

Monthly Newsletter September 2023

THE PARAM SCIENCE EXPERIENCE



*This picture was generated by Param with the help of AI

www.paraminnovation.org/newsletter

HELLO WORLD!

Celebrating the **First Anniversary of Param's Monthly Newsletter!**

It's been an exciting 12 months of knowledge, growing, documenting, and, most importantly, non-stop fun!

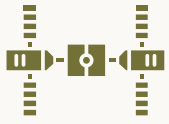
We are grateful to our readers and donors for their continuous support and contributions towards building Param.

Here's a run through of **September!**



VIGYAN VANI SEPTEMBER

NEWS FROM AROUND THE WORLD



Aditya-L1, India's first mission to study the solar atmosphere, was launched



M.S Swaminathan, The Father of Indian Green Revolution, passes away at the age of 98



IndianOil unveils India's first hydrogen-run bus that exhausts just water!



James Webb Telescope finds carbon source on Jupiter's Moon Europa, sparking hopes of habitability



Chandrayaan-3's Vikram Lander and Pragyan Rover Remain Dormant Post Lunar Sunrise; Revival Hopes Dim

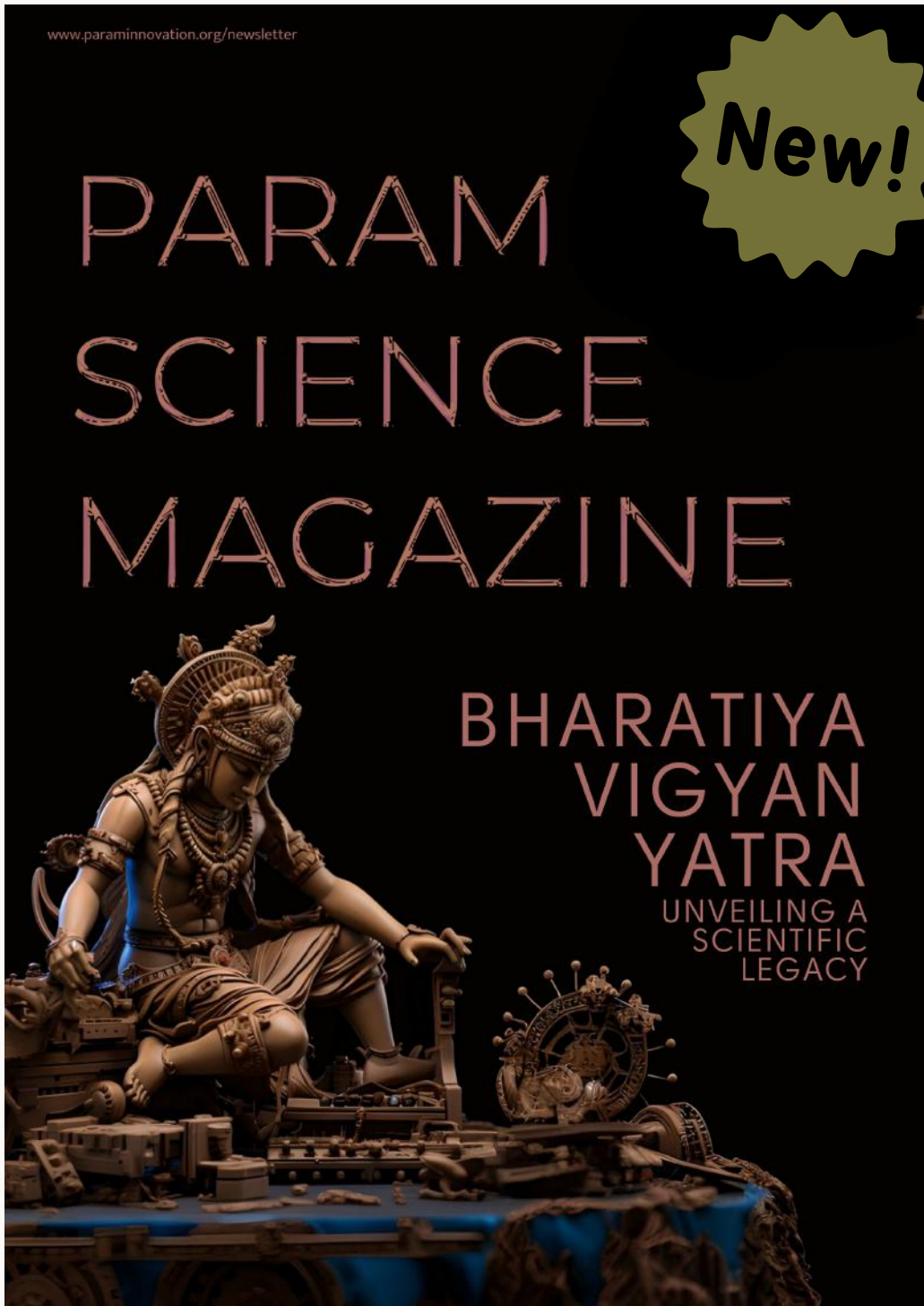


OpenAI the Artificial Intelligence (AI) firm, announced several updates to ChatGPT including **web browsing, voice and image capabilities and finally Real-time web access!**

