

GYRA NEWSLETTER

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January Edition



Editorial

Power to Change

Midway Atoll is a tiny island 2000 miles away from the United States in the heart of the Pacific Ocean. It became the source of a great message to the world when Chris Jordan, a wildlife photographer, published a heart-blowing photograph of a dead albatross chick in September 2009. The chick was dead from eating a lot of small plastic waste floating in the ocean. Jordan's photo captured the world's attention, and everyone who saw it realized one thing: thousands of little chicks die because of them. Many researchers were inspired to do extensive research on plastic waste and ocean pollution. Around 175 countries are joining to sign the Global Plastic Treaty in 2024, reducing plastic production and pollution.

Every research begins by seeing the problem around you. Every investigation then leads to truth that has the power to change the world. GYRA invites you to open your eyes to see the issues around you. Let the power of research change the world.

Team GYRA

New GYRA Schools

1. Singapore - Neighbourhood Units
2. Rajagiri Seashore CMI - Vypin, Cochin.
3. Rajagiri Public School - Kalamassery
4. Rogationist Academy - Aluva

Virtual Symposium

"Unlock a world of knowledge and innovation—sign up now for our virtual symposium and join thought scientists shaping the future!"

For those interested in hosting the Virtual Symposium in April & May, please drop an email to thinkgyra@gmail.com

Curious Facts

Where to look for life in our solar system?

On Christmas day of 2021, The James Webb Space Telescope (JWST) was launched by NASA. It is a space telescope designed to conduct infrared astronomy. Its high-resolution and high-sensitivity instruments allow it to view objects too old, distant, or faint for the Hubble Space Telescope.

On JWST, thermometers and prisms have been replaced with dozens of filters and intricate mechanisms. One tool has a quarter of a million tiny shutters that can be used to gather light from 100 individual objects simultaneously. The spectra that it creates reveal granular details — chemical composition, temperature and mass — of individual stars, planets and galaxies. Recently, Webb trained its instruments on Saturn and its moon Enceladus.

Saturn, like Earth, experiences seasons. But because of its wide orbit, these seasons each last about seven and a half years.

JWST also observed Enceladus. Scientists think it's one of our best hopes of finding life in our solar system.

Using the modern equivalent of Herschel's prism technique, scientists analyzed a giant fountain of water vapor gushing from the moon. "We were shocked to see water in every single pixel of the data," says Geronimo Villanueva, lead author of the study. Webb was also able to map the whole feature: The water vapor spanned over 6,000 miles.

Team GYRA

Upcoming Events Global Science Festival 2024

Global Science Festival Kerala (GSFK) 2024 is Asia's largest thematically curated science exhibition. It is a unique platform that aims to bring together scientists, artists, students and science enthusiasts worldwide to celebrate science.

To Know More: <https://www.gsfk.org/>

International Research Conference For Children 2024



In collaboration with the Global Young Researchers' Academy (GYRA), STEM4Girls, and Assisi Vidyaniketan Public School in Kakkanad, Kochi, an International Research Conference for Children-2024 (IRCC-2024) has been organized at Assisi Vidyaniketan Public School from 12th to 14th July 2024 in Ernakulam, Kerala, India.

The conference serves as an international platform, bringing together student researchers at the school level, teachers, parents, administrators, and stakeholders worldwide.

To Know More: <https://ircc.world>

Welcome onboard, Dr. Shaiju Nazeer!



Ladies and gentlemen hold on to your seats because we have a new superstar joining our team! We are ecstatic to introduce Dr. Shaiju Nazeer, a scientist from the Indian Institute of Space Technology to the GYRA family. Dr. Nazeer has his PhD in physics and did his post-doctoral research in the USA. He is the winner of the INSPIRE RE-entry Fellowship by the Govt of India and he joins as a faculty at IIST. He is a publication machine with more than 100 peer-reviewed articles in internationally renowned journals.