



KNOW BEL

ENLIGHTENING THE NOBLES!

DISCOVERING SCIENCE

THE UPRISING

ISSUE NO. 2

FEBRUARY 2020



AN EXCLUSIVE MAGAZINE LOADED WITH INTERACTIVE FUN AND KNOWLEDGE

Contact us @:
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KNOWBEL

Enlightening the nobles !



WELCOME !

To the second issue of KNOWBEL monthly.

We happily present the second issue of our magazine with more fun and knowledge. We have introduced new sections in this issue to boost up your enthusiasm. Do explore them on your own. Also don't forget to participate in the contests and send your articles, poems, quotes etc. to enjoy it to the fullest. So chin up and go for it.

Let's go exploring !

SPECIAL THANKS TO

DR. APARNA DESHPANDE
Faculty Advisor

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CONTENTS

- ISSUE No. 2-

INTRODUCTION

All about us and our journey

1

WONDERELLA

Discover the latest happenings around the globe

3

GOBBLE THE FACTS

A small dose of fun filled facts

8

SCIENCE DAY SPECIAL

Innovative project ideas to shoot up your neurons

10

QUIZOPEDIA

Get ready to fight for the no. 1 spot in brain-storming

13

D-CODE

An ultimate deduction game

14

INSPIRON

A brief biopic of an inspiring figure.
In this issue : Dr. Prakash Baba Amte

15

POETICA

Dissolve yourself in the melody of words by famous poets.
In this issue: Samuel Taylor Coleridge

20



WONDERELLA

NEVER STOP QUESTIONING

IMAGE BY WIKIIMAGES FROM PIXABAY

LIGO DETECTS RIPPLES IN SPACE-TIME WHICH SOLVES A 100 YEAR OLD MYSTERY!

When objects like blackholes and neutron stars collide, they send out ripples in the “fabric” of space time. This is somewhat analogous to water waves in a pool that are created by any disturbance. **Ripples in space-time are called gravitational waves** (LIGO) recently detected gravitational waves from a collision of two neutron stars. However, they did not observe any light from the collision. This could suggest that the neutron stars formed a black hole which did not allow any nearby radiation which was created, to escape. This makes it significantly different from the first collision detected in 2017 which released x rays, gamma rays, radio waves as well as visible light.

Neutron stars are the remnants of massive stars which exploded in a supernova leaving behind their core, which is a dense spherical body made almost entirely of neutrons which are so tightly packed that a 10km radius neutron star would have a mass equal to that of the sun.

It is believed that the collision in 2017 forged gold which had a mass of about 50 earths, i.e. its price would be 100 octillion dollars. (\$100,000,000,000,000,000,000,000,000,000,000,000,000,000,000).

INSPIRING READS IN THIS ISSUE:

02 - SURPRISING BEHAVIOR OF WATER WAVES AT HIGH-GRAVITY!

03 - SERIES OF SEISMIC WAVES AROUND THE GLOBE TRACED BACK TO THE FORMATION OF AN UNDERWATER VOLCANO

04 - DEVELOPING OF INDIGENOUS GRAPHENE SUPER-CAPACITORS

05 - TELESCOPE ON AIRPLANE REVEALS NEW DETAILS OF THE MILKY WAY!

VISIT [HTTPS://WWW.BUSINESSINSIDER.COM/GRAVITATIONAL-WAVES-NEW-CLASS-OF-COLLISION-NEUTRON-STARS-2020-1](https://www.businessinsider.com/gravitational-waves-new-class-of-collision-neutron-stars-2020-1) FOR MORE INFORMATION OR SCAN THE FOLLOWING QR CODE -



02 - SURPRISING BEHAVIOR OF WATER WAVES AT HIGH-GRAVITY!