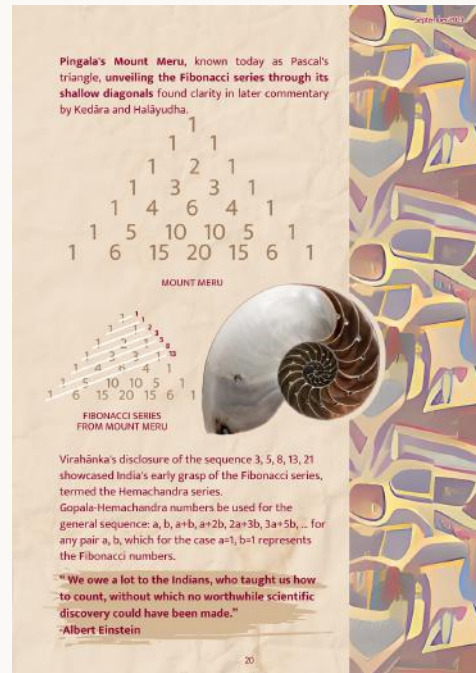
WHAT'S NEW?

“Join us on this remarkable odyssey, where the brilliance of ancient Bharatiya science radiates, illuminating our path towards discovery and understanding.”

September Magazine September Magazine September Magazine



September Magazine September Magazine September Magazine



Get ready to embark on a journey through the ages as we blend the ancient wisdom of Bharat with modern science and tech in our **September Science Magazine.**

This month, we're featuring the incredible **"Bhartiya Vigyan Yatra"**

A WORLD WHERE ALL CAN COMMUNICATE: INTERNATIONAL DAY OF SIGN LANGUAGES

September 23rd: A Day to Celebrate Sign Languages

The world unites in celebration of the Languages of Signs, acknowledging the significance of sign language in our global society



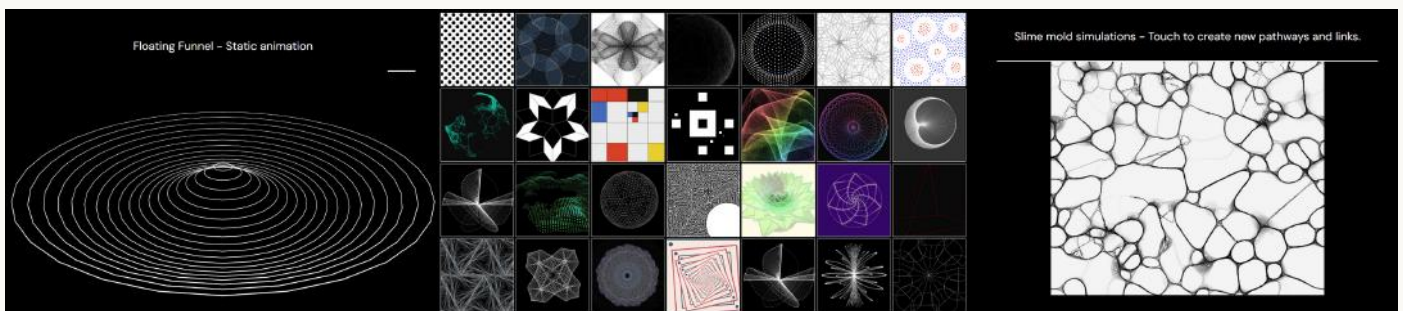
For more fascinating content like this, check out our [website](http://www.paraminnovation.org/newsletter)

MATHEMARTICA?

Discover the fascinating world of math and art with **Mathemartica!**

Experience the joy of mathematics and art coming together in one place. Head to [Mathemartica](#), where you can engage in **endless mathematical fun**

These innovative applications are based on **math equations** that can produce **beautiful works of art** like these.



& LASERS!

Explore the **world of lasers** in our latest **3D motion graphic video**.

Check out our new video on lasers, and discover more interesting facts on similar topics by following us at [@paraminnovation](#).



THE MAGIC ANGLE!



The Shadow Ambigram Exhibit

A fascinating display that showcases **unique shadows** of the same object from different sides as you turn the knob

The exhibit features **a duck, an elephant, and a mouse**, each of which can be seen from different angles of the same object

This exciting exhibit teaches us about **light's power in shaping objects** by their shadows. It also reminds us of the existence of **multiple perspectives**.

IRON MEN Assembled!

Introducing Param's
In-House Welding Team -
The Iron Men!

The team is currently
focused on their first
secret project, and we're
all eager to witness the
innovative creations they
will craft!

