

the
**SUNDAY
TIMES**

SUNDAY
AUGUST 1, 2021

FUN DAY TIMES



Flying kites in the village

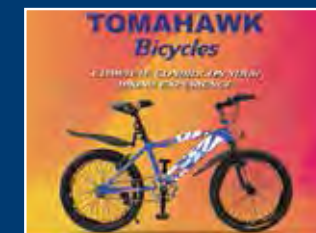
Pic. by Priyanka Samaraweera



SCIENCE
PAGE 2



OLYMPICS
PAGE 3



COMPETITIONS
PAGE 4

follow us on
www.fundaytimes.lk

Bioluminescence

By Cecilia Hewavitharana

Bioluminescence is the production and emission of light by a living organism and is a type of chemiluminescence (chemical reaction that creates light).

How does it happen?

Bioluminescent organisms either produce or absorb (as food or through symbiosis) a substance called luciferin. The light is created as a result of a chemical reaction involving luciferin and either luciferase or photoprotein.

“Luciferin” and “Luciferase” are generic terms for the light-producing substance and the enzyme that catalyses (causes) the reaction, respectively, and depending on the species, different substances can act as luciferins and luciferases.

Bioluminescence is a “cold light”, meaning that it generates very little heat (or thermal radiation).



Glowworms in a cave in New Zealand

bioluminescence for counter-illumination. They emit light from their underside, so any predator looking up will not see their silhouette against the bright background above (created by sunlight or moonlight).

Predation

- ♦ Anglerfish use a protruding dorsal spine with a luminous tip to attract prey.
- ♦ Stoplight loosejaws (a type of dragonfish) emit red light (which is invisible to most fish) to light up their surroundings and search for prey.

Attracting mates

Examples: Fireflies, Caribbean ostracods and syllid fireworms.



Sea fireflies (*Vargula hilgendorfii*) in Japan

Colours underwater

Light travels in waves, with different colours having different wavelengths. Underwater, longer wavelengths (such as red light) cannot travel as far as shorter wavelengths (such as blue and green light). Therefore, many deep-sea animals do not have the ability to see red.

Most of Earth’s bioluminescent organisms are in the ocean – deep in the sea, on the surface and in between. While there are many terrestrial bioluminescent organisms (fireflies, click beetles, many species of fungi), there are only a few known species of freshwater organisms, all belonging to the genus *Latia*, which are snails that release glowing slime when disturbed. A possible reason is that bioluminescence is unlikely to be useful in murky freshwaters.

Why do Organisms Luminesce?

Defence

- ♦ Certain insect larvae (called glowworms) glow to warn predators of their toxicity.
- ♦ The vampire squid shoots bioluminescent mucus and escapes in the confusion.
- ♦ Species such as the Hawaiian bobtail squid, firefly squid and hatchetfish use



Railroad worm (the larva of a beetle), which glows in two colours



Dinoflagellates in Tasmania

Symbiosis - an interaction between two different organisms living in close physical association, usually to the advantage of both.

The terms luciferin and luciferase are derived from the Latin term, *lucifer*, which means “light-bringer”.



Panellus stipticus or Bitter Oyster, a species of fungus

How Bioluminescence differs from Fluorescence and Phosphorescence

These do not involve chemical reactions, but re-emit absorbed light. Phosphorescent light simply re-emits longer than fluorescent light.

Milky Sea Effect

The Milky Sea Effect (or Mareel, derived from an Old Norse word meaning “sea fire”) is a phenomenon where a large area of the sea glows. Scientists believe it is created by millions of bacteria that glow continuously, unlike dinoflagellates (species of bioluminescent algae) that glow for short periods when disturbed.



Anglerfish



Milky Sea from space

Sources: National Geographic / Britannica / Smithsonian Ocean / BBC Earth

Olympic Games Tokyo 2020



The 2020 Summer Olympics, officially the Games of the XXXII Olympiad and branded as Tokyo 2020, is scheduled to be held from July 23 to August 8, 2021 in Tokyo, Japan.

The event was postponed in 2020 as a result of the COVID-19 pandemic, and will be held largely behind closed doors with no public spectators.

The Summer Paralympics will be held between August 24 and September 6, 2021.

Let's get to know the Sri Lankan Olympians who will be competing at Tokyo 2020.



