

# PWWF Philippines

Physics Meetup: Creating Collaborative Spaces for Filipino Physics Learners and International Scientists' Encounters



The Abdus Salam International Centre for Theoretical Physics  
Physics Without Frontiers



IAEA



# PWF Philippines

>50 Volunteers

25 Partner Organizations



**UNBOXING QUANTUM TECHNOLOGIES**

**DR. JACQUILINE ROMERO**  
UNIVERSITY OF QUEENSLAND, AUSTRALIA

World-renowned STEM leader and quantum physicist, expert in encoding information in photons

JANUARY 15, 2021 (FRIDAY)  
1:00 - 2:30 PM (PHST)

Register at [bit.ly/physicsmeetup15](http://bit.ly/physicsmeetup15).

**THE DARK MATTER AND YOU!**

**PROF. THOMAS BROADHURST**  
NASA's Exceptional Achievement Honoree for his contributions to the Hubble Space Telescope - Advanced Camera Mission

October 14, 2021

**FORMATION OF GIANT PLANET SATELLITES**

MARCH 20, 2021 (SATURDAY)  
8:00 - 9:30 AM (PHST)

**PROF. KONSTANTIN BATYGIN**  
CALIFORNIA INSTITUTE OF TECHNOLOGY, USA

"The Man Whose Models Revealed A Possible 9th Planet in Our Solar System" - Popular Science's Brilliant 10 People on the Planet

"The Next Physics Rock Star" - Forbes 30 Under 30 Young Scientists Who Are Changing the World

Mobile data assistance is available for students on a first-come, first-served basis.

**THE INFRARED UNIVERSE BEYOND HUBBLE: THE JAMES WEBB SPACE TELESCOPE IN 2022**

September 1, 2022 (Thursday), 7:00 - 8:30 AM (PhST) via Zoom

**PROF. ROGIER WINDHORST**  
NASA Interdisciplinary Scientist for the James Webb Space Telescope

**TICK, TICK, TICK PULSATING STAR, HOW WE WONDER WHAT YOU ARE**

**DAME JOCELYN BELL BURNELL**  
Astrophysicist and Breakthrough Prize in Fundamental Physics Laureate for the discovery of radio pulsars

**FROM QUANTUM FOUNDATIONS TO QUANTUM TECHNOLOGY**

**PROF. JACOB FRIIS SHERSON**  
Quantum Physicist, and Founder and Director for Hybrid Intelligence and ScienceAtHome.org

September 17, 2022 (Monday), 3:30 - 5:00 PM (PhST)

What we do:

# Provide opportunities for students especially in rural schools to have access to science through international scientists' encounters and exposure to different career opportunities.

**DR. JESSICA WA...**

September 2, 2022 (Friday), 4:30 - 6:00 PM

**ADVENTURES IN PHYSICS AND ANALYTICS**

**DR. REINABELLE REYES**

Reyes is a Filipina scientist, educator, and public speaker. She is a rising scientist, and has been called "The Filipina who is right" after her work confirming Albert Einstein's theory of relativity on a cosmic scale in 2010 as part of her Ph.D. Upon returning to the Philippines, she pursued a career in science and worked in companies including Smart Communications, UnitedHealth Group R&D, and Ayala Corporation. She serves as Practice Director for data science and analytics at UnitedHealth Group R&D, and Ayala Corporation. She obtained her B.S. Physics (Summa Cum Laude) from the Ateneo de Manila University, Diploma in High Energy Physics from the ICTP- Abdus Salam International Center for Theoretical Physics in Trieste, Italy, and Ph.D. in Astrophysics from Princeton University in the United States.