Here's a sneak peak>>

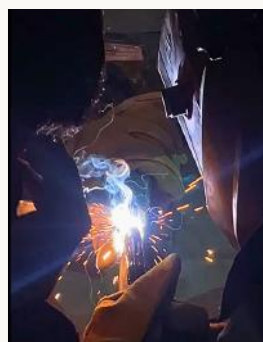


EXHIBIT PROFILE

Exoskeleton By Skeletonics!

First crafted by Japanese geniuses, this passive exoskeleton suit is an absolute game-changer. Unlike other suits, there are **no heavy motors involved**

Instead, it's a user-powered system that amps up the user's movements, creating an almost **bone-like appearance**



Have you ever wondered what wearing Iron Man's suit would feel like? Very soon, you can **experience feeling like Iron Man at Param!**

With the exoskeleton, you can walk and run faster, jump higher, lift heavier, and even **play a football game**



So, check this out!

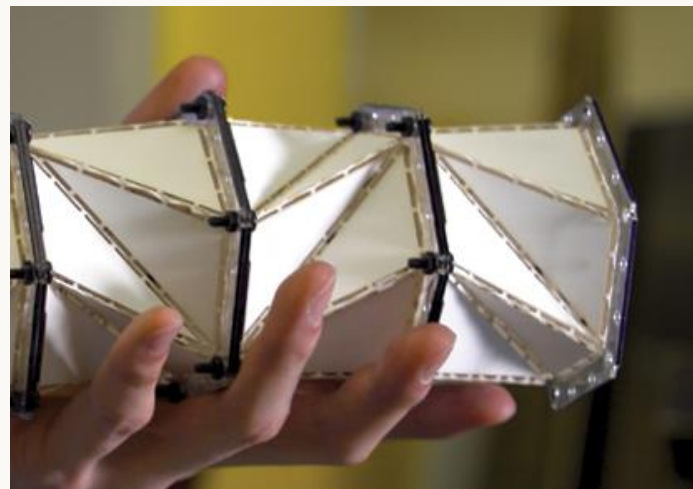
Nature has been rocking the exoskeleton trend for ages, with insects and crustaceans sporting this cool feature for millions of years

Feature Story ORIGAMI IN AEROSPACE ENGINEERING

Did you know that Aerospace Engineers often use the principles of Origami - the ancient art of paper folding, to create lightweight, strong, and versatile structures that can be used in spacecrafts, rockets, and other aerospace vehicles!

Origami-inspired structures are used to create solar sails, which collect energy from the sun and power spacecrafts. Origami is also used to create deployable structures, which fold up and are stored compactly until needed. These structures can be used to create everything from antennas to robotic arms

As aerospace engineering continues to evolve, origami is likely to play an increasingly important role in the development of new and innovative technologies



So next time you're looking for a creative way to solve a problem, remember the ancient art of origami. You never know where it might lead you

ASTRONOMY COLUMN

Carl Sagan said “Every newspaper has an astrology column but never an Astronomy column”

So we added one!

October is a great month to stargaze in India. The nights are long and the skies are clear, providing perfect conditions for viewing the stars and planets.

One of the most notable astronomical events taking place in October 2023 is the Dussehra Purnima. This full moon occurs on October 16th and is considered to be very auspicious for some.

Here are a few places where you can get the viewing experience in South India

- The Jawaharlal Nehru Planetarium, Bengaluru (KA)
- The Bannerghatta National Park, Bengaluru (KA)
- The Ooty Planetarium, Ooty (TN)
- The Kodaikanal Observatory, Kodai (TN)

And very soon at **Param Science Experience Centre!**



The few constellations that are visible in October include

- Orion's belt
- Mimosa and Gacrux on the Southern Cross
- Bellatrix and Nunki
- The Big Dipper and the Little Dipper

Until next month!

FROM OUR TEAM



“

SUPRIYA says...

For me, Param has become a place of creativity, learning and growth over the last two months. No two days are the same here! Each day there is something new to discover, explore and experiment with. It's not a conventional workplace and that is what makes the work very enjoyable. I love that I get to work and collaborate with such a diverse group of interdisciplinary people at Param.



”

UTKARSH says...

“

It is an ever learning, ever-growing and highly full filling experience working at Param. The energy, enthusiasm & passion to 'Change the course of humanity to the highest of existence', through our Science Experience Centre is highly contagious. I'm so glad of using my storytelling to create awesome science experiences that serves this mission. Get ready to reinvent your reality here! 🌟💖



”

P.S. Utkarsh wanted this picture with his eyes closed as it represents his blissful state of mind

PARAM'S OUTREACH

Jayanagar now recognizes **Param** as the
"FUN SCIENCE PEOPLE"



2 Weeks

7 Hours

9 Paraminions

30 Events

4000 People!



If you spot our Science Magazines in autos around Bengaluru, make sure to send us a picture on Instagram [@paraminnovation](https://www.instagram.com/paraminnovation)



Our Marketing Team visited the
JANASEVA VIDYA KENDRA
 at Channenahalli



What's more?

