

PWWF Philippines

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



International Centre for Theoretical Physics
Physics Without Frontiers



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

PHYSICS MEETUP

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

PHYSICS MEETUP

FORMATION OF GIANT PLANET SATELLITES



PROF. KONSTANTIN BATYGIN
CALIFORNIA INSTITUTE OF TECHNOLOGY, USA

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

"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.

PHYSICS MEETUP

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



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

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

PHYSICS MEETUP

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

PHYSICS MEETUP

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 WANG

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 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>

October 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. Limited seats available on Zoom.

PHYSICS MEETUP ANNIVERSARY LECTURE

THE PHYSICS OF FLIGHT CONTINUED



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. 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. 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 CONTINUED



PROF. ROGER FREEDMAN
UNIVERSITY OF CALIFORNIA, USA

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

Applied & Interdisciplinary Physics:

Biophysics and the Olympic Games



LOUISE SHANAHAN
Biophysicist and Olympic Athlete
University of Cambridge, United Kingdom

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.

Participants

14

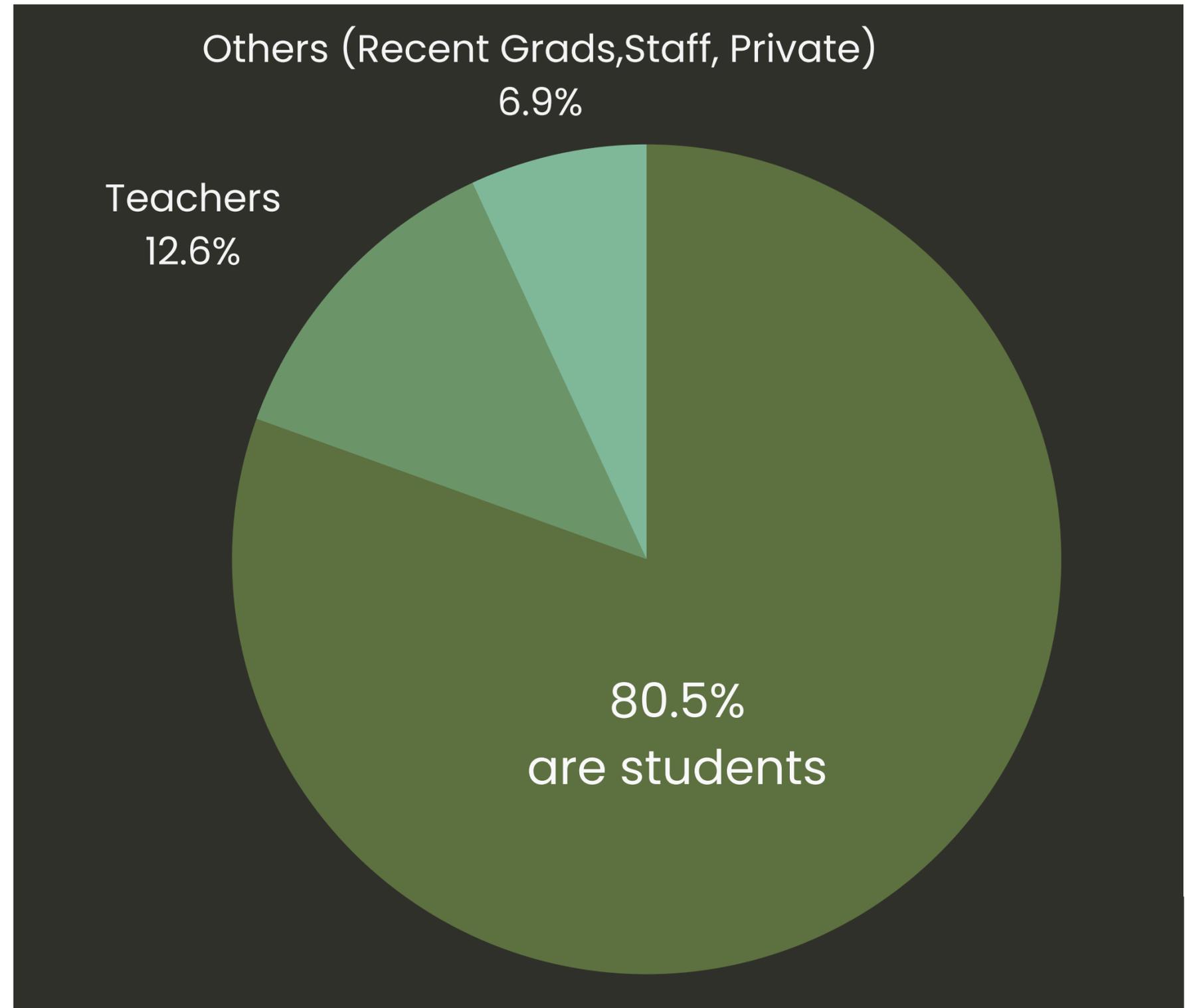
International physics icons

6,610

Participants on Zoom

87.2K

Audience reached on
Facebook live-stream



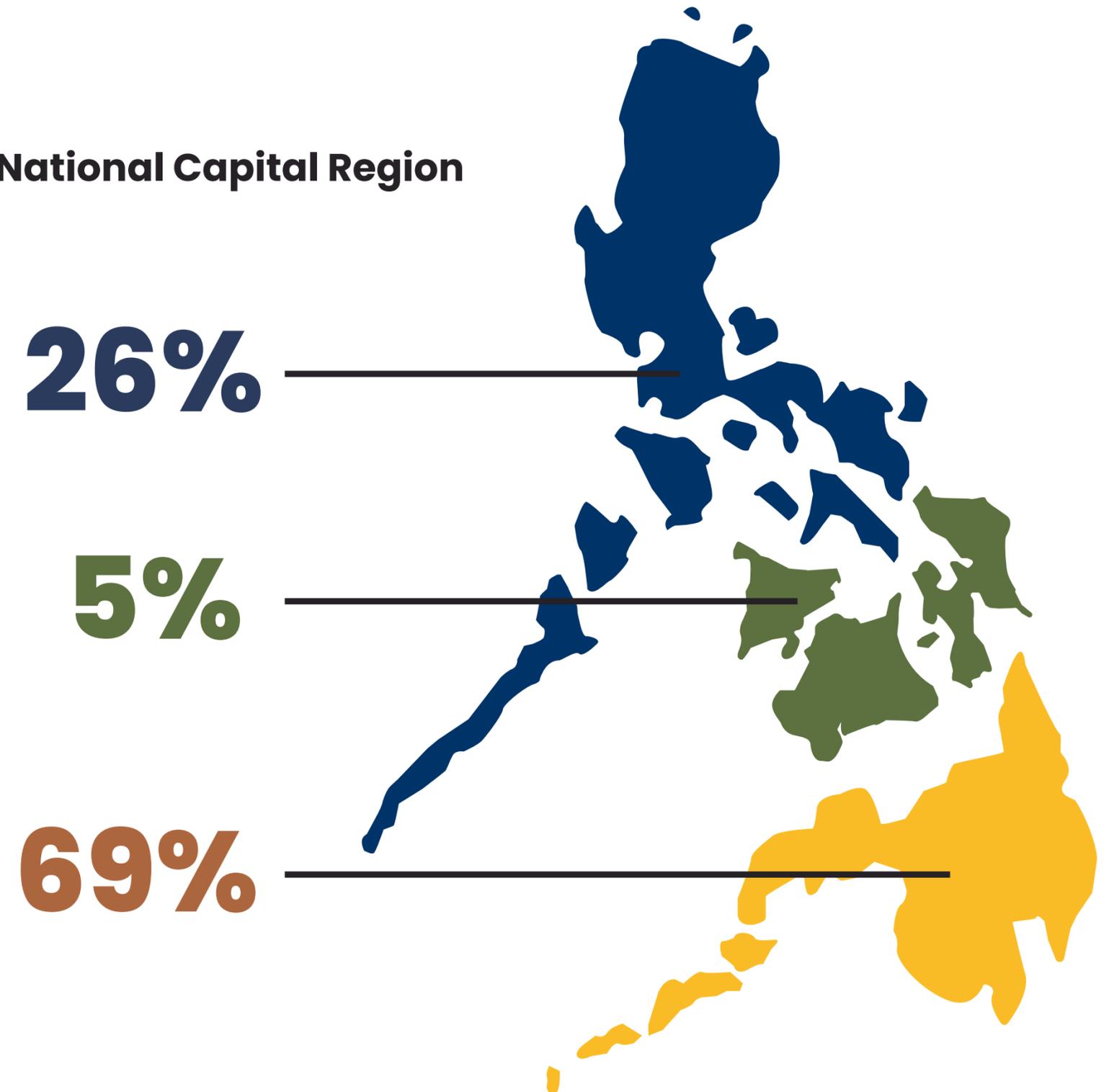
Participants on Zoom

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)





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.



