



# St Berchmans College

Founded 1922

**AUTONOMOUS**

College with Potential for Excellence | Reaccredited by NAAC with A Grade

CHANGANASSERY, KERALA



SCIENCE

ARTS

TECHNOLOGY

SPORTS

# BERCHLY

## E WEEKLY

PREPARED BY

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

COORDINATOR: SHEHITHA SALIM (ASSISTANT PROFESSOR, DLISc)

# CONTENTS



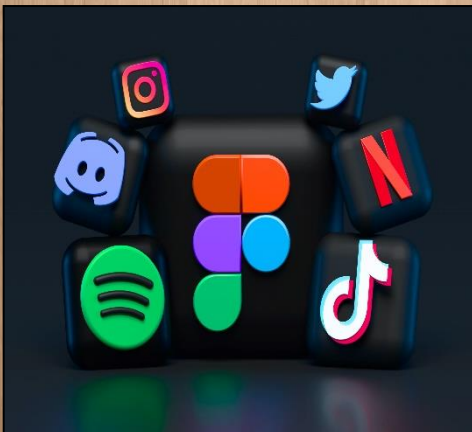
SCIENCE

3



ARTS

5



TECHNOLOGY

7



SPORTS

8

*Photo by ThisisEngineering RAEng on Unsplash.*

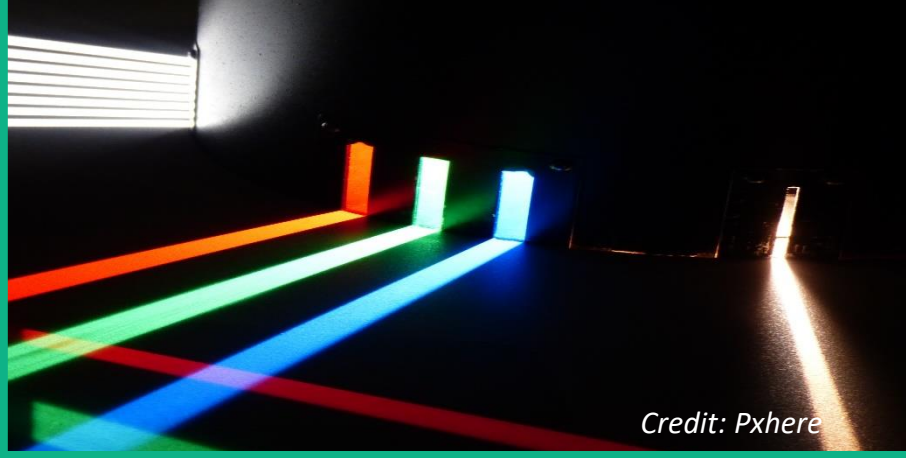
*Photo by Markus Spiske on Unsplash.*

*Photo by Alexander Shatov on Unsplash.*

*Photo by Randy Fath on Unsplash.*



# SCIENCE

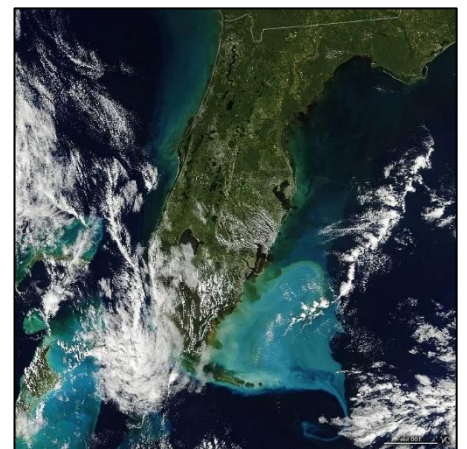


*Credit: Pxhere*

## Gorgeous watercolor seas in the wake of hurricane Ian.

*(October 9, 2022)*

Hurricane Ian barreled into Florida's southwestern coast on September 28, 2022, as a powerful category-4 storm with sustained winds of about 150 miles (240 kilometers) per hour. However, wind was not the only destructive component of the powerful storm; water was also a major factor, in the form of a catastrophic storm surge, relentless downpours, and intense flooding. The redistribution of water is clearly evident in these natural-color satellite images, which show colorful swirls of sediment that the storm stirred up in Florida's coastal waters..



*Credit: NASA*

Read more at:

<https://scitechdaily.com/gorgeous-watercolor-seas-in-the-wake-of-hurricane-ian/>

## Award-winning photo captures 'zombie' fungus erupting from a fly.

*(October 11, 2022)*



*Credit: ROBERTO GARCÍA-ROA*

Sometimes a photo is literally a matter of life, death — and zombies. This haunting image won the 2022 BMC Ecology and Evolution photo competition. It shows the “fruiting bodies” of a parasitic fungus. They’ve emerged from the lifeless body of an infected fly in the Peruvian rainforest. The fungus-infested fly was one of many images submitted to the contest from all over the world. The pictures aimed to showcase the beauty of the natural world and the challenges it faces. The journal revealed the winners August 18.