Waves on the surface of any water body have been a subject of human fascination for decades. The motion of any individual wave seems trivial to describe, its just a series of crests and troughs (ups and downs) after all! However, turbulence, which results from the interactions of many random waves, is hard to describe. The picture above gives the impression of a viscous (thick) liquid like jelly being stirred. However, its just water which is being stirred under gravity which is 20 times stronger than earths surface gravity. The stirring causes waves to form and interact with each other. Normally, at higher frequencies, surface tension governs these interactions . However, at very low frequencies, Gravity dominates. Scientists at the European Space Agency (ESA) created an effective gravity which was 20x stronger than we normally feel, using the Large Diameter Centrifuge (LDC). By doing this, we can have gravity affecting the interactions even at higher frequencies. What they found is, the timescale of interaction doesn't depend on the frequency of the wave, rather, it depends on the LONGEST wavelength possible for that system, which means that it depends on the containers size (as the wavelength cannot exceed a maximum, which depends on the length/breadth/height/radius i.e. any size parameter of the container). This means that oceanographers studying water waves, meteorologists studying the air waves/turbulences etc should take into account the "container" of the medium which can be region in which the waves are confined (sea floor, earths surface, etc). This also applies to those studying plasma confined with magnetic fields in fusion reactors. The LDC is an 8 meter diameter four-arm centrifuge that allows researchers to simulate gravity upto 20 times Earth's gravity)for weeks or months at a time. At its fastest, the centrifuge rotates at up to 67 revolutions per minute!



IMAGE BY AREK SOCHA FROM PIXABAY

MORE INFORMATION: A. CAZAUBIEL ET AL. WAVE TURBULENCE ON THE SURFACE OF A FLUID IN A HIGH-GRAVITY ENVIRONMENT, PHYSICAL REVIEW LETTERS (2019)

OR SCAN THE FOLLOWING QR CODE -



03 - SERIES OF SEISMIC WAVES AROUND THE GLOBE TRACED BACK TO THE FORMATION OF AN UNDERWATER VOLCANO

A series of seismic pulses which originated from the coast of Mayotte(a small island in the part of the Indian ocean between Mozambique and Madagascar), were detected on 11th November 2018. These pulses had a lifetime of about 40 minutes and were detected by scientists in east african countries and smaller reverberatory waves were also detected in Chile, Hawaii and even in New Zealand. The structure and pattern of wave formation characterized by slow moving and low frequency waves are generally associated with large earthquakes (which are more chaotic). "They're too nice. They're too perfect to be nature," said Helen Robinson, a volcanology researcher at the University of Glasgow. By tracing these tremors, a team of German scientists have modelled/re-constructed the collapse of one of the largest magma reservoirs of the upper mantle. The collapse occurred due to the formation of a large underwater volcano which appeared several months before the tremors were detected. It also led to a 5.8 magnitude earthquake near Mayotte, which had been seismically inactive for the last 4000 years!The mysterious tremors have caused Mayotte to sink and drift eastwards. It all started when a large magma chamber had magma erupting from it suddenly, due to the formation of a channel about 30 km in length. As the chamber got emptied the roof of the chamber caved in creating the seismic pulses. Because this collapse was taking place so far from the water's surface, the distant earthquakes were practically undetectable.

"However, there are still possible hazards for the island of Mayotte today, as the Earth's crust above the deep reservoir could continue to collapse, triggering stronger earthquakes" he warned.

" They're too nice. They're too perfect to be nature."



PHOTO BY MARC SZEGLAT ON UNSPLASH

MORE INFORMATION: [HTTPS://WWW.LIVESCIENCE.COM/65545-LARGEST-UNDERWATER-VOLCANO-SEISMIC-HUM.HTML](https://www.livescience.com/65545-largest-underwater-volcano-seismic-hum.html)
OR SCAN THE FOLLOWING QR CODE -