REGISTER FOR FREE: <https://bit.ly/physicsmeetup08>

September 17, 2022 (Monday), 3:30 - 5:00 PM (PhST)

**MOVING THE JOYSTICK**

**WHAT IT REALLY TAKES TO OPERATE A ROVER ON MARS**

**ENGR. GREGORIO VILLAR**

Mars 2020 Mission: The Perseverance Rover Landing Entry, Descent, and Landing Systems Engineer  
NASA's Jet Propulsion Laboratory, USA

April 10, 2021, Saturday, 8:00 - 10:00 AM (PhST)

Register at [bit.ly/physicsmeetup18](http://bit.ly/physicsmeetup18). Limited seats available on Zoom.

**THE TRAJECTORY OF BREAKING BARRIERS**

**TIERA FLETCHER**

Aerospace Engineer at Boeing working on the largest rocket ever created by NASA to put humans on Mars and named an "Awesome Woman of 2017"

FEBRUARY 27, 2021, SATURDAY, 8:00-9:30 AM (PHST)

MOBILE DATA ASSISTANCE IS AVAILABLE FOR STUDENTS ON A FIRST-COME, FIRST-SERVED BASIS.

**PHYSICS MEETUP ANNIVERSARY LECTURE**

**THE PHYSICS OF FLIGHT CONTINUED**

**PROF. ROGER FREEDMAN**  
UNIVERSITY OF CALIFORNIA, USA

Author of several best-selling physics textbooks, including the most widely-used *University Physics*

June 30, 2021, Wednesday, 8:30 - 10:30 AM (PhST)

Register at [bit.ly/physicsmeetup20](http://bit.ly/physicsmeetup20). Limited seats available on Zoom.

**NOBEL LAUREATE IN PHYSICS 2018**

**PROF. DONNA STRICKLAND**  
UNIVERSITY OF WATERLOO, CANADA

September 17, 2021, Friday, 8:00 - 9:30 PM (PhST)

Register at [bit.ly/PMxNobel](http://bit.ly/PMxNobel). Limited seats are available on Zoom.

Mobile load assistance is available for students on a first-come, first-served basis.

**PHYSICS MEETUP ANNIVERSARY LECTURE**

**THE PHYSICS OF FLIGHT**

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Author of several best-selling physics textbooks, including the most widely used *University Physics*

**Applied & Interdisciplinary Physics:**

**Biophysics and the Olympic Games**

DECEMBER 1, 2021  
WEDNESDAY  
10:00 - 11:30 AM (UK)  
6:00 - 7:30 PM (PHST)  
Via Zoom and Facebook Live

Register now! Limited seats are available on Zoom.

**Louise Shanahan**  
Biophysicist and Olympic Athlete  
University of Cambridge, United Kingdom

MOBILE DATA ASSISTANCE IS AVAILABLE FOR STUDENTS ON A FIRST-COME, FIRST-SERVED BASIS.