Read more at:

<https://www.snexplores.org/article/zombie-fungus-body-fly-photo-contest>

## ***Science's no-fee public-access policy will take effect in 2023.***

*(October 11, 2022)*

The publisher of the prestigious journal *Science* will soon allow the authors of its research papers to make public an almost-final version of their manuscript in a repository of their choice immediately on publication, without paying any fees. This approach differs from that taken by the publishers of similarly high-impact journals Cell and Nature, which charge most authors fees called article processing charges (APCs) to make the final, published versions of their articles open access.

Read more at:

<https://www.nature.com/articles/d41586-022-03128-2>

## **NASA Confirms DART Mission Impact Changed Asteroid's Motion in Space.**

*(October 12, 2022)*

Analysis of data obtained over the past two weeks by NASA's Double Asteroid Redirection Test (DART) investigation team shows the spacecraft's kinetic impact with its target asteroid, Dimorphos, successfully altered the asteroid's orbit. This marks humanity's first time purposely changing the motion of a celestial object and the first full-scale demonstration of asteroid deflection technology. The investigation team is still acquiring data with ground-based observatories around the world.



*Credit: NASA*

Read more at:

<https://www.sciencedaily.com/releases/2022/10/221011234329.htm>

# ARTS



## Sacred Easter Island statues suffer 'irreparable damage' after volcano fire.

*(October 10, 2022)*

Easter Island's towering stone heads and other archaeological elements have been charred by a fire, according to local Indigenous and Chilean authorities. The fire -- caused by the nearby Rano Raraku volcano -- started Monday and razed more than 100 hectares of the island, damaging its famous stone-carved statues known as 'Moai' which were created by a Polynesian tribe over 500 years ago, native officials reported.



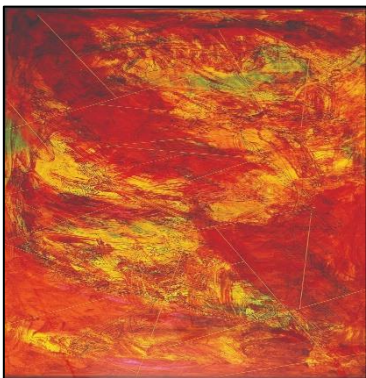
*Credit: Getty Images*

Read more at:

<https://edition.cnn.com/travel/article/easter-island-moai-damage-volcano-intl-hnk/index.html>

## When pandemic opened a window of new perspectives for artist Kaladharan.

*(October 11, 2022)*



*Credit: H. VIBHU*

A solo show, Orthic 2020-22, by veteran artist and one of India's leading abstractionists T. Kaladharan is under way at Nanappa Art Gallery in the city. The exhibition features works done during the pandemic. While the work of many artists reflects the shadow of COVID-19, Kaladharan's art bucks the trend and does not reveal the trauma the world went through. He was the hopeful artist who knew that this too would pass. Deep exuberant colours and a batik style that have come to be the artist's trademark dominate this painting.



Read more at:

<https://www.thehindu.com/entertainment/art/when-pandemic-opened-a-window-of-new-perspectives-for-artist-kaladharan/article65980343.ece>

## **Robot says AI is 'threat and opportunity' to artists during Lords address.**

*(October 11, 2022)*



*Credit: Aidan Meller*

A robot has addressed the House of Lords for the first time, telling a committee that artificial intelligence can be a 'threat and opportunity' to artists. The robot, named Ai-Da and devised in Oxford by Aidan Meller, gave evidence to the communications and digital committee as part of an inquiry into the future of the arts, design, fashion and music industries and how AI might affect them. With rapidly developing AI, growing accessibility to super computers and machine learning on the rise, Ai-Da – named after the computing pioneer Ada Lovelace – was created as a 'comment and critique' on rapid technological change.

Read more at:

<https://www.theguardian.com/technology/video/2022/oct/11/robot-says-ai-is-threat-opportunity-artists-lords-address-video>

## **Archaeologists discover mural of Aztec god of alcohol in Mexican convent.**

*(October 12, 2022)*

A pre-Columbian wall painting discovered in a convent in Tepotzlán could shed light on the relationship between Mexico's Indigenous inhabitants and the Catholic church, which sought to control cultural expression after the Spanish conquest in the 16th century. A pre-Columbian wall painting discovered in a convent in Tepotzlán could shed light on the relationship between Mexico's Indigenous inhabitants and the Catholic church, which sought to control cultural expression after the Spanish conquest in the 16th century.

