



St Berchmans College

Founded 1922

AUTONOMOUS

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

CHANGANASSERY, KERALA



SCIENCE



ARTS

TECHNOLOGY

SPORTS



BERCHLY

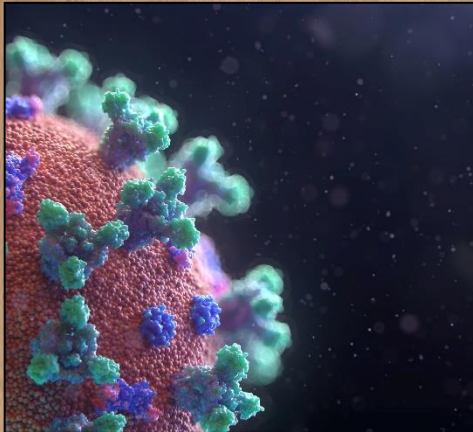
E WEEKLY

PREPARED BY

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

COORDINATOR: SHEHITHA SALIM (ASSISTANT PROFESSOR, DLISc)

CONTENTS



SCIENCE

3



ARTS

5



TECHNOLOGY

8



SPORTS

11

Photo by Fusion Medical Animation on Unsplash.

Photo by Emil Widlund on Unsplash.

Photo by Alexander Shatov on Unsplash.

Photo by Jp Valery on Unsplash.

SCIENCE

NASA finds some asteroids aged early by Sun – “We were surprised”.

(July 24, 2022)

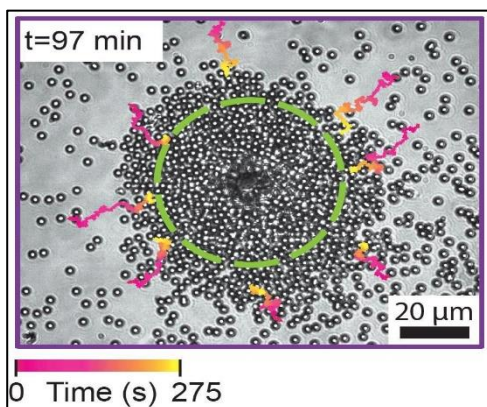
Recently, scientists from NASA’s OSIRIS-REx mission discovered that surface regeneration occurs on asteroids far more quickly than on Earth. By analyzing high-resolution images of rock fractures on asteroid Bennu taken by the OSIRIS-REx spacecraft, the researchers discovered that the Sun’s heat fractures rocks on Bennu in only 10,000 to 100,000 years. With the use of this knowledge, scientists will be able to better predict the time it takes boulders on asteroids like Bennu to fragment into smaller pieces, some of which may eject into space while others may remain on the asteroid’s surface.

Read more at:

<https://scitechdaily.com/nasa-finds-some-asteroids-aged-early-by-sun-we-were-surprised/>

“Life-like” lasers can self-organize, adapt, and cooperate Like living systems.

(July 25, 2022)



Credit: Imperial College London

Recently, scientists have demonstrated the first spontaneously self-organizing laser device, which can reconfigure when conditions change. The innovation will help enable the development of smart photonic materials capable of better-mimicking properties of biological matter, such as responsiveness, adaptation, self-healing, and collective behavior. Researchers from Imperial College London and University College London made their observations in the recent study. Self-organizing lasers could lead to new

materials for sensing, computing, light sources, and displays by mimicking features of living systems.

Read more at:

<https://scitechdaily.com/life-like-lasers-can-self-organize-adapt-and-cooperate-like-living-systems/>

New method allows scientists to remove 95% of nanoplastics.

(July 26, 2022)

The research team at Shinshu University under the direction of Professor Hiroshi Moriwaki of the Department of Applied Biology, Faculty of Textile Science and Technology, proposed employing pectin, a biopolymer to attach to nanoplastics with the aid of iron or aluminum. They discovered that by employing coagulating sedimentation with pectin and iron with filter paper, they were able to remove 95% of the nanoplastics within the first 24 hours.



