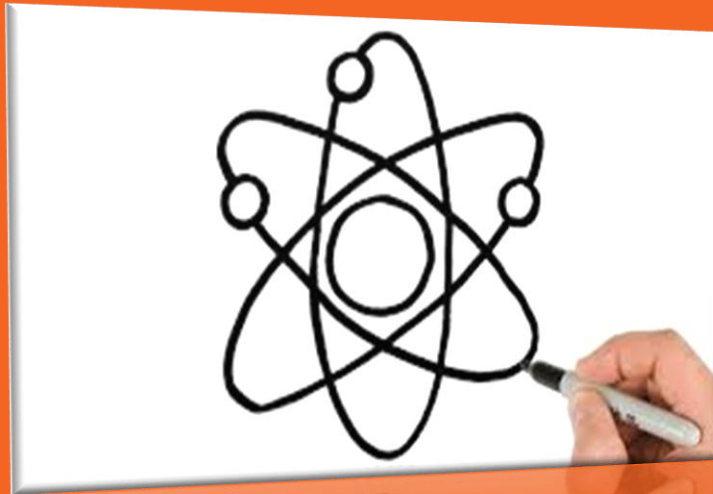

Science and Health/ Technology Writing



Al Bambino M. Camino, MT II
Regional Trainer
School Paper Adviser
The ECHO – Vinzons Pilot HS
Division of Camarines Norte



3 Main Reasons

→ Way of Life

The application of science now form part of our contemporary way of life.

→ Development

Filipino tax payers are the main supporters of science researches and development of today.

→ Science Itself

Science is mankind's most intellectual attainment.

—

It is therefore imperative that there should be some individuals to break between scientists and the public.

Formula for an effective S&H/T Writer?

80% good journalism



20% aptitude to learn to communicate and translate science and technological discoveries and inventions.

“Science writers, like all other journalists, must have an insatiable appetite for reading, and the best are endowed with a memory like a filing cabinet.”

- Anthony Tucker

Science Editor

The Guardian – British newspaper





In the field of newspapering...

- Degrees or diplomas in science journalism are **not prerequisite** for hiring
- **"nose for science news"** and knowledge where and how to get there:
 - a. Alert mind
 - b. Aptitude for investigative work
 - c. Up-to-date knowledge of developments in sci-tech



Science & Health/ Technology Writing

“expressing S&H/T in a more acceptable language understandable to layman”