# Participants

**14**

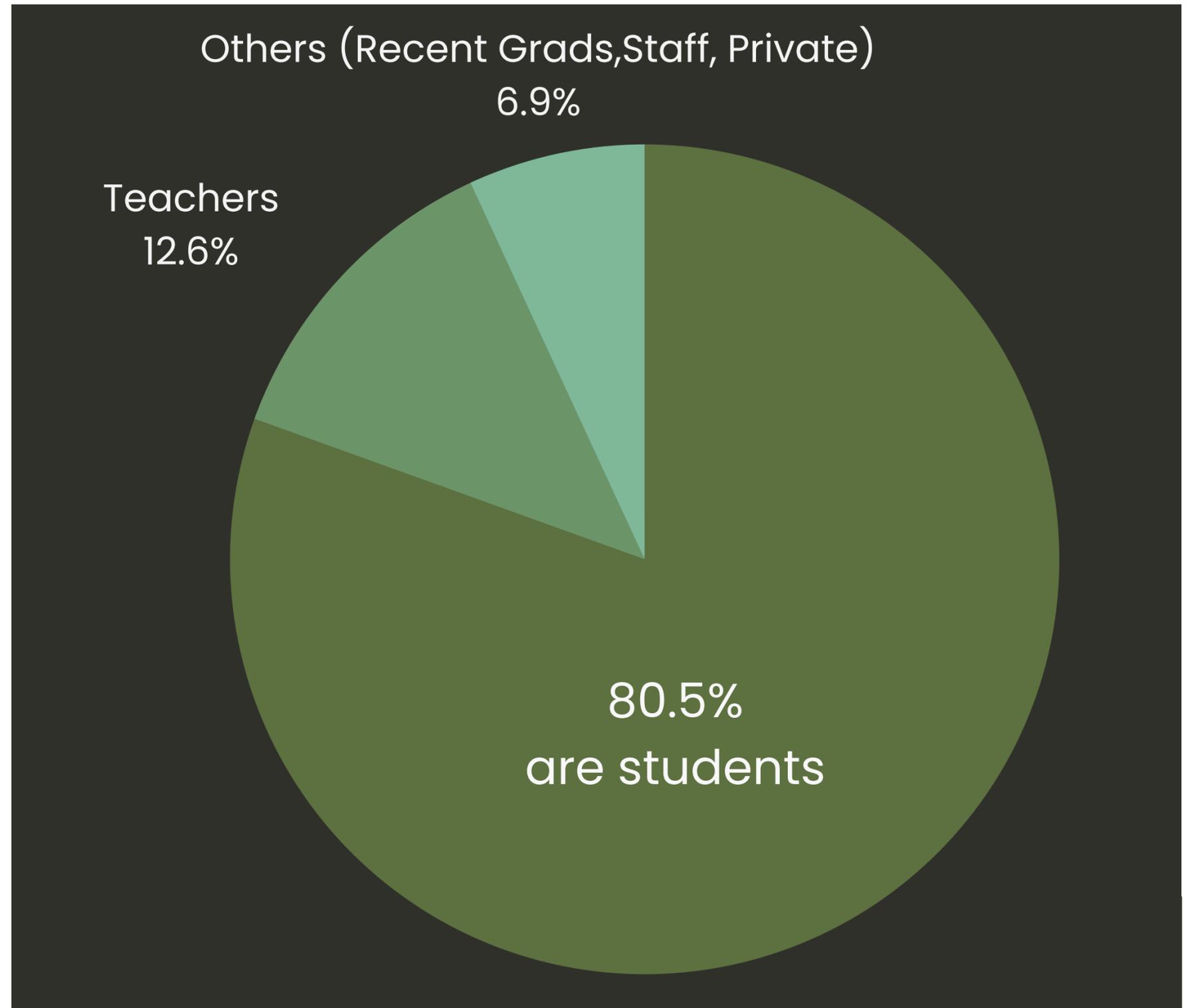
International physics icons

**6,610**

Participants on Zoom

**87.2K**

Audience reached on  
Facebook live-stream



# Participants on Zoom

**Most of the opportunities are concentrated in the National Capital Region**

**Luzon:** University of the Philippines – Diliman, Central Luzon State University, Mapua University, and Rizal Technological University