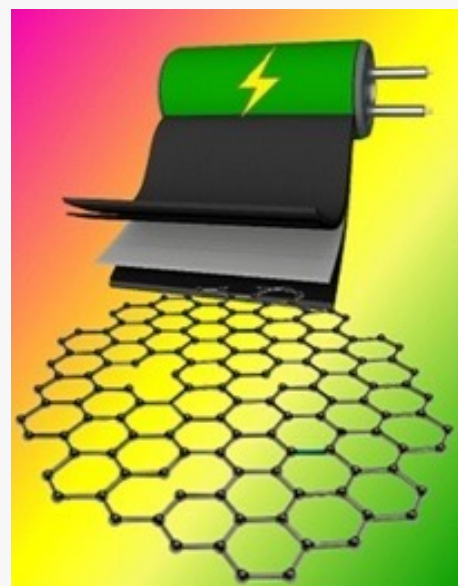
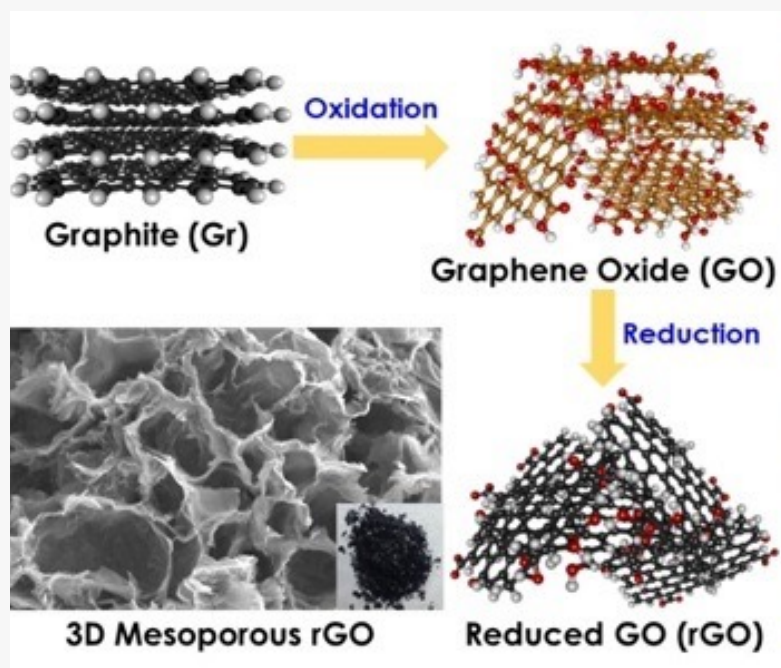


04 - DEVELOPING OF INDIGENOUS GRAPHENE SUPERCAPACITORS

The Indian Institute of Science Education and Research (IISER) and SPEL technologies Pune have developed a method to create functional graphene at low costs, which will be used for building graphene based supercapacitors, which can be used for energy storage. Supercapacitors are a class of electrical devices which can be used to store a large amount of charge. They require a layer of electrolyte (which is a conducting material, solid liquid or something else, such as an aqueous solution).

This new method of reducing graphene oxide is claimed to lead to the formation of self-healed ambient stable, reduced graphene oxide (rGO). The cost of raw materials for the production of one gram of rGO is estimated to be less than ₹700 (or \$9.81). This is much lower than the current commercial price. The team of researchers at IISER pune, led by Dr. Nirmalya Ballav, is now working for the pilot scale production of rGO.

With the production of 500 gm quality rGO, 10F and 500 F rGO based supercapacitors with an energy density of 20 Wh/kg, will be launched by the end of 2020 and would be ready for usage in common electronic equipments.



MORE INFORMATION : [HTTPS://DST.GOV.IN/IISER-SPEL-PUNE-JOINTLY-DEVELOP-INDIGENOUS-GRAPHENE-SUPERCAPACITOR](https://dst.gov.in/iiser-spel-pune-jointly-develop-indigenous-graphene-supercapacitor)
OR SCAN THE FOLLOWING QR CODE -





IMAGE BY SKEEZE FROM PIXABAY

05 - TELESCOPE ON AIRPLANE REVEALS NEW DETAILS OF THE MILKY WAY!