Chamara Nuwan Dharmawardana



Judo

Chamara Dharmawardana (29 years) will lead the Sri Lankan contingent at the opening ceremony of Tokyo 2020 on July 23.

He was the first Sri Lankan judoka to compete in the modern Olympic Games when he took part in the men's 73 kg judo event at the Rio 2016 Games.



Milka Gehani De Silva

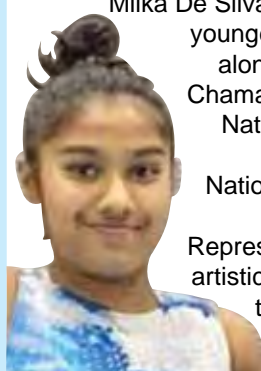


Gymnastics

Artistic Gymnastics

At just 18 years, gymnast Milka De Silva will be Sri Lanka's youngest-ever flag bearer alongside team captain Chamara at the Parade of Nations at Tokyo 2020.

She was the Junior National Champion from 2011 – 2014. Representing Sri Lanka in artistic gymnastics, she is the women's overall captain.



Niluka Karunaratne



Badminton

Veteran Olympian Niluka Karunaratne (36 years) is making his 3rd consecutive Olympic appearance. He is currently regarded as the country's number one premiere badminton player and Sri Lanka's most decorated badminton player ever, with a record 24 medals (including 9 Gold) to his name at international events.



Mathilda Karlsson

Equestrian

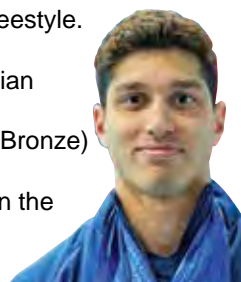
Mathilda Karlsson (37 years) born in Sri Lanka and adopted by Swedish parents, is the first qualifier for the Tokyo 2020 Olympic Games as well as the first equestrian representing Sri Lanka in an Olympic event. She made her international debut for Sri Lanka in 2018. Mathilda is jumping with her horse Chopin VA at Tokyo 2020 to make her home country proud.



Matthew Abeysinghe

Swimming

Matthew Abeysinghe (25 years) was the 1st swimmer to qualify under the Olympic Standard (to represent Sri Lanka in the 2016 Rio Games). He will represent Sri Lanka in Swimming 100 m Freestyle. The most decorated medalist in South Asian Games history, (14 Gold, 3 Silver, 1 Bronze) Matthew holds the South Asian record in the 100 m and 200 m Freestyle events.



Yupun Abeykoon

Athletics

Yupun Abeykoon (27 years) makes his dream Olympic debut as the South Asian record holder for 100 m with a record timing of 10.16 seconds. He is the first and only Sri Lankan to achieve direct qualification standards for Tokyo 2020 Olympics. He has represented Sri Lanka on numerous occasions and as of June 2021, Yupun reached his career best with a world ranking of 48.



Nimali Liyanarachchi

Athletics

Nimali Liyanarachchi (32 years) making her Olympic debut at Tokyo 2020 Olympic Games will represent Sri Lanka for athletics in the 800 m event. Nimali has represented Sri Lanka internationally and holds several accolades for her performances. She also won Gold in the Women's 800 m at the 12th South Asian Games in 2016.



Tehani Egodawela

Rifle Shooting

Sharp-shooter Tehani Egodawela (38 years) of the Sri Lanka Navy qualified to represent Sri Lanka at Tokyo 2020 in the Women's 10 m air rifle 0.1777 event. She has been named the best shooter seven times, representing the National Pool since 2012. She holds Sri Lanka records in the Women's 10 m air rifle 0.1777 event since 2018 and Women's 50 m rifle 0.22 event since 2019.



Aniqah Gaffoor

Swimming

Aniqah Gaffoor (17 years) is the youngest member of the Sri Lankan contingent this year and will make her Olympic debut swimming in the Women's 100 m Butterfly event. She is the Sri Lanka National record holder for the 50 m and 100 m Butterfly events.



Source: www.olympic.lk

Tomahawk

Quiz
No.186

Questions for the Tomahawk Quiz No. 186 are based on articles appearing in the Funday Times of July 4, 11, 18, and 25, 2021. All you have to do is to find the answers to the questions given. Write the answers neatly on a postcard. Cut the strip 'Tomahawk Quiz No. 186' seen at the top of this page and paste it on your postcard. Please get your entries certified as your own work by a teacher or parent.

