

EDGE of SPACE

Monthly Digital Newsletter

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From the News

China is planning to send the first human to Mars

BY ANANYA AGGARWAL

Humans at Mars – isn't it fascinating?

At a recent space conference in Russia, Wang Xiaojun (the head of the state-owned china academy of launch vehicle technology) said, "In over a decade, China is planning to send its first crewed mission to Mars".

This mission is a part of a long-term plan to build a permanent inhabitant base on the red planet and extract its resources. By this, China will be the first country to do this and is being a competitor to NASA, SpaceX, and other prominent organizations.



READ MORE AT: [China is planning to send first humans to Mars](#)

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Blog of the Month

MASS: An Answer to What is this?

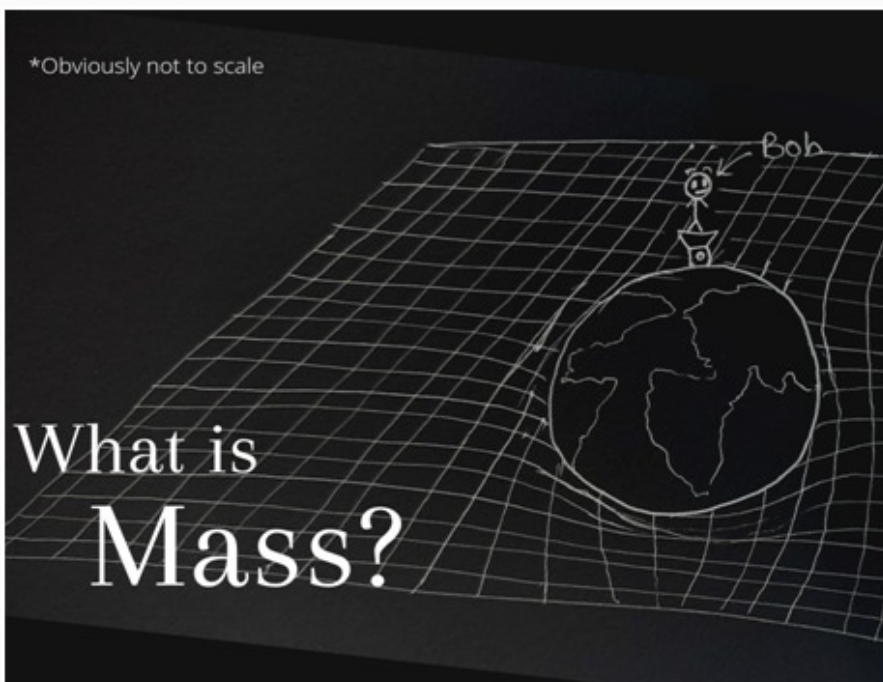
BY DAKSHESH GUSAIN

So your weight-conscious friend says that they're gaining a lot of weight which in turn triggers the physicist in you and you jump in and say -

"just so you know, it's mass, you've gained a lot of mass, gaining weight is scientifically incorrect in your context" and they hit you with an annoyed look and they never speak to you again.

Yes, happened to me too. Why else do you think I'd be here, using physics to make friends.

Anyway, my point is when you say the phrase, "it is MASS", do you realise the amount of mass the word 'MASS' contains? Maybe after this read, you will.



READ MORE AT: [MASS: An Answer to What is this?](#)

Einstein's general theory of relativity tells us that mass and energy (since now we know mass is just confined energy) actually bend the space-time fabric and light following the geodesic along that curved space-time is what we call 'warping' space-time and in general terms, the bending of light that we observe.

FEATURED BLOGS OF THE MONTH

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THE NEWS BULLETIN

1

A dense cluster of black holes in Palomar 5 -> A globular cluster

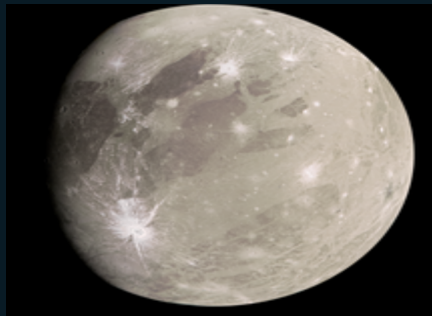
In a major discovery, astronomers found a dense cluster of over 100 stellar-mass black holes hiding within a globular cluster named "Palomar 5" that lies 65,000 light-years away from us in the direction of the constellation Serpens. That's huge! As they are globular cluster, they are very dense. Its something very strange discovery!



2

Water vapours found in Ganymede's atmosphere:

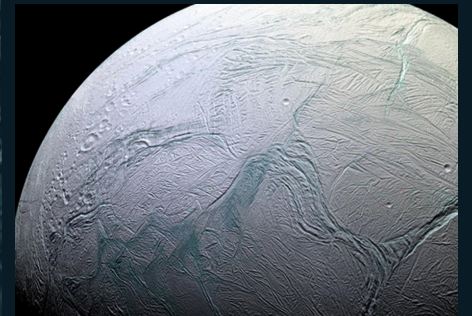
This is one of the most exciting discovery. Researchers have detected water vapour in the atmosphere of the one of the Galileon moon Ganymede. Previous studies had predicted that Ganymede contains more water than all of the Earth's oceans. This made Ganymede a potential target in our hunt for extraterrestrial life



3

Enceladus, a new adventure for extraterrestrial life?