The world's largest airborne telescope, the Stratospheric Observatory for Infrared Astronomy, or SOFIA, which is a modified Boeing 747, pointed its camera called FORCAST – the Faint Object Infrared Camera for the SOFIA Telescope, to observe warm, galactic material emitting at wavelengths of light that were undetectable by other telescopes. It combined its results with images from NASA's Spitzer Space Telescope and the European Space Agency's Herschel Space Observatory, to give some astounding pictures of our galaxy. Astronomers have obtained detailed and sharp images of the dense centre of the Milky Way galaxy, which contains a lot of dust and gas, and can be a region for formation of massive stars. They have observed the Arches cluster, the densest collection of stars in our galaxy and the Quintuplet cluster, which has stars that are a million times brighter than the sun! Understanding the birth of massive stars in our galaxies helps astronomers and astrophysicists to figure out the nature of stars in distant galaxies (which are quite old, and thus have population I stars which are on an average about 100x more massive than our sun). The number of stars in the Milky Way's central bulge is about 10x less than what's expected. Another mystery that these pictures are expected to uncover is the matter around the supermassive black hole at the centre of our galaxy. It is believed to have a mass of about 4 million solar masses. Scientists can clearly see the ring of material that is feeding the black hole and it is about 10 light years across. This ring might eventually be "eaten up" by the black hole, however, it seems that there is an external source of matter for this ring which keeps it from diminishing in size and mass. SOFIA, is a modified Boeing 747SP jetliner modified to carry a 106-inch diameter telescope. It is a joint project of NASA and the German Aerospace Center, DLR.

MORE INFORMATION :

[HTTPS://WWW.NASA.GOV/MISSION_PAGES/SOFIA/OVERVIEW/INDEX.HT](https://www.nasa.gov/mission_pages/sofia/overview/index.html)

ML

OR SCAN THE QR CODE BESIDES :



GOBBLE THE FACTS!

Get ready to guzzle down these interesting facts...



Photo by NASA on Unsplash

SPACE WATER !

Astronomers have discovered the largest and oldest mass of water ever detected in the universe – a gigantic, 12-billion-year-old cloud harboring 140 trillion times more water than all of Earth's oceans combined.

MATH MAGIC !

"2520" is the smallest number that can be divided by of the numbers from 1 to 10 without any remainder.



Illustration by Pradeep

WHY YOU HAVE GREEN BLOOD UNDERWATER ?



Image by David Mark from Pixabay

It's not that your blood actually turns to the color green underwater. It begins to appear that way at around the 30 feet below mark. Different colors (which are different wavelengths of light) get absorbed by water at a different rate. The color red disappears quicker but blues and greens travel longer.



ENGINEERING MARVEL !

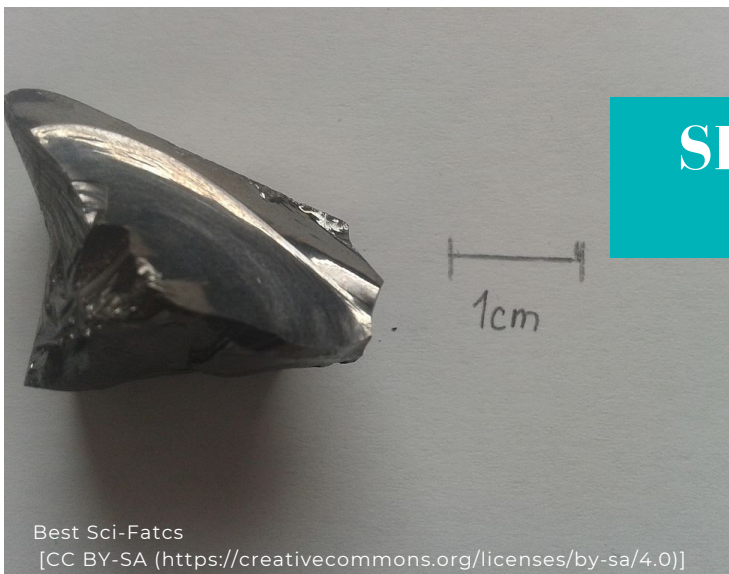
China builds world's largest Air Purifier. The 100 meter high Anti-smog tower can produce about 10 million cubic meter of fresh air everyday.

