry. She is also an active math communicator and popular blogger.





MAY 2018

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RANI SIROMONEY

Rani is a theoretical computer scientist with five decades of experience in the field of formal languages and automata theory. She spent most of her professional life in Madras Christian College, Chennai.



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INDIAN WOMEN IN SCIENCE

NANDINI CHATTERJEE SINGH

Nandini is a cognitive neuroscientist who studies what goes on in the human brain especially in association with music, multilingualism, autism and learning disorders.





JULY 2018

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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.

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INDIAN WOMEN IN SCIENCE

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

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SUJATHA RAMDORAI

Sujatha is a mathematician famous for her work on the Iwasawa theory. She is also an educator with a passion for making quality math education accessible to all.



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INDIAN WOMEN IN SCIENCE

RAMA GOVINDARAJAN

Rama is a physicist-engineer in the field of fluid mechanics. She is using her skills to model a very unique phenomenon that directly affects more than a billion people—the Indian monsoon.





NOVEMBER 2018

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JANAKI AMMAL (1897-1984)

Janaki Ammal, a world-renowned botanist and cytogeneticist, was one of the first women scientists of modern India. She is famous for her contributions to the Botanical Survey of India and for creating hybrid varieties of sugarcane and brinjal.

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INDIAN WOMEN IN SCIENCE

SANGHAMITRA BANDYOPADHYAY

Sanghamitra is a computer scientist whose algorithms are useful to scientists across disciplines, especially to those dealing with large data sets.



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KRISHNAVENI V GHATTU

Krishnaveni is an epidemiologist who studies the effect of stress on young adults and early origins of adult non-communicable diseases.





FEBRUARY 2019

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