Credit: SciTechDaily

Read more at:

<https://scitechdaily.com/new-method-allows-scientists-to-remove-95-of-nanoplastics/>

Ancient rocks hold clues to how Earth avoided a Mars-like fate.

(July 28, 2022)

New paleomagnetic research suggests Earth's solid inner core formed 550 million years ago and restored our planet's magnetic field. The scientists, John Tarduno and the William R. Kenan, Jr, determined several key dates in the inner core's history, including a more precise estimate of its age. The research provides new clues about the history and future evolution of Earth and how it became a habitable planet, as well as the evolution of other planets in the solar system.

Read more at:

<https://scitechdaily.com/ancient-rocks-hold-clues-to-how-earth-avoided-a-mars-like-fate/>

ARTS



‘Grant Vishnu Wagh Padmashree award posthumously’.

(July 26, 2022)



Credit: Wikimedia Commons

On the occasion of former deputy speaker Vishnu Wagh’s birth anniversary, the Vishnu Surya Wagh Pratishthan, a trust started in the late poet and politician’s name, has demanded that Wagh be posthumously granted the Padmashree. “Wagh is a multi-talented Goan poet who departed before his time,” said Devidas Amonkar, a member of the Vishnu Surya Wagh Pratishthan, while speaking at Wagh’s birth anniversary programme at Institute Menezes Braganza.

Read more at:

<https://timesofindia.indiatimes.com/city/goa/grant-vishnu-wagh-padmashree-award-posthumously/articleshow/93120636.cms>

Mamallapuram to host Tamil Nadu International Kite Festival for the first time.

(July 28, 2022)

A horse gallops across the sky. A chubby octopus follows suit. Scenes like this, will come alive at the first edition of the Tamil Nadu International Kite Festival, where hundreds of vibrant kites in myriad shapes and sizes will dot the sky. The event will take place at the TTDC Ocean View, spread across 14 acres. This gives the organisers enough space to mark out dedicated zones for the different segments of the event.



Credit: The Hindu

Read more at:

<https://www.thehindu.com/life-and-style/mamallapuram-to-host-tamil-nadu-international-kite-festival-for-the-first-time/article65684727.ece>

Kalakshetra to present International Festival of Music and Dance.

(July 28, 2022)



Credit: First India

As part of Azadi Ka Amrit Mahotsav, an initiative of the Government of India to celebrate and commemorate 75 years of Independence, Kalakshetra Foundation will present 'Amritam Gamaya,' an international festival of music and dance that will bring alive Indian culture. 'Amritam Gamaya' proclaims association with the past and delves into the roots of the rich heritage of India so that succeeding generations can explore, expand and contribute to the cultural and creative economy of our nation.

Read more at:

<https://timesofindia.indiatimes.com/city/chennai/kalakshetra-to-present-international-festival-of-music-and-dance/articleshow/93184326.cms>

Golden tribute to chess Olympiad in Chennai.

(July 26, 2022)

Kuniyamuthur-based goldsmith U M T Raja has made miniature gold chess pieces to celebrate the 44th Chess Olympiad to be held in Chennai from July 28. The 52-year-old man, known for making gold miniature art, made the six chess pieces using 500mg of gold. It took him 24 hours to make the king, queen, rook, bishop, knight and pawn, which can be placed on a sewing needle.



Credit: The Times of India

Read more at:

<https://timesofindia.indiatimes.com/city/coimbatore/golden-tribute-to-chess-olympiad/articleshow/93122242.cms>

Astronaut Buzz Aldrin's Apollo 11 flight jacket fetches \$2.8 million.

(July 27, 2022)



Credit: Reuters

Apollo 11 astronaut Buzz Aldrin's flight jacket, which he wore on the historic mission to the moon in 1969, was sold for about \$2.8 million in New York, auction house Sotheby's said. The jacket front displays NASA's logo and the Apollo 11 mission emblem, which is slightly below Aldrin's name tag.