Enceladus is a fascinating place to search extraterrestrial life. And in a major turn around, astronomers have witnessed mysterious plumes ejected by Enceladus into the deep space that perhaps hints at signs of life on Saturn's icy moon. Cassini found geysers of liquid water spraying from fractures in the icy shell at the moon's south pole.



4

Jovian's 40 years mystery solved! Hurrah!

Jupiter has the most powerful aurora in the solar system. And it is the only planet thought to emit auroras in X-rays. Though it was discovered 4 decades back, it wasn't sure about how these auroras are being generated. So by far this is the most elegant discovery.



5

A moon forming disc around one of the exoplanet!

For the very first time, astronomers dotted a moon-forming disc around PDS 70c, an alien world lying only 370 light-years away from us. Planets usually form in the dusty discs surrounding young stars. The objects known as PDS 70b and PDS 70c, the two planets, which were originally discovered by the Very Large Telescope. An exciting discovery as far as our hunt for our curiosity continues.



6

Kepler observes free floating planets!

Astronomers have found a fascinating evidence for a population of planets also called as "free-floating" planets roaming in deep space in a recent breakthrough. Well, these are the planets which are not bound to their host star and are wandering out there not knowing to which star family they belong to. During the two-month campaign, Kepler analyzed millions of stars near the center of the Milky Way.



All the news and images are derived from internet sources

FROM SSERD

THE JUNIOR SPACE SCIENTIST PROGRAM

As a way to inspire and motivate the coming generation SSERD has organized a program its first missions is to cover the shining spirit amongst the students. They are having a tremendously curious about such scintillating topics.

Considering all advanced technologies and techniques that are used in the 21st century, the diving into competitive and conducive groups was at the first place. There were 6 bebies and everyone have their own name, for instance, Project Vimana , Exominds , Marselene, Hyperion, Delta Cosmos, and Valerie. Their common aim was to invest their thought into better ideologies about outer space.

Utterly, students are eager for knowledge and need the right guidance and counsels; consequently, our professional leaders did that perfectly throughout slew of valuable tips, such as, digging for the information and their sources, focusing on references, collaborating and analytical skills, figuring out how to face problems, presenting and writing skills, and web designing. After such an iconic training they get enough self-esteem and conspicuous portrait about the field of space.

Eventually, each group got to present a project and keeping in mind all the skills and abilities they gain throughout the program. Succinctly, it was done!! The groups amazed us and all space enthusiasts with their bombastic work. And always in SSERD we will guide and open horizons for such marvelous brains to collaborate in space future making. Stay Tuned, and never forget that The Sky is The Limit

[CLICK HERE TO SEE THEIR PRESENTATIONS](#)



INTERNSHIP AND PROJECT DIVISION

The goal of this internship is to help students to work on space-related projects! You will receive the best of training and guidance from SSERD as well as other pioneers in the field all to your home and completely online. You will also earn an e-certificate after the completion of the internship.

TOPICS:

1. Propulsion System
2. Astronomy and Astrophysics
3. Satellites
4. Space Settlement
5. Space Mission Design
6. Space Robotics
7. SSERD Operations

BENEFITS:

1. Training
2. SSERD official membership
3. Career guidance
4. Access to professionals
5. Scholarships will be provided for those who can't afford

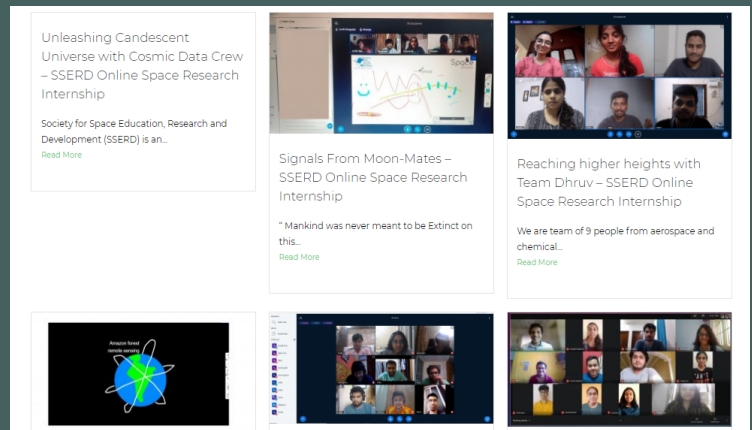
TRAINING ON:

1. How to do the research
2. How to look for the correct information
3. How to make the best resume
4. Selection of universities
5. Project Specific Trainings

Application is open for any students pursuing undergraduate and postgraduate programs.

Application Process:

1. Fill the application form
2. Wait for interview notification
3. Issue of topics
4. Commencement of Internship



Visit [SSERD Internships](#) to know more

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