SPACEWALK TIME !

NASA astronaut 'Christina Koch' breaks world record for longest continuous stay in space by a woman. She will complete 328 days in orbit around earth by the time she returns in February 2020.



NASA [Public domain]



SELENIUM CONDUCTOR OR INSULATOR ?

The element Selenium conducts electricity only when light is shined on it. In the dark it is an insulator.

Best Sci-Facts
[CC BY-SA (<https://creativecommons.org/licenses/by-sa/4.0/>)]



KNOWBEL

ENLIGHTENING THE NOBLES !

SCIENCE DAY SPECIAL

CAN I CONTROL YOU?

The Science of Brains

Human Activity Characterization and Classification using Brain Computer Interface

• Introduction

Have you ever wondered whether you are capable of controlling the people around you? In fact, you may be surprised to find out that it is indeed possible to use technology to enable one person to control another. The brain is one of the most challenging yet extremely fascinating parts of the human body when it comes to exploring. Today, one main reason young minds learn very little about the human brain is the high cost involved and the complexity of the working mechanism in general. However, a significant 20% of the world's population suffers from neurological disorders of one form or the other. It is high time we confront the problem and do what we can to shed light on and unravel the mysteries of this vital organ in our body. This apparently simple project holds great potential in fields ranging from software engineering to medicine. It equips a person to direct the movements and actions of another person by merely thinking about it. Read on to know how this brain-computer interface works!

Wondering how does it work ?

The model consists of an Arduino software, relay system, amplifier, TENS unit and electrodes. To begin with, we affix an electrode on the controller's nerve and detect the electric signals from his/her hand. The detected signals are extremely weak and this gives rise to the need for amplification. The necessary amplification is achieved using an amplifier. The electric signal received as an output from the controller is then processed by the Arduino IDE software and is converted into a digital form. Transforming the electric signals into digital ones results in another complication as the human body does not comprehend the digital code and hence, cannot be directly controlled by the controller. This is where the TENS unit comes into play. TENS stands for Transcutaneous Electrical Nerve Stimulation and works by delivering small electrical impulses through the electrodes attached to the person. It is usually used as a pain reliever but in this prototype, it is used to transmit the signal received from the controller's gestures into the receiver and manipulate his/her hand movement. The signal processed in the Arduino software is relayed to the TENS unit which further channels it into the ulnar nerve of the person at the receiving end of the pulse.

The ulnar nerve is situated on the rear side of the hand plays a critical role in controlling movements involving the middle, ring and little fingers. As a consequence, the person at the receiving end of the impulse finds himself/herself involuntarily moving his/her fingers when the controller does so. That is amazing, isn't it? Our brain consists of three major components - the cerebrum, the cerebellum and the medulla. The cerebral cortex is a thin layer that encloses the cerebrum and is responsible for redirecting signals from the brain to various parts of the human body through nerve impulses. In our design, we obtain and utilize these neural signals to facilitate one person to govern the motion of another person. Besides, this experiment works only when the controller voluntarily thinks about the action he/she is performing as it is only then that the detector can perceive the signal and trigger further operations. In other words, this design wouldn't respond if a third person moved the fingers of the controller.