We conducted our first ever **Weekly MeetUp**, where you can come share your opinion on various topics in Science.

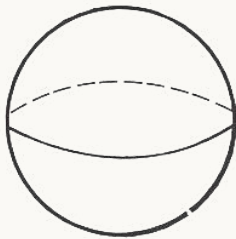
Find our upcoming MeetUps [here](#)!

THOUGHT POT

This question was asked during the
International Space Agency's selection process!

Can you outsmart an Astronaut?

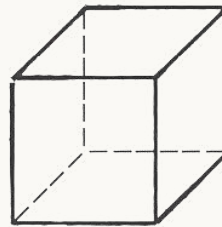
A line runs through the middle of a 3-D shape such that it is equidistant from all surfaces. What is the shape?



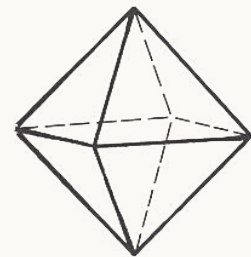
a) a sphere



b) a cylinder
(with no ends)



c) a cube



d) an octahedron

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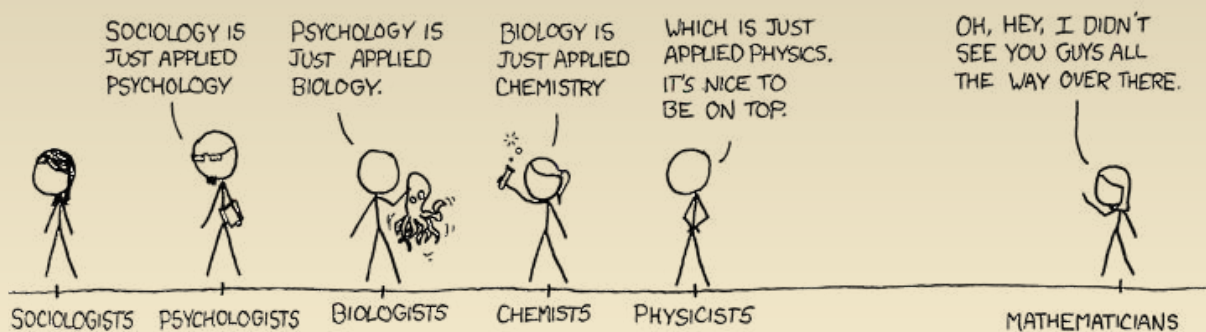
**"I have no special talents. I am only passionately curious."**

**- Albert Einstein**

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FIELDS ARRANGED BY PURITY

→
MORE PURE



COLLABORATE WITH US

Our **In-City Gallery** is coming up soon!
We're calling out to all Innovative Organisations
and Start-Ups for donations!
Contribute to our city's first ever Science Gallery

Collaborate with us at
collaboration@paraminnovation.org



It's showtime for your **Passion Project at ParSEC!**
Got an amazing concept, prototype, or just a spark of an idea?
Send it our way and get a helping hand every step of the way

Write to **design@paraminnovation.org** with
your thoughts!

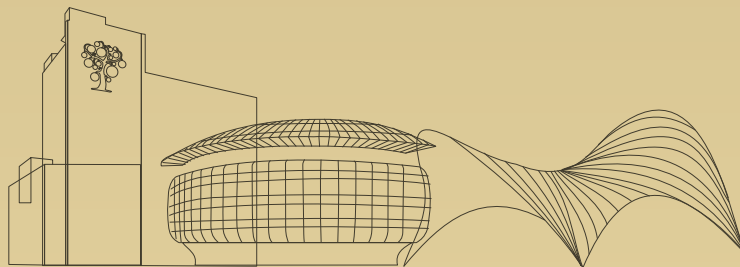


Upcoming Science Park

Bengaluru 2024

PARAM NEWSLETTERS

The Param Monthly Newsletter provides updates on the latest exhibits and experiences at The Param Science Experience Centre (ParSEC) for the summer of 2024. Stay informed about ancient and modern science and get exclusive updates through monthly newsletters.



90 Th Thorium	-1 e ⁻ Electron						
15 P Phosphorus	18 Ar Argon	95 Am Americium					
21 Sc Scandium	I Iodine	𐌶𐍅𐌹𐍃𐍄 𐌶𐍅𐌹𐍃𐍄	58 Ce Cerium				
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10 Ne Neon	74 W Tungsten	16 S Sulfur	1 I Lupion	-1 e ⁻ Electron	𐍄𐌹𐍃𐍄 𐍄𐌹𐍃𐍄	52 Te Tellurium	R Roentgen