Two lucky winners
will receive brand new
Tomahawk Mountain Bikes
with the compliments of
Tomahawk Bicycle Mall

All Funday Times readers between 8 – 15 years
are eligible to participate.

(Those who have already won a bicycle
are not eligible to participate.)

Closing Date: August 31, 2021



Or


fundaytimes1@gmail.com

TOMAHAWK Bicycles
COMPLETE CONTROL ON YOUR BIKING EXPERIENCE

@TOMAHAWKBICYCLEOFFICIAL | 245 B, GALLE ROAD, COLOMBO 04
BAMBALAPITIYA - 011 250 7307 | @TOMAHAWKBICYCLES

QUESTIONS — Quiz No. 186

1. Name the only Grand Slam tennis championship played on a grass court.
2. What is Bonsai?
3. Where is Temple Mount situated?
4. What is the mathematical process Google Translate uses to translate text from one language to another?
5. Who is the youngest person to travel to space and what was the name of the spacecraft he travelled in?

Please send competition entries to:



Funday Times
C/O the Sunday Times
P.O. Box 1136, Colombo.
Or
8, Hunupitiya Cross Road,
Colombo 2.

**Please note that competition entries
(except Reeves Art) are accepted by email.**

Please write the name of the competition and the date clearly at the top of your entry and include the following details:

Full Name (including Surname), Date of Birth,
Address, Telephone No. and School.

Please underline the name most commonly used.

**All competition entries should be certified
by a parent or guardian as your own work.**

Competition entries without the full details
requested above, will be disqualified.

Closing date for weekly competitions:

August 18, 2021

Telephone: 2479337/2479333

Email: fundaytimes1@gmail.com

**We regret that
we are unable to
announce winners
this week
since we are
working from home.**

Stay safe.



Young Reporters

If you are interested in joining as a Funday Times Young Reporter please fill in the coupon given and send it in to us along with a recent report or interview not exceeding 300 words. Photographs or illustrations would enhance the report.

**Young Reporters who have already
enrolled with us, please send in
new reports for publication.**



Or


fundaytimes1@gmail.com


Young Reporters Coupon

Name:

Date of Birth:

Address:

.....

Telephone:

School:

Parent's approval: Date:

.....

NOTE

Please log on to the Funday Times website on www.fundaytimes.lk or check out the Sunday Times epaper on www.sundaytimes.lk for additional pages of this week's Funday Times.

Let's read with Room to Read!

Dear Children,

Today's story is called 'Lucky Time'.

Two mice are determined to taste some jaggery kept on a stand. They try their best to snatch a piece of the sugary treat. Do you think the mice will ever get to taste the jaggery?



Let's begin...

One hot afternoon, everyone had fallen asleep except two sneaky mice. They were hungry for some of uncle's jaggery.

Just as they were about to reach for the jaggery, aunty came back from fetching water.

"Run!" cried the mice as they scurried away.

Again, they reached for the jaggery, but just as they grabbed it, the cat spied them.

"Run!" "HIDE!" What a narrow escape!

Finally, all was quiet.

"Let's get the jaggery now," squeaked the mice.

Clang! BANG! Down came the jaggery! Down came the mice!

"Bow-wow! Bow-wow!" The dog ran past.

"This dog is so naughty!" cried aunty, as she chased the dog.

"What a mess!" said aunty, as she picked up the jaggery from the floor.

The mice ran to the kitchen to hide.

Aunty opened a basket and put the jaggery away.

"What luck! Jaggery all to ourselves".

The jaggery was finally theirs to eat. They couldn't believe it!

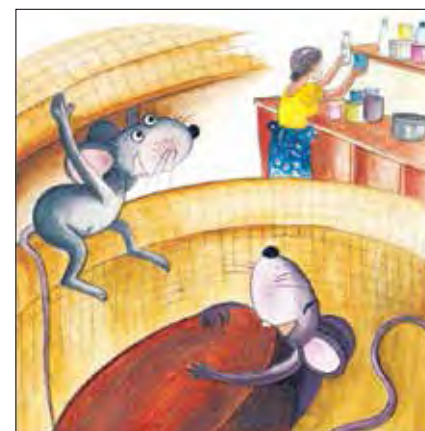
They ate and ate until their stomachs were full. "Such good Jaggery!"