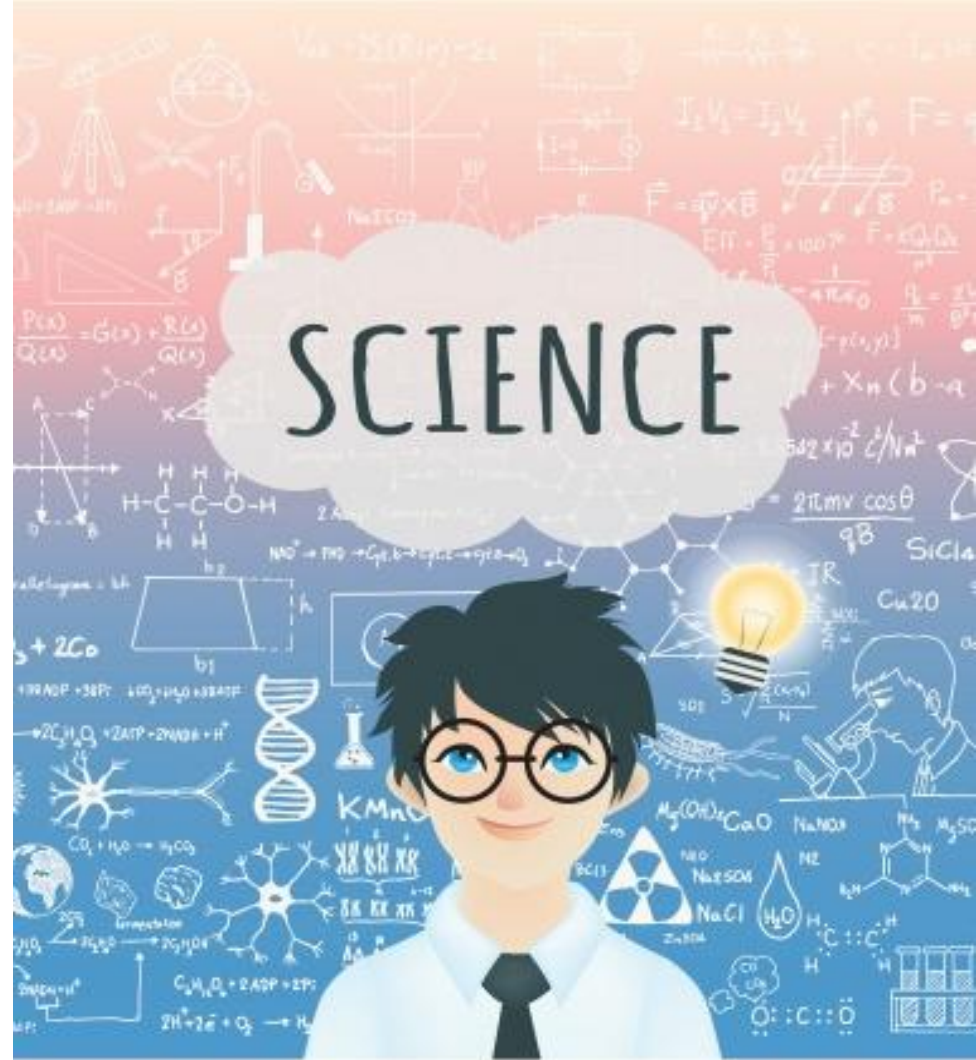


S&H/T
Writer
wears two
hats....

1. As **translator** of scientific or technical jargon into simple and easy-to-understand terms; and
2. As **interpreter** of S&H on their benefits to mankind.

S&H/T Writing

- ✓ An art because it uses the fine style inherent to any writing craft.
- ✓ A science because it uses a set of rules and procedures to follow in developing science stories for easy understanding among its readers.



Scope of Science and Health/Technology Journalism:

- Science articles could be categorized as:

Science News

Science Feature

Science Editorial

Science & Health/Technology Feature:

- Interesting write-ups on science and health facts, not fiction;
- Done in a very imaginative, creative, and interesting, manner.
- Deals with events, people, trends, and processes in science and technology