Uses of this project

Our project can be use in two ways

- Human to human interface
- Human to machine interface

The main advantage of the project is that it can prove to be extremely useful in the field of medicine. With the number of people with neurological disorders snowballing at an alarming rate, there is a pressing need for a method by which the patients can communicate with the world. This model can help people with claw hands or even patients suffering from paralysis. This can be achieved by fitting the device to a healthy person and controlling the person with the disability, thus enabling him/her to perform the action he/she desires. Neural diseases usually occur because the electric signals sent from the brain fail to reach the assigned body part due to some intermediate nerve damage. Keeping this in mind, it is quite evident why such a device would go to large extents to benefit patients and equip them to become more and more self-dependent.

Team members :

Team:

1. Anubhav Mishra
2. Akash Nagpal
3. Astha Singh
(PSIT Kanpur)

Mentor:

Dr. Yogesh Mohan Dubey

For more information please visit : https://youtu.be/Z_9l0YUstruY

Do send your unique project ideas @ knowbel.science@gmail.com



THE QUIZOPEDIA

Are you ready to get your brain busted !



The Quizopedia

A brain-storming contest and a chance for the readers to become famous.

But hold your horses right there! Check out the instructions below before you begin :

The QR code below will take you to a Google form which is a quiz consisting of 10 questions. You must answer all the questions and try to get most of them correct. There will be no negative marking. The names of first three winners would be published in the upcoming issue and winner of the contest will get exciting prizes at the end of the contest. Answers would be officially released via mail on 25/02/2020.

(Competition begins on 01/02/2020 at 6 pm)

The winners would be chosen based upon

1. No. of correct answers
 2. Time of submission
- Deadline : 20/2/2020

So let's begin....

Scan below or click on the QR code.

Quizopedia winners:

- 1) Mihir (IISER pune)
- 2) Akshada (PGEMS Ioni)
- 3) Pushkar (IISER pune)

Answers to the previous quiz have been mailed to the participants.



Photo by Siora Photography on Unsplash

Quiz master: Aditya

D-CODE

THERE IS ONLY ONE TRUTH !
BRING OUT THE SHERLOCK IN YOU.

IMAGE BY COMFREAK FROM PIXABAY

D-CODE

Here is a brainy puzzle for you. Use anything and everything that you can and decipher it. The answer can be a word or couple of words. Scan the QR code below and send us the right answer in shortest amount of time to get that glory. The winner and next 2 runner-ups will have their names printed in the upcoming issue. Top the leader-board and win exiting prizes and the end of the contest. Competition starts on 01/02/2020, 6pm.

Here comes the question:

1. The answer to all these questions is too easy.
2. What's in store?

Images related to above questions are on the right side of the page.

The decode question was undefeated in the last issue. Don't let the challenger counter you O Sherlock, charge up defeat him now !

Deadline: 20/2/2020

- QR code for hints : (Remember hints would be released 48 hours after the start of the contest)



2.



- To submit your answer scan the following QR code :



INSPIRON



Enlightening the nobles !

DR.PRAKASH BABA AMTE

*Amazing Example of How Man &
Wild Animals Can Live in
Perfect Harmony*





Illustration by Ritu Dhaulakhandi

In our childhood, wild creatures like pythons, leopards, etc. were portrayed as incredibly scary and harmful creatures, which should be best observed in a zoo or a show in National Geographic. Though there may be some truth in such a portrayal, all wild creatures are not scary. Dr. Prakash Baba Amte's 'Animal Ark' is the living testament to the notion that humans can indeed live in harmony with such animals. The selfless efforts and the outpour of love and care from Dr. Amte and his wife Dr. Mandakini Amte have shown that man and the animals can indeed live under one roof as family members.

01. HOW DID DR. PRAKASH BABA AMTE'S 'ANIMAL ARK' HAPPEN

The origins of 'Animal Ark' arose from an event in the 70s when the doctor duo during a stroll in the Dandarayana forest came across some tribal people carrying a dead monkey with its baby still suckling at her breast. Moved by what they saw, the Amtes bought the baby monkey from the tribesmen in exchange for rice and clothing and nurtured it in their home at Hemalkasa, a small village in eastern Maharashtra. The inclusion of the baby monkey into their family set the ball rolling for the establishment of 'Animal Ark' which later on became a home to several such animal orphans. Over the next 40 years, animals ranging from crocodiles and leopards to owls and pythons, whose parents suffered the same fate as that of the baby monkey, have been warmly welcomed by the orphanage.