After they were finished, the sneaky mice took as much as they could carry and went home.

-The End-

Access the full story with illustrations via Room to Read's [Literacy Cloud](https://literacycloud.org/stories/1750-lucky-time/).

<https://literacycloud.org/stories/1750-lucky-time/>



These storybooks are published by Room to Read, who believes that *World Change Starts with Educated Children*. This book was originally published in Sinhala by Room to Read Sri Lanka.

This week's trivia
How did the mice get the jaggery in the end?

Send your answer to literacylk@RoomtoRead.onmicrosoft.com and stand a chance to win a storybook by Room to Read! One lucky winner will be chosen every week and the prizes will be given at the end of the series.

Cartoon Time!

Hey Kids! We plan to put in more cartoons in the Funday Times and what's more they will be your own cartoons.

So, here's a chance for you to try your hand at producing your very own original cartoons.

Draw a little cartoon with a caption. It could even be a small cartoon story in a strip (not more than three boxes). The best cartoons you send will be published in the Funday Times. So good luck to all you cartoon fans!

Send in your cartoon!



Please remember that the cartoons you send in should be your original work and not copied or traced from anything. They should be certified as your own work by a parent or teacher.

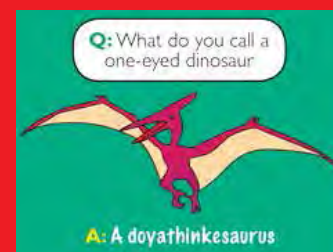
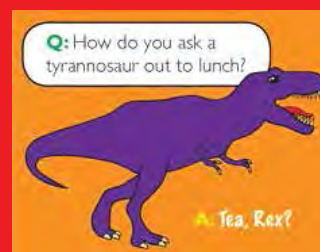


Or



fundaytimes1@gmail.com

Jokes



July 27

News in Pictures



Yellapur, India
Onlookers gather near the site of a landslide due to ongoing heavy monsoon rains in the Uttara Kannada district of Karnataka.



Calgary, Canada
Dr. Liz Ruelle uses a new app called Tably that reads cats' faces and helps her monitor their health at the Wild Rose Cat clinic in Alberta.



Suesel, Germany
A man performs on his wakeboard on a lake in Suesel.

Susanville, USA
A firefighter uses a drip torch to ignite vegetation while trying to stop the Dixie fire from spreading in Lassen National Forest in California.



Zhengzhou, China
Rescue workers enter a subway station to inspect flood waters following heavy rainfall in Henan province.



Pyongyang, North Korea
Leader Kim Jong-un lays a flower at the Fatherland Liberation War Martyrs Cemetery for the 68th anniversary of the Korean armistice.

Dover, England
A view of one of two areas now being used at a warehouse facility for boats used by people thought to be migrants. The boats are stored after being intercepted in the Channel by Border Force as attempts to make the crossing continue.



Fujisawa, Japan
Norway's Helene Naess and Marie Rønningen capsize during the 49erFX Olympics race at Enoshima harbour.



San Juan, USA
A phoropter is used to find the right eyeglass prescriptions during Operation Lone Star, a programme involving local, state and federal health agencies conducting public health exercises nationwide, in Texas.

Source: The Guardian

July 26

News in Pictures



Mersin, Turkey
A lemur checks the rushes on Media Day at Tarsus nature park.



Tokyo, Japan
Adam Peaty celebrates winning Olympic gold in the men's 100 m Breaststroke final.

Athens, Greece
A cyclist takes part in a BMX water jump event at Kavouri beach.



Moscow, Russia
A plane flies in front of the waning gibbous moon.



Skofljica, Slovenia
Lost Highway by Piotr Skrzypiec, which shows the 1 km-long Crni Kal viaduct shrouded in fog - the winner of Canon's first Redline Challenge photo competition.



Sardinia, Italy
A plane drops water on a wildfire near Oristano.

Aleppo, Syria
A labourer works on the renovation of the Beit Ghazaleh house, an Ottoman-era residence.



Rome, Italy
People demonstrate against Covid vaccination passports.



New York City, USA
People take part in an annual body-painting day near Union Square.

Source: The Guardian



Rugrats



Ginger Meggs