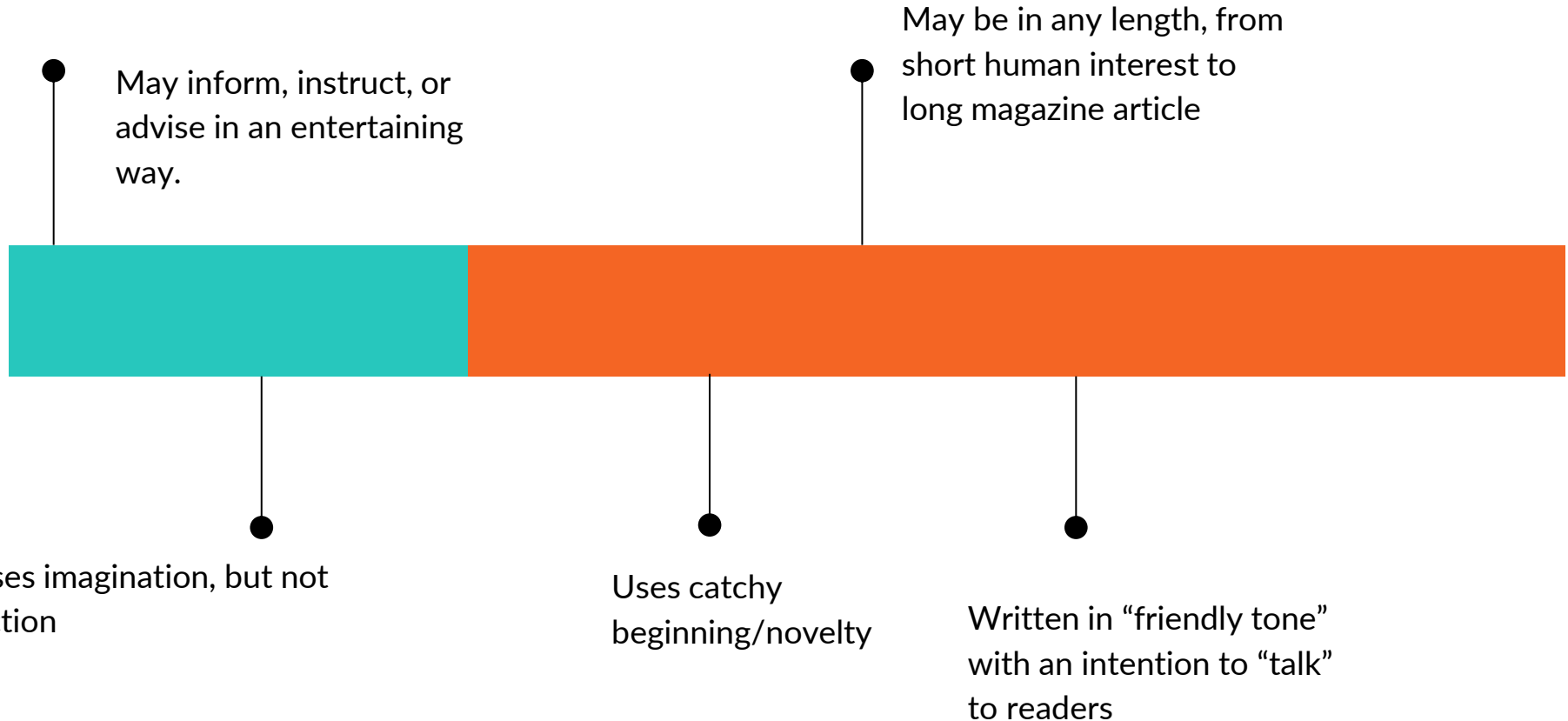




Elements of Science & *Health* Feature:

- Degrees or diplomas in science journalism are not prerequisite for hiring
- “nose for science news” and knowledge where and how to get there:
 - a. Alert mind
 - b. Aptitude for investigative work
 - c. Up-to-date knowledge of developments in sci-tech

Characteristics of Science & Health/Technology Feature



SCORESHEET FOR SCIENCE AND TECHNOLOGY WRITING

Form and Style (40%)	Score
Manifests unity and coherence to the theme or topic given	
Has a catchy and appropriate headline that is clear and free of bias	
Observes rules of grammar and syntax	
Shows logical presentation of arguments	
Contains leads that are clearly written and focused on the most important detail	
Follows appropriate form and style	
Uses appropriate terms and lingo to report or discuss events	
Observes gender-fair language	
Content (50%)	
Utilizes facts from interviews, documents review, data analyses, and other reliable sources	
Presents relevant and timely issues on science and technology	
Uses technical jargon to a minimum	
Presents technical and complicated scientific concepts or ideas in a manner that can be understood by a wide variety of readers	
Cites scientific references, statistics, and relevant figures or facts to bolster the credibility of statements, and/or narratives	
Ethics (10%)	
Showcases original works of students	
Properly cites information and attributes these facts from the source of information (cuts across all events)	
Observes standards of journalism in terms of fairness, relevance, accuracy, and balance	
Has no potentially libelous or obscene content, plagiarism, and copyright violations	
Total (100%)	



So what's in it for me?

Structure of Science and Technology Article

1. Eye catching headline/title
2. Introduction (opening paragraph)
 - use catchy beginning/novelty
 - start with the S&H/T issue or problem
 - narration (character)
 - examples
 - figures/numbers
3. Body (provide questions)
 - Search for solution/s
 - Elaboration of facts
4. Conclusion (closing paragraph)
 - reiterate beginning
 - give conclusion
 - recommendation





Health on Wheels

TEXT AND PHOTOS
BY KARA SANTOS

The "Health on Wheels" concept aims to increase awareness on practices related to maternal and child health and nutrition with the main message of "No One is Left Behind: We Are All Drivers in this Journey to Health," or in the vernacular, "Walang Iwanan sa Bihang Kalusugan."

In many hard to reach areas across the Philippines, poor families living in remote communities still have limited access to health services. Many people still lack access to medicine, are not able to get regular checkups, or are not able to get to a doctor in time when they get sick.