Read more at:

<https://www.theartnewspaper.com/2022/10/12/archaeologists-discover-pre-columbian-mural-in-mexican-convent>

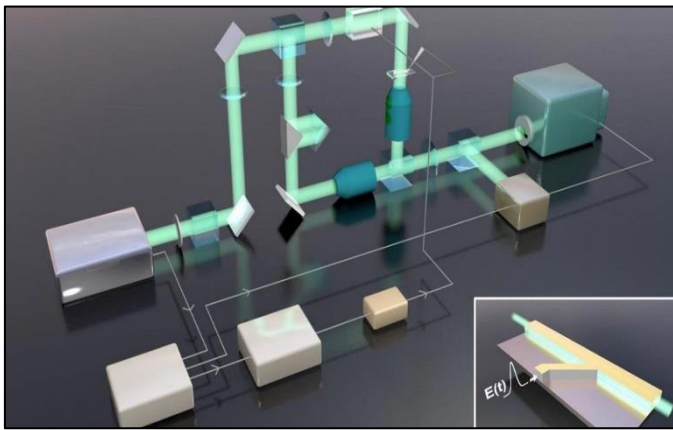
# TECHNOLOGY



Credit: Unsplash

## Caltech's new ultrafast camera captures signals traveling through nerve cells.

*(October 9, 2022)*



Credit: Caltech

Scientists at Caltech have just developed a new ultrafast camera that can record footage of the nerve signals in our body. Not only that, but the camera can also capture video of other incredibly fast phenomena, such as the propagation of electromagnetic pulses in electronics. Known as differentially enhanced compressed ultrafast photography (Diff-CUP), the camera technology was developed in the lab of Lihong Wang.

Read more at:

<https://scitechdaily.com/caltechs-new-ultrafast-camera-captures-signals-traveling-through-nerve-cells/>

## Govt nudges Apple, Samsung and others to release 5G updates.

*(October 11, 2022)*

India's government will push Apple, Samsung and other mobile phone manufacturers to prioritise rolling out software upgrades to support 5G in the country, amid concerns that many of their models are not ready for the recently launched high-speed service. Prime Minister Narendra Modi launched 5G services on Oct. 1 amid much fanfare, with leading telecom operator Reliance Jio saying it would make the service available in four cities and rival Bharti Airtel in eight.

Read more at:

<https://indianexpress.com/article/technology/tech-news-technology/india-to-press-apple-samsung-for-faster-5g-software-upgrades-in-phones-8202483/>

# SPORTS



## India end group league campaign with crushing 9-wicket win over Thailand.

*(October 10, 2022)*



*Credit: Bcci Women / Twitter*

The Indian bowlers hardly broke sweat to dismiss minnows Thailand for a paltry 37 before knocking off the runs in just six overs with nine wickets in hand to top the seven-team group league in the Women's Asia Cup. The emphatic win was India's fifth victory in six games, with the only defeat coming in a low-scoring match against arch-rivals Pakistan. India have 10 points from six games and are expected to be joined by Pakistan, Sri Lanka and one among Thailand and Bangladesh in the semifinals.

Read more at:

<https://indianexpress.com/article/sports/cricket/india-end-group-league-campaign-with-crushing-9-wicket-win-over-thailand-8200519/>

## BWF Rankings: Lakshya Sen rises to career-high eighth.

*(October 11, 2022)*

Commonwealth Games gold medalist shuttler Lakshya Sen climbed one spot to be at a career-high eighth place in the latest BWF men's singles world rankings. The men's doubles pair of MR Arjun and Dhruv Kapila also moved closer to top-20 by jumping two spots to be at a career high 21st in the list. The men's doubles pair of MR Arjun and Dhruv Kapila also moved closer to top-20 by jumping two spots to be at a career high 21st in the list.



*Credit: Indian Express*



Read more at:

<https://indianexpress.com/article/sports/badminton/lakshya-sen-rises-to-career-high-eighth-8202937/>

## **Marco Jansen replaces injured Dwaine Pretorius in South Africa's T20 World Cup squad.**

*(October 12, 2022)*



*Credit: Indian Express*

Left-arm quick Marco Jansen has been included in South Africa's 15-member squad for the upcoming T20 World Cup in Australia. The 22-year-old pacer replaced all-rounder Dwaine Pretorius, who was ruled out of the T20 World Cup after sustaining an injury in his left thumb during the recently concluded T20I series against India. Jansen was initially part of the travelling reserves and will be replaced by pacer Lizaad Williams, Cricket South Africa (CSA) said in a media release.

Read more at:

<https://indianexpress.com/article/sports/cricket/marco-jansen-replaces-injured-dwaine-pretorius-in-south-africas-t20-world-cup-squad-8204628/>

## **Pakistan beat Bangladesh by seven wickets in NZ tri-series.**

*(October 13, 2022)*

Mohammad Rizwan and captain Babar Azam shared a 101-run opening partnership as Pakistan edged Bangladesh by seven wickets with one ball remaining Thursday at the New Zealand Twenty20 cricket tri-series. Babar made 55 and Rizwan went on to 68 to help guide Pakistan past Bangladesh's total of 173-6. Pakistan lost Babar's wicket and another in the 13th over and had to rely on Mohammad Nawaz, who struck an unbeaten 45 from 20 balls to close out the win.

Read more at:

<https://indianexpress.com/article/sports/cricket/pakistan-beats-bangladesh-by-seven-wickets-at-nz-tri-series-8206294/>

***(For private circulation only)***