Read more at:

<https://indianexpress.com/article/technology/science/astronaut-buzz-aldrins-apollo-11-flight-jacket-fetches-2-8-million-8054852/>

Kerala Sahitya Akademi Awards 2021: Rajasree, Vinoy Thomas, Vaisakhan among winners.

(July 27, 2022)



Credit: Mathrubhumi

The Kerala Sahitya Akademi Awards for the year 2021 were announced on Wednesday. Noted writers R. Rajasree and Vinoy Thomas shared the award for the best novel. Anwar Ali won the poetry award for his work 'Mahboob Express', and Deva. Noted writers R. Rajasree and Vinoy Thomas shared the award for the best novel. R. Rajasree received the award for the best novel for her work "Kalyaniyennum Dakshayaniyennum peraya randu sthreekalude katha", published by Mathrubhumi Books. Vinoy Thomas received the same for his work "Putt".

Read more at:

<https://english.mathrubhumi.com/news/kerala/kerala-sahitya-akademi-awards-2021-rajasree-vinoy-thomas-vaisakhan-among-winners-1.7732704>

TECHNOLOGY



MIT scientists discover that computers can understand complex words and concepts.

(July 24, 2022)

Researchers are looking at whether machines with artificial intelligence would be able to mimic human thought processes and comprehend words similarly. Researchers from UCLA, MIT, and the National Institutes of Health have just published a study that answers that question. Researchers are looking at whether machines with artificial intelligence would be able to mimic human thought processes and comprehend words similarly. Researchers from UCLA, MIT, and the National Institutes of Health have just published a study that answers that question.



Representative Image

Read more at:

<https://scitechdaily.com/mit-scientists-discover-that-computers-can-understand-complex-words-and-concepts/>

New technology repairs and regenerates heart cells after a heart attack.

(July 25, 2022)

A “powerful clinical strategy” for treating heart disease may result from the recent discovery. University of Houston researchers have developed a groundbreaking technique that, in mice, not only restores the heart muscle cells after a myocardial infarction (or heart attack) but also helps

the cells regenerate. The innovative method used by the study team delivers mutant transcription factors.

Read more at:

<https://scitechdaily.com/new-technology-repairs-and-regenerates-heart-cells-after-a-heart-attack/>

A mind-reading combat jet for the future.

(July 26, 2022)



Credit: Reuters

Fighter pilots of the 2030s, will have a close relationship with their fighter jet. The Tempest jet is being developed by the UK's BAE Systems, Rolls-Royce, European missiles group, MBDA and Italy's Leonardo. One feature of Tempest jet is the artificial intelligence (AI) tool to assist the human pilot when they are overwhelmed, or under extreme stress. Sensors in the pilot's helmet will monitor brain signals and other medical data. This library of the pilot's unique

characteristics means the on-board AI will be able to step-in and assist if the sensors indicate they may need help.

Read more at:

<https://www.bbc.com/news/business-62289737>

NASA robots work together for the first time on International Space Station.

(July 28, 2022)

For a while now, cube-shaped free-flying robots called Astrobees have helped astronauts with their tasks on board of International Space Station. Now, for the first time ever, two Astrobees have begun working independently, side by side with humans. The Astrobees system consists of three cube-shaped robots, some software and a docking charging station used for recharging. They are about 32 centimetres wide.



Credit: NASA/Shane Kimbrough

The three robots propel themselves using electric fans that allow them to fly through the microgravity environment of the International Space Station.

Read more at:

<https://indianexpress.com/article/technology/science/nasa-robots-work-together-for-the-first-time-on-international-space-station-8056558/>

Kerala to launch e-taxi service from next month as an alternative to corporate online cabs.