One means of addressing this is to increase the public's awareness of health issues in order for people to get healthier and stay healthy. Focusing on the preventive side of disease promotion instead of the curative can help save more lives in the long run.

In order to promote health awareness, the Department of Health (DOH) embarked on a project dubbed "Lakbay Buhay Kalusugan" (LBK), or "Journey to a Healthy Life." Since 2011, this health caravan has been going around the Philippines bringing basic health messages and services to poor families and remote communities.

The project uses the concept of a traveling bus as a platform to reach families and communities with messages on health-seeking practices through a fun and interactive environment.

The program, led by the National Center for Health Promotion (NCHP) of the DOH, is said to be a major vehicle in popularizing the government's agenda of universal access to healthcare.

As a freelance photographer, I got a chance to tag along on two legs of the health

caravan to document how these health events are conducted. Going around to different spots in the country while helping out poor communities seemed like too good a chance to pass up.

The highlight of the health caravan was a customized Victory Liner bus, which doubles as a mobile maternal and child health clinic. Unlike the regular buses that ply the provincial roads, the whole bus is wrapped in colorful drawings depicting different health services and the different communities it has served.

Several rooms of seats inside the bus serve as a lobby and waiting area for patients. The back of the bus contains two consultation clinics, a small sink and two examination rooms with beds that can be curtained off. This serves as a clinic for local health service providers to offer antenatal, postpartum and childcare with integrated family planning and nutrition counseling.

The bus also carries information materials and interactive exhibits on nutrition, family planning and health behavior, which are set up in the different rooms during their visits. LBK offers a guided tour of the interactive health exhibit, where people learn key health messages in

maternal and child health, family planning, nutrition, tuberculosis, hand washing, and healthy living. Specially-trained local health volunteers manage the interactive exhibits, which range in topic from proper meals for different times of the day, the different stages of pregnancy, how to avoid getting dengue, the ill effects of smoking, and so on.

The health events use songs, storytelling sessions and entertainment shows to teach children how to stay active and healthy. Parents can avail of health services and attend health classes to learn more about essential health practices. Local health

workers also set up a day care and play area with educational toys, books and art supplies to keep younger children occupied while their parents were going around.

Behind the fun and festive setting of the health fests is the work of many people. The program brings together the private and public sectors in order to bring basic health care services to the people. The local governments, provincial health office and barangay health workers all pool together in a *bayanihan*-type effort to deliver health services.

Along with the health promotion activities, the local health office, civic society groups and charitable organizations are mobilized to provide complementary health services. Doctors, nurses and dentists from local medical and dental societies volunteered their services for outreach programs in different provinces, while provincial health workers devoted their day to help deliver vaccines and distribute medicines. Generous partners have also donated medicines and health kits for the beneficiaries during the events.

Local health workers did their share by teaching the participating men and women basic health concepts and practices using job aids for health classes on maternal health, child health and family planning. The conduction of health education classes and entertain-educate activities on health seeking practices makes the project even more beneficial, while being fun and exciting for students from nearby schools and universities to participate in.

The "Health on Wheels" concept aims to increase awareness on practices related

"No One is Left Behind: We Are All Drivers in this Journey to Health"



to maternal and child health and nutrition with the main message of "No One is Left Behind: We Are All Drivers in this Journey to Health," or in the vernacular, "Walang Iwanan sa Bihang Kalusugan."

According to Health Secretary Enrilda Oña, "The bus is an effective tool to deliver the health messages and for residents to come to the area."

The mobile health caravan first began its journey in March 2011 in Cagayan, Tarlac, where it serviced more than 1,000 Aetas, mostly women and children, on safe motherhood and child health and nutrition.

Since its launch in 2011, the bus has traveled to 28 areas in Luzon, the Visayas and Mindanao, directly serving over 53,000 people. LBK aims to journey to even more areas to deliver health services and spread their message.

For more information on where the health caravan is heading next, visit Lakbay Buhay Kalusugan on Facebook.

info@enrich.com.ph
www.enrich.com.ph

Steps + Technique in Writing S&H/Technology Feature

Eye
catching
headline/
title

**“Superman of
Motherhood
and Childhood”**

Nene is a cheerful child with no idea of what are the things outside her world. At the age of 14, she already goes to a menstrual cycle, aware of what it is, still she's playing outside. She's in love with a 16 year-old guy in their neighborhood and so things got rumbled, until she noticed that her menstrual cycle stopped, with her parents noticing it too, they confirmed that Nene is pregnant. At the age of 15, Nene gave birth to her child with her life as a toll.