WITHIN THESE PAGES:

01 *HOW DID DR. PRAKASH BABA AMTE'S 'ANIMAL ARK' HAPPEN*

02 *CHANGING THE LIVES OF THE MADIA-GOND TRIBAL PEOPLE*

03 *GOING BEYOND THE ORDINARY*



“

The condition of the tribals is worse than those inflicted with leprosy.

Purna swaraj can only be possible when the poorest of the poor is uplifted.

”

02. CHANGING THE LIVES OF THE MADIA-GOND TRIBAL PEOPLE

Dr. Prakash Baba Amte is the son of legendary freedom fighter cum social servant Baba Amte whose work for the empowerment of leprosy afflicted is renowned nationwide. On the completion of his doctor's degree, Dr. Prakash Amte began studying for his MS. However, fate had something else in store for him. While on a picnic to Hemalkasa with his father, Dr. Amte was shocked at seeing the state of the Madia-Gond tribespeople living in that region. Those days Hemalkasa was a small isolated tribal community with no power and transport facilities. The tribes people lived like savages, surviving on hunting wild animals. They were entirely left out from the rest of the world, and thus did not know anything regarding essential amenities like primary medical care or even clothing! Looking at the seriousness of the situation, Dr. Amte thought that something must be done to improve the conditions of the tribal people. He immediately dropped his MS studies and moved to Hemalkasa with his wife, Dr. Mandakini Amte. The initial years were incredibly arduous for the couple.



Illustration by Ritu Dhaulakhandi

They had to treat the tribespeople in a makeshift hospital with zero power supply. To increase awareness in the community, they taught the kids beneath a tree. Agricultural techniques were inculcated among the tribal people so that they no longer depend entirely on hunting for survival. Eventually, their selfless work brought them to the mainstream and in the process, several engineers, doctors, and teachers were nurtured by the duo. Over the last 40 years, their efforts for the development of the region have borne rich dividends with the establishment of a hospital equipped with modern facilities, a residential school reaching out to hundreds of tribal kids along with the development of the afore-mentioned 'Animal Ark.'

03. GOING BEYOND THE ORDINARY

Dr. Prakash Amte and his wife have devoted their entire life to the betterment of the tribal people and local wildlife of the Gadchiroli region. Their efforts in introducing agriculture among the tribal people led to more harmony between the tribal people and the wild animals which were earlier hunted down for food. Though the couple were not trained to be veterinarians, they went beyond the ordinary and created a safe haven for deserted and injured animals within their own courtyard.

“

*When you
give roses to
others, the
perfume is
bound to
linger on your
hands!*

”



INSPIRON



Satyen K. Bordoloi [Public domain]

“

*The future
belongs to the
common man
with
uncommon
determination.*

”



The work of the Amtes reached out to the masses through the biopic 'Dr. Prakash Baba Amte: The Real Hero' which was released in Marathi, Hindi and English. The movie showcased his pioneering achievement in transforming an aboriginal community into a modern society and is a source of inspiration for all of us. His extensive work was recognized globally when he and his wife were awarded the prestigious Ramon Magsaysay Award for 'Community Leadership' in 2008. Dr. Prakash Amte is also a recipient of the Padma Shri and the Lifetime Achievement Award from ICMR presented by Bill Gates. In spite of their numerous awards and nationwide fame, this down-to-earth couple continues to carry on their astounding work in Hemalkasa without any fanfare.