(July 28, 2022)

The Kerala government is all set to come up with an alternative to the popular corporate online cab service by launching its own e-taxi service from next month, considered to be the first such initiative by any state government in the country. Named 'Kerala Savari', the online taxi hiring service is being rolled out by the state Labour Department linking the existing auto-taxi networks in the state with an aim to ensure safe and dispute-free travel for the public at affordable rates prevailing in the state.

Read more at:

<https://gadgets360.com/transportation/news/kerala-savari-e-taxi-service-launch-august-17-alternative-corporate-online-cabs-3201845>

BGMI blocked after government order, developer Krafton working with authorities.

(July 29, 2022)



Launched just a few months ago, Krafton's PUBG Mobile alternative in India dubbed Battlegrounds Mobile India (BGMI) was blocked in India suddenly on Thursday evening. The battle royale game is no longer available on the Google Play store or Apple App store. Interestingly, another game developed by Krafton, PUBG New State, is still available in the country. Google said that it is done after "government order".

Read more at:

<https://www.indiatoday.in/technology/news/story/bgmi-blocked-after-government-order-developer-krafton-working-closely-with-authorities-1981262-2022-07-29>

SPORTS



Credit: Unsplash

French cricketer Gustav Mckeon becomes youngest cricketer to score T20I century.

(July 26, 2022)



Gustav Mckeon

At 18 years and 280 days, France opener Gustav McKeon became the first teenager to score a T20I century in men's cricket. McKeon scored a 61-ball 109 against Switzerland in Vantaa. His knock was studded with five fours and nine sixes. It was only the second international match for the youngster. He had scored 76 off 54 balls on his debut against the Czech Republic.

Read more at:

<https://indianexpress.com/article/sports/cricket/frances-gustav-mckeon-becomes-youngest-cricketer-to-score-t20i-century-8051508/>

All eyes on India ahead of the 44th Chess Olympiad.

(July 27, 2022)

Chess Olympiad fever peaks here with Indian teams appearing primed for glory in the 44th edition of the prestigious event that started from Thursday. With powerhouses Russia and China missing, India will be fielding three teams each in the Open and women's sections respectively. India as the host, could field two teams and got to field an additional team in each section as the number of entries were odd. The absence of both Russia and China does weaken the field but provides the other nations an opportunity to go for glory.



Screengrab from Chess Olympiad animation video

Read more at:

<https://indianexpress.com/article/sports/chess/all-eyes-on-india-ahead-of-the-44th-chess-olympiad-8054150/>

India beat Windies by 119 runs in 3rd ODI, takes series 3-0.

(July 28, 2022)

Shubman Gill was stranded on 98 not out by rain Wednesday as India beat the West Indies by 119 runs in the shortened third one-day international to sweep the three-match series. Gill's innings of 98 balls lifted India to 225-3 before its innings ended amid showers after 36 overs at the Queens Park Oval. The West Indies was left to chase 257 in 35 overs at 7.3 runs per over under the Duckworth-Lewis system and fell well short, dismissed for 137 in the 26th over.

Read more at:

<https://indianexpress.com/article/sports/cricket/shubman-gill-india-beat-windies-by-119-runs-in-3rd-odi-takes-series-3-0-8056001/>

English triathlete Alex Yee wins first gold of Commonwealth Games 2022.

(July 29, 2022)



Credit: AFP Photo

England's Alex Yee won the first gold medal of the Commonwealth Games on Friday, taking victory in the men's triathlon in Birmingham. The Olympic silver medallist made up a deficit of 16 seconds following the bike section to overhaul long-time pacesetter Hayden Wilde on the run. New Zealand's Wilde briefly regained the lead but, with a 10-second penalty hanging over him, he patted Yee on the shoulder and waved him on to take the honours on his own.

Read more at:

<https://timesofindia.indiatimes.com/sports/commonwealth-games-2022/english-triathlete-alex-yee-wins-first-gold-of-commonwealth-games-2022/articleshow/93212891.cms>

(For private circulation only)