Pag-ibig, Paminindigan, Panangyutan

Ang pag-ibig ay isang pangyayari ng pagmamahal.

Gabriel Soriano

Gay Friend

Ang PMA

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Robert Mongiel

Gay Friend

Ang PMA

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Katorse

ABS CBN

Nene, is not only one with case like this. More than 4,000 women die from childbirth each year with 40,000 newborns' lives taken concluding for the government to state that an average of one woman and nine newborns die every two hours.

Introduction (opening paragraph)

Are these evident?

- use catchy beginning/novelty
- start with the S&H/T issue or problem
- narration (character)
- examples
- figures/numbers

What did the government do?

Government launched “Lakbay Buhay Kalusugan Campaign” with National Center for Healthformation and assistance from USA Agency for International Development (USAID) that will help promote health Education on different places in the Philippines.

Steps+Technique in Writing S&H Feature

Body
(provide
questions)

- **Search for solution/s**

What was its purpose?

“Lakbay Buhay Kalusugan Campaign” has the purpose of; promoting Universal Health Care; model public-private partnership in health promotion and service delivery, urging individuals to have a care-seeking behaviors and demand for quality health care services and securing the commitment of local media in making people participate by creating stories. Not only this is their purpose, they also promote safe motherhood and childbirth.

Who are the target of this campaign?

“Lakbay Buhay kalusugan campaign targets generally different people dividing into two; primary which is composed of men and women with ages 19-49 and secondary composed of local leaders, health officials, health service providers, local media, private sectors and civic organizations. They also target different locations nationwide.

Steps+Technique in Writing S&H Feature



Body

- Elaboration of facts

With “Lakbay Buhay Kalusugan Campaign” on the run, cases like Nene’s might still be diminished, arising hope for the newborns to witness the beauty of the world and taste the delicious tomorrow of their future lives.

Conclusion (closing paragraph)

Are these evident?

- reiterate beginning
- give conclusion
- recommendation

Note: Unedited copy

1st Place – *Science and Health Writing*
Regional Schools Press Conference 2013

John Gil Panotes

Coach: Lovella B. Avellana

Moreno Integrated School
Division of Camarines Norte



Republic of the Philippines

Department of Science and Technology

Advanced Science and Technology Institute

Philippine Standard Time
Thursday, September 12, 2024, 6:00:02 PM

YOU ARE HERE: COMMUNICATIONS ARTICLES & PROJECTS > NOT SCIENCE FICTION: PH MARKS PLAC...

Not Science Fiction: PH Marks Place in Space with Continuous R&D Pursuit

17 Dec 2019 9:22 PM

By Corp Comm

DOST-ASTI > Communications > News Articles >



Photo Credits: STAMINA4Space / PHL Microsoft Facebook Page

DIWATA-1: A Beacon of Hope

In Philippine mythology, "diwatas" are mythological figures that are well known for being avatars of nature. They are known as an active and a compelling force which may either bring good or evil, a blessing or a curse. These mythological creatures have appeared in a lot of stories we have heard from our childhood days, and the concept of "diwatas" appearing to save and protect a person in distress is prevalent in these tales.

This idea of having a rescuer and a protector was instilled in the minds of the Filipinos, and so this idea, perhaps, was one of the greatest inspiration of the Philippine scientists and engineers to construct and materialize the concept. Thus, DIWATA-1, the Philippine's first microsatellite has been built to undertake scientific earth observation missions related to weather observation, environmental monitoring, and most specially, disaster risk management.

On November 8, 2013, Filipinos were bombarded by the teeth of typhoon Yolanda. Millions of Filipinos were affected by its wrath. Typhoon Yolanda hit the land of Tacloban which caused 4,015 deaths and left millions of Warays homeless.

Just after three years of this tragic event, the microsatellite DIWATA-1 was launched on March 23, 2016. The microsatellite will help the country to have a close monitoring of weather observations, thus reducing the risk of natural disasters and calamities.