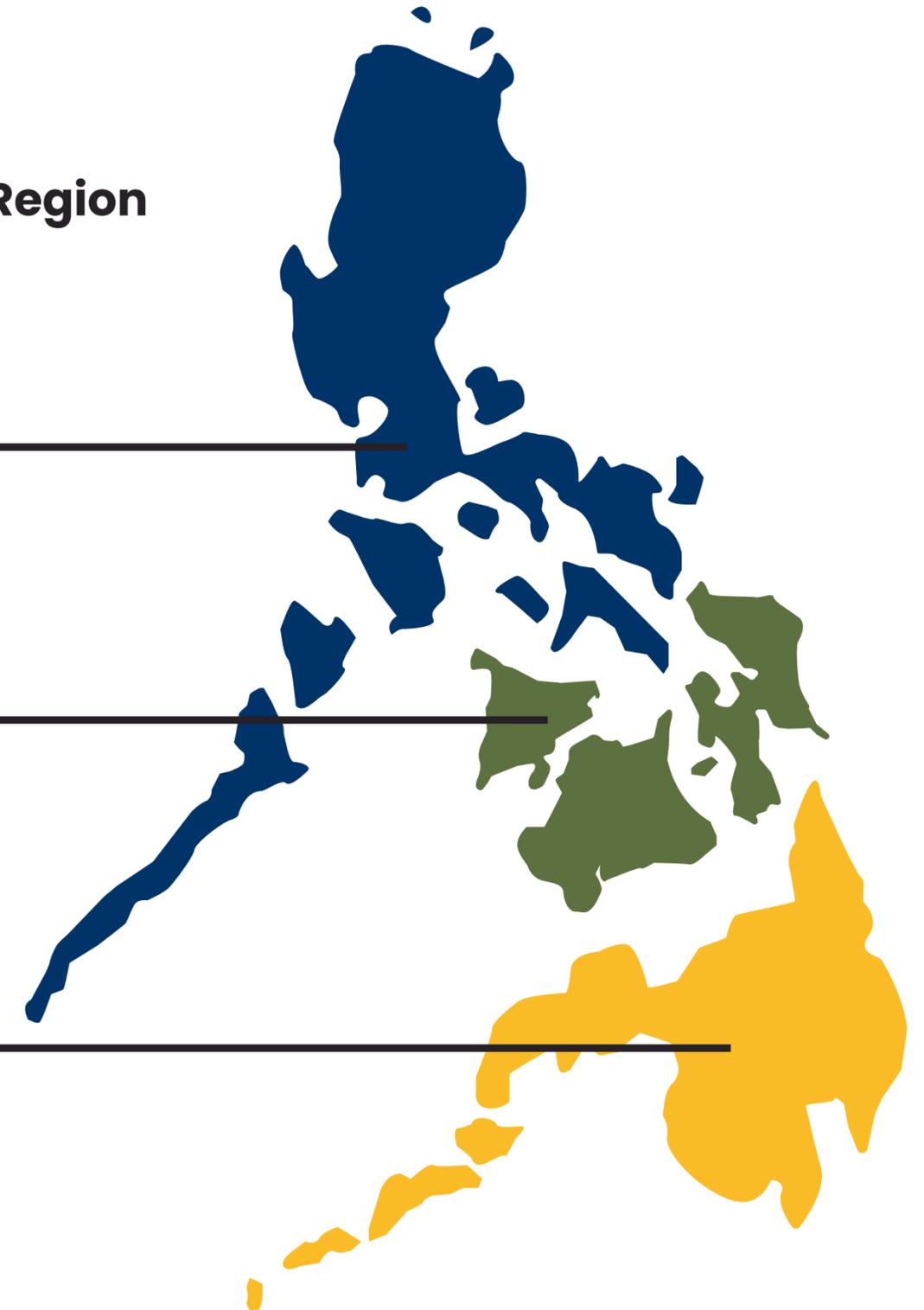
**Visayas:** Central and Eastern regions

**Mindanao:** Northern Mindanao, the CARAGA region, Western Mindanao and Bangsamoro Autonomous Region in Muslim Mindanao, also from Datu Igwas Indigenous Peoples Integrated School (Kidapawan, North Cotabato)

26%

5%

69%





**1,200**

Euros received from ICTP Physics Without Frontiers as grant for mobile data subsidy to students

**1,242**

Students received mobile data subsidy to access the internet during the sessions

The accessibility of this meetup is a dream come true with a crisis going on. It's warming to think that there is an organization that hasn't given up hope in order to throw inspiration to people and mold them to become the next scientist that would contribute effort to the advancement of humanity. I may not have the capability to exchange something for now but with this, I will try my best to hone my ability in Physics to make this sponsorship worth it. I thank all who are involved.

**Physics student from Mindanao**

# Streaming venues in schools



My physics journey comes with its share of doubts, and I came to a point where I was discouraged and unmotivated. I saw a Physics Meetup post on Facebook and joined out of curiosity, not expecting to get anything out of it. But during the Meetup, I found the inspiration I could not quite explain. Since then, I have been eager to join the following sessions. For that, I am thankful.