More info :

<https://www.realbharat.org/dr-prakash-baba-amte-amazing-example-of-how-man-wild-animals-can-live-in-perfect-harmony/>

Or scan the following QR code:



THE RIME OF THE ANCIENT MARINER

BY SAMUEL TAYLOR COLERIDGE

It is an ancient Mariner,
And he stoppeth one of three.
'By thy long grey beard and glittering eye,
Now wherefore stopp'st thou me?

The Bridegroom's doors are opened wide,
And I am next of kin;
The guests are met, the feast is set:
May'st hear the merry din.'

He holds him with his skinny hand,
'There was a ship,' quoth he.
'Hold off! unhand me, grey-beard loon!
Eftsoons his hand dropt he.

He holds him with his glittering eye—
The Wedding-Guest stood still,
And listens like a three years' child:
The Mariner hath his will.

The Wedding-Guest sat on a stone:
He cannot choose but hear;
And thus spake on that ancient man,
The bright-eyed Mariner.

'The ship was cheered, the harbour cleared,
Merrily did we drop
Below the kirk, below the hill,
Below the lighthouse top.

The Sun came up upon the left,
Out of the sea came he!
And he shone bright, and on the right
Went down into the sea.

Higher and higher every day,
Till over the mast at noon—'
The Wedding-Guest here beat his breast,
For he heard the loud bassoon.

The bride hath paced into the hall,
Red as a rose is she;
Nodding their heads before her goes
The merry minstrelsy.

The Wedding-Guest he beat his breast,
Yet he cannot choose but hear;
And thus spake on that ancient man,
The bright-eyed Mariner.

ABOUT THE POET



Image By : Peter Vandyke [Public domain]

Samuel Taylor Coleridge (21 October 1772 – 25 July 1834) was an English poet, philosopher and literary critic. He was the founder of the Romantic Movement in England with his friend William Wordsworth. Along with 'The Rime of The Ancient Mariner' he also wrote Kubla Khan and major prose work Biographia Literaria. His work on Shakespeare, was highly influential and he helped in translating German idealist Philosophy to English-Speaking culture.



And now the STORM-BLAST came, and he
Was tyrannous and strong:
He struck with his o'ertaking wings,
And chased us south along.

With sloping masts and dipping prow,
As who pursued with yell and blow
Still treads the shadow of his foe,
And forward bends his head,
The ship drove fast, loud roared the blast,
And southward aye we fled.

And now there came both mist and snow,
And it grew wondrous cold:
And ice, mast-high, came floating by,
As green as emerald.

And through the drifts the snowy clifts
Did send a dismal sheen:
Nor shapes of men nor beasts we ken—
The ice was all between.

The ice was here, the ice was there,
The ice was all around:
It cracked and growled, and roared and howled,
Like noises in a swound!

At length did cross an Albatross,
Thorough the fog it came;
As if it had been a Christian soul,
We hailed it in God's name.

It ate the food it ne'er had eat,
And round and round it flew.
The ice did split with a thunder-fit;
The helmsman steered us through!

And a good south wind sprung up behind;
The Albatross did follow,
And every day, for food or play,
Came to the mariner's hollo!

In mist or cloud, on mast or shroud,
It perched for vespers nine;
Whiles all the night, through fog-smoke white,
Glimmered the white Moon-shine.'

'God save thee, ancient Mariner!
From the fiends, that plague thee thus!—
Why look'st thou so?'—With my cross-bow
I shot the ALBATROSS.

More Info:

<https://www.poetryfoundation.org/poems/43997/the-rime-of-the-ancient-mariner-text-of-1834>

Or scan the following QR code -



The knowbel pages are ready. Fill them with your imagination, Mail us your poems, articles, views, queries, etc. at: knowbel.science@gmail.com



Image by Jeremy Thomas on unsplash

Thank you for reading our second issue. Do let us know your reviews about knowbel and keep us motivated through the following link or by just scanning the QR code:

<https://forms.gle/a7whZUs-nDE5g9bQPA>

TEAM