Filipinos may not want to remember this unfortunate event, but we have to. This is part of our history and we should learn from it. After that, Filipinos still remain hopeful to revive what were lost. DIWATA-1 served as a beacon of hope, not just to those who were affected, but to the whole country as well, so that the deadly occurrence will not happen again.

Salmonella

NSPC 2018 Dumaguete City

Salmonella species are intracellular pathogens,^[6] of which certain serotypes cause illness such as salmonellosis. **Most infections are due to the ingestion of food contaminated by feces.**

Typhoidal *Salmonella* serotypes can only be transferred between humans and can cause foodborne illness as well as typhoid and paratyphoid fever. Typhoid fever is caused by typhoidal *Salmonella* invading the bloodstream, as well as spreading throughout the body, invading organs, and secreting endotoxins (the septic form). This can lead to life-threatening hypovolemic shock and septic shock, and requires intensive care including antibiotics.

Relevant?

Connect?



RSPC

2024

NEWS

ECOSYSTEMS

Noise pollution can harm birds even before they hatch

Exposing zebra finch eggs and hatchlings to traffic sounds had lifelong health impacts



Noise Pollution Irritates the Hatching Process of a Bird 1st

In a world full of lovely animals, humans unexpectedly know that ~~it~~ ⁱⁿ some situations can cause and harm their birth to their babies.

As birds ~~see~~ tweet in a morning sunrise, it brings a soothing sound to our ears. Yet, a pollution irritates them, causing a ~~delat~~ delay in their hatching process.

We often hear noise, especially coming from transportations such as jeepneys, cars, and trucks. Little ~~didn't~~ we know that animals such as birds and zebras, harmfully affects their process of giving birth, according to a new research.

From Sooth to Noise

Birds tweeting, bring~~s~~ such a good vibee~~s~~ once we hear it. However, we exchange irritating sounds to them, sometimes caused by a traffic.

A behavioral ecologist at Deakin University in Geelong, Australia, Mylene Mariette said, "We were really suprised."

"Not just because the effects were strong, but they lasted a long time", Mariette added.

Traffic Noise Causing a ^{Quiet} ~~Macro~~ Impact

Noise had ~~1~~ been a perpetual challenge to many people. Some people are sleeping ~~ins~~ peacefully inside their house until they hear a transportation, coming up with a bang that causes

them to have a delayed sleep. Similar to birds when they hatch, ~~it~~ ~~so~~ noise pollution harms them by having a direct exposure to the sound.

Also According to the ~~res~~ researchers, more noise pollution results to a more pervasive threat than they actually thought.

Future Directions Towards ~~to~~ A Better Treatment

To ensure the safety of the birds, nestlings were grouped, away from their parents — also because of the sound treatment to conduct by ~~the~~ the researchers.

Moreover, Moriette and her team conducted an operation due to the fact that they want to know what will happen if they exposed the animals to a ~~so~~ noisy environment.

After the study, Mariette's team found out that 12 days after the hatching process, the birds were 14.5 percent lighter.

Additionally, telomeres — DNA sequences at the chromosomes, decreased 38 to 46 percent on average, which basically means the psychological stress of the animals were higher than average.

Without ^{species}~~animals~~ and if they were not able to hatch their babies, this world will be filled with animal extinction.

Birds tweeting ~~at~~ right after you wake up sounds soothing. That's why people have the choice whether if they will neglect the animals, resulting a

delay in its hatching process. So next time, when you hear an irritating traffic on highways, think of the animals that harms their birth to their babies.



Republic of the Philippines
Department of Education
REGION V - BICOL

1st

INFORMATION SHEET

Event: Science and Technology Writing

Level (Elementary or Secondary): Elementary

Medium (English or Filipino): English

Student's Full Name: Alessandra M. Curba

Sex (Male or Female): Female Grade Level: 6

School: Calabanga Central Division Pilot School Division: Camarines Sur

Name of School Paper: Pilot Light

Name of School Paper Adviser/Coach: Suzanne F. Dulce

Name of School Principal: Joel J. Claron

Contestant
Number

03

Bagong Pag-aaral, Nagpakita na Naaapektuhan ng Maingay na Paligid ang Kalusugan ng mga Ibon ⁽²⁴⁾

1st

Hindi lang ang mga tao ang naapektuhan ng polusyon sa ingay. Naaapektuhan rin nito ang mga hayop tulad ng mga ibon. Batay sa isang bagong pag-aaral, kahit hindi pa lumalabas ang ibon mula sa kaniyang itlog, naapektuhan na ng polusyon sa ingay ang kanilang kalusugan at reproduksyon.