**David Paul Jinayon**

Special Science Teacher I – Physics  
Philippine Science High School – CARAGA Region Campus



In high school, I volunteered for Physics Meetup. After attending numerous sessions, not only did I get to listen to the lectures of iconic scientists, but I also got to converse and interact with them (and for some, I even asked for advice). I'm now in college, gratefully bringing with me the experiences Physics Meetup opened my doors to such as documenting, responding, and emceeding for the scientists that I also strive to be.

**Julianne Marc Tamayo**

Astrophysics Student  
University of California – San Diego, USA  
From Bacolod City National High School  
Negros Occidental, Philippines



Events such as those organized by the Physics Meetup (PWF Philippines) team should be recognized, applauded, replicated, and intensified. We need to make science reachable and relevant to the Filipino people, especially to the youth.

**Jason Tajores**

Physics Instructor  
Ateneo de Davao Univ.



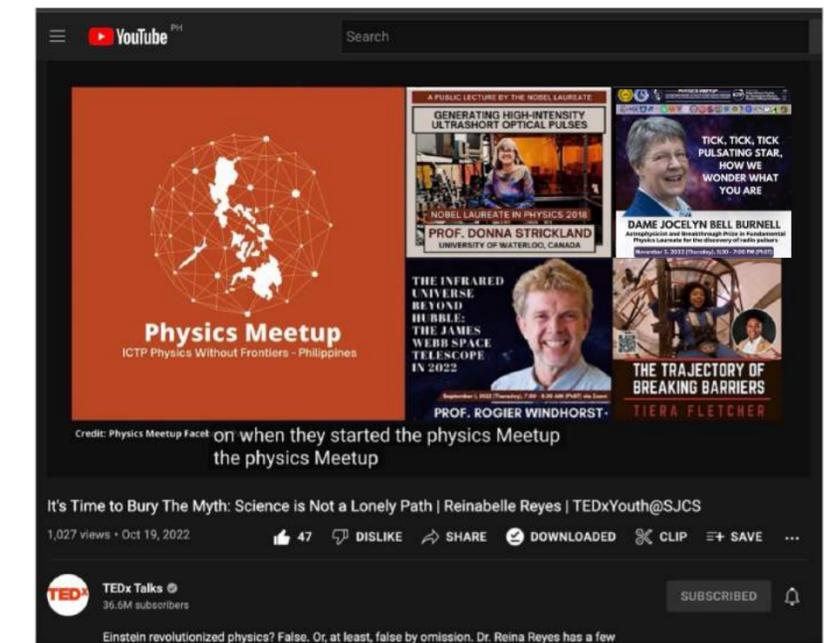
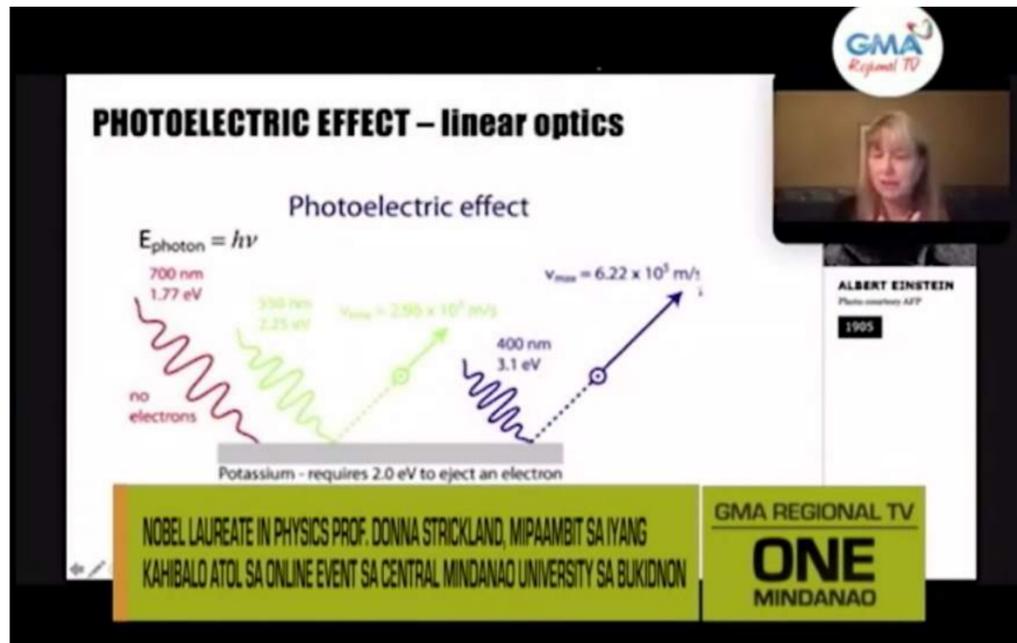
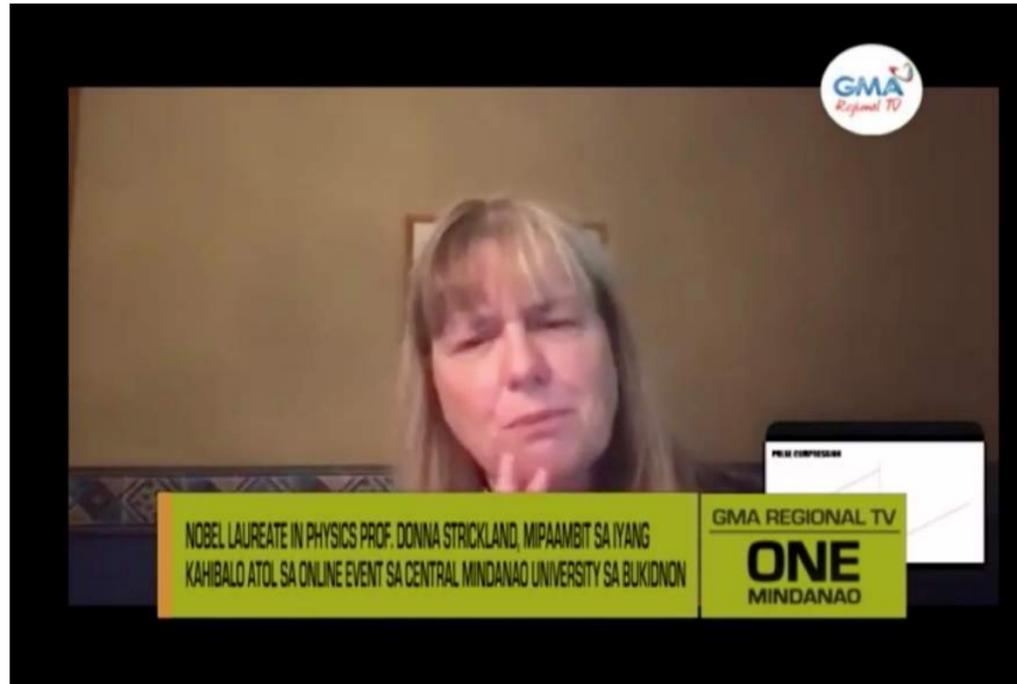
It always gives me excitement whenever I join Physics Meetup sessions. I always look forward to listening to the speakers because before, I only got to hear them on the news. Some of them are mentioned in books that I have read or in magazines, and some are authors. Now, with Physics Meetup, I get not just to listen but meet them as well!

**Cherry Ponteras**

Physics Teacher in High School  
Malitbog Agricultural High School



# Media Exposure (National TV News/ TEDx Talk)





# Next Steps

- Create posters about our guest scientists (research specialization, notable achievement) and distribute them to rural schools
- Partner with more STEM public high schools in the Philippines

## Website

<https://www.ictp.it/physics-without-frontiers/current-country-projects/philippines.aspx>

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## Social Media

@physicsmeetup