Kapag maingay ang paligid ng isang ibon na nasa loob pa ng itlog o malapit nang mapisa nagkakaroon o nakararanas sila ng mga detrimental effects, lalong-lalo na kung kahit nasa labas na sila ng itlog ay nasa maingay na paligid pa rin sila.

Ang mga itlog na nakararanas o nasa isang maingay na lugar ay hindi madalas na pumipisa kaysa sa mga itlog na nakararanas ng isang paligid na puno ng magandang awitin na pumipisa ng mas madalas. Labing dalawang araw pagkatapos pumisa, ang timbang ng mga ibon na nakararanas ng maingay na paligid ay 14.5 porsyento na mas magaan kaysa sa karaniwan.

"Talagang nasorpresa kami," ayon kay Mylene Mariette, isang behavioral ecologist sa Deakin University sa Geelong, Australia. "Hindi lang dahil malakas ang epekto^{ng}, tumatagal rin ito ng matagal na panahon."

Ang epekto nito ay tumatagal hanggang sa pagtanda. Ang mga Zebra finch eggs at nestlings na exposed sa maingay na paligid ay nakaranas ng iba-iba at panghabangbuhay na banta sa kanilang kalusugan at reproduksyon.

Ang telomeres, ang repetitive sequence ng DNA sa tips ng chromosomes, ay 38 hanggang 46 porsyento na mas maikli para sa mga ibon na nakaranas ng maingay na paligid. Ang maiikling telomeres ay nagpapahiwatig ng mas mataas na physiological stress.

Batay sa pag-aaral na ito, ang mga ibon o mga itlog na nakaranas ng maingay na paligid ay maaaring magkaroon ng maitling buhay dahil sa stress na ibinibigay nito sa kanila. Hindi lang mga ibon ang naaapektuhan ng maingay na paligid, marami pang mga hayop ang naapektuhan.



Republic of the Philippines
Department of Education
REGION V - BICOL

1st

INFORMATION SHEET

Event: Science and Technology Writing
Level (Elementary or Secondary): Elementary
Medium (English or Filipino): Filipino
Student's Full Name: Mary Princess C. Rodriguez
Sex (Male or Female): Female Grade Level: Grade 6
School: Tabaco South Central Elem. School Division: Tabaco City
Name of School Paper: The Southern Light
Name of School Paper Adviser/Coach: Lirio Lourdes Springael
Name of School Principal: Josefa C. Clariño

Contestant
Number

24

RSPC 2024

Home » Science » Reinventing Glass: A Breakthrough in Atomic Stability

SCIENCE

Reinventing Glass: A Breakthrough in Atomic Stability

BY OAK RIDGE NATIONAL LABORATORY — FEBRUARY 22, 2024

NO COMMENTS

4 MINS READ



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Headline:

**US, Ph scientists shed light on
alternative properties of silicate
glass**

Gabriel V. Ibis

Introduction / Lead:

Atomic ring structures affect glass performance, said researchers from the University of California - Los Angeles (UCLA), University of Oxford, Corning Incorporated, and Oak Ridge National Laboratory (ORNL) in a paper published last February 22, 2024.

Said Corning researchers, "the stability of ring of atoms in glass can help [predict] the performance [of it]." While atoms are small particles unobservable to the naked eye, it provides insight into the durability, and useability, of glass.



LOOK: A Bicolano engineer made a thermal insulating powder that can be applied as coating or paint, which can reduce indoor temperatures by 30 percent to 60 percent.

See link to story in the comments.

| via Jessica Calinog, GMA Regional TV Balitang Bicolandia

#GMARegionalTV

#LocalNewsMatters

#GMAIntegratedNews



Relevant issue?

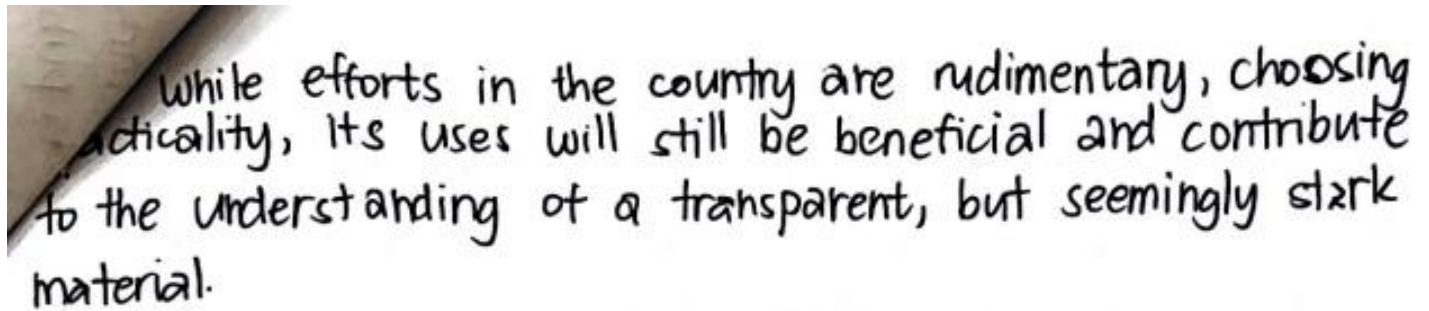
Connect?

In April 2024, a Nagueño engineer shared with GMA Regional News of their findings on a powder applied to walls of structures. According to them, the powder, made from silica, was able to minimize temperatures upward of 60%.

Meanwhile, other engineers from the area have colluded with the findings, with one stating that they have used it in their projects more than once.

As of the writing, the innovation is awaiting for a patent from the Intellectual Property Office of the Philippines, which is processed in 120 days.

Conclusion:

A photograph of a piece of paper with handwritten text in black ink. The text is written in a cursive, slightly slanted script. The paper is slightly wrinkled and has a light beige color. The text is written in a single paragraph and is the main focus of the image.

While efforts in the country are rudimentary, choosing practicality, its uses will still be beneficial and contribute to the understanding of a transparent, but seemingly stark material.

While research is one thing, breaking the barriers between science and the people is the aim. Through a discovery thousand of miles away, this, does not stop at being a dream, but shatters the barrier towards reality.

NSPC 2024

ABSTRACTS:

#1 Stable carbon isotope ratio analysis of Philippine honeys for the determination of adulteration with C4 sugars

#2 Portable method for the rapid detection of honey adulterated with C4 sugar using Handheld X-Ray Fluorescence Spectrometry (hXRF) and logistic regression

+ Introduction (in 3 paragraphs)

Headline:

BEE PERFECT:

**UP scientists find "sweeter"
way in honey production**

Gabriel V. Ibis

REGION V

CAMARINES
NORTE

Vinzons Pilot High
School

Gabriel V. Ibis



Certificate of Recognition

GABRIEL V. IBIS

Recognized in service to
service and outstanding achievement during
2024 National In-School Press Conference (NISPC)
held at Marikina City, Marikina City from July 9 to 10, 2024
(1st and 2nd Day of July 9-10 at Marikina City, Marikina City)

GINA G. GERONZO, PhD
Commissioner for Curriculum and Teaching

S&T Writing Winners



Kaye Angela Pabico
(2014)



Floriane T. Taruc
(2016)



Juliana Cate Allaga
(2019)

NSPC 2023

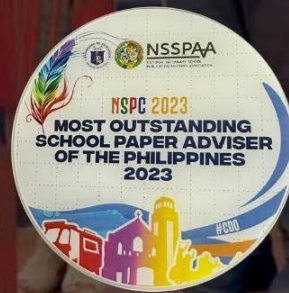
Cagayan De Oro City

July 19, 2023



Congratulations!

Al Bambino M. Camino **Most Outstanding School Paper** **Adviser of the Philippines 2023** **Secondary Level**



Bicol Region (V)
Vinzons Pilot High School
Camarines Norte

Thank
you