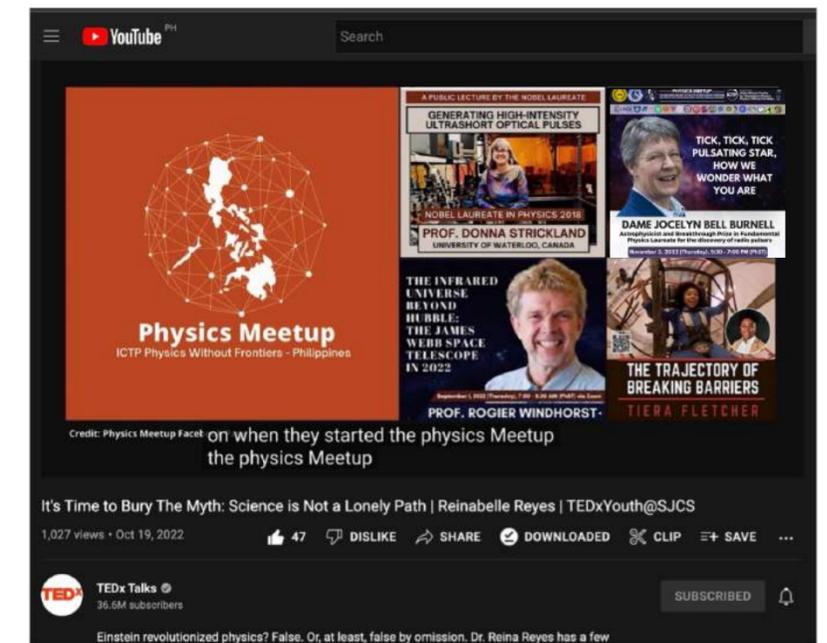
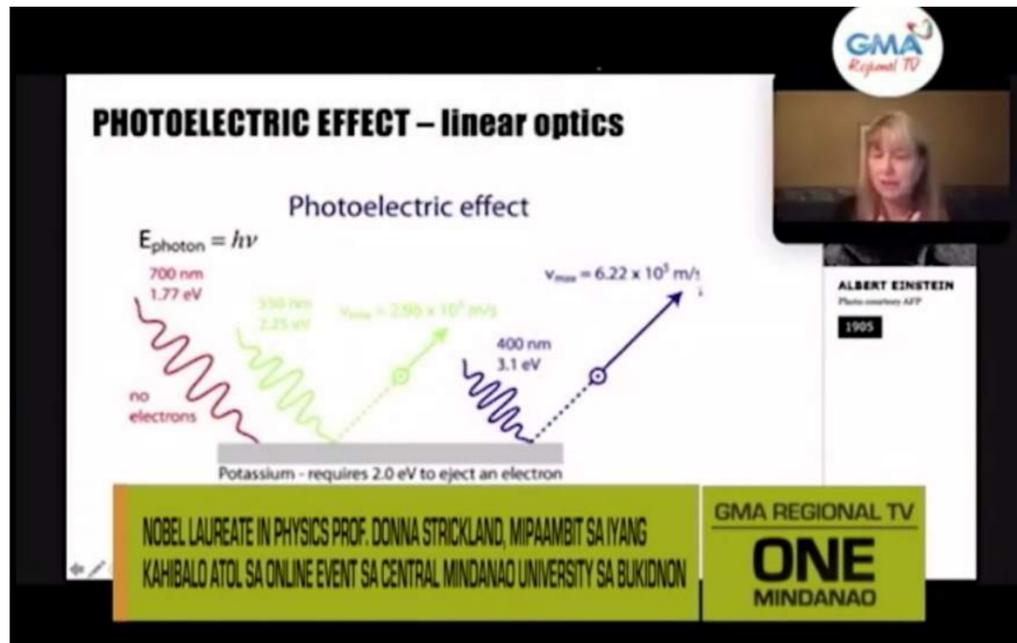
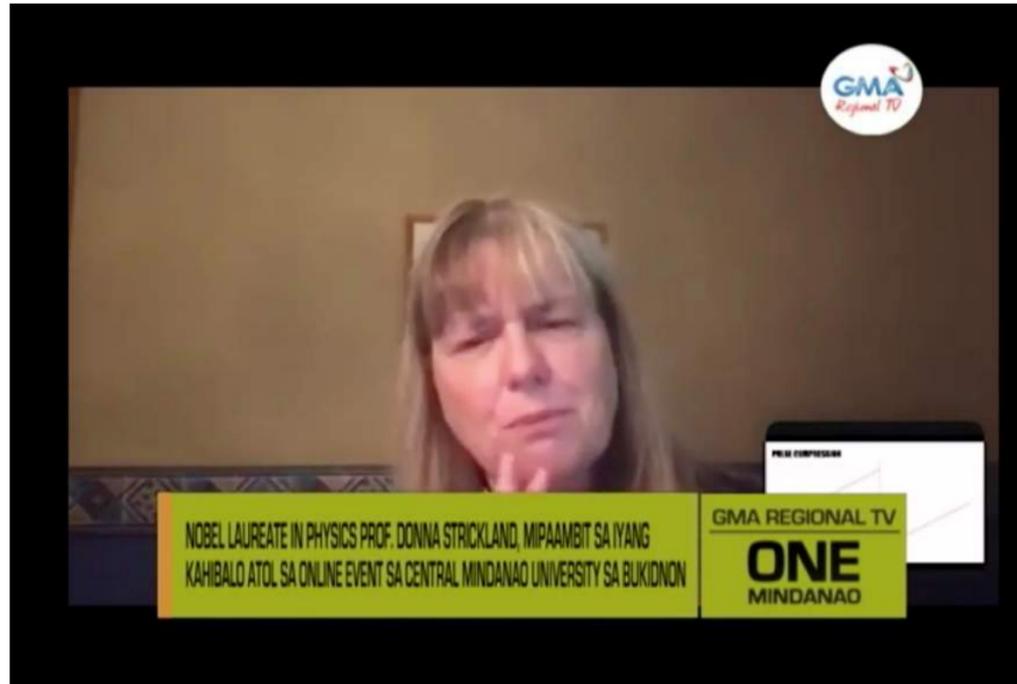
It always gives me excitement whenever I join Physics Meetup sessions. I always look forward to listening to the speakers because before, I only got to hear them on the news. Some of them are mentioned in books that I have read or in magazines, and some are authors. Now, with Physics Meetup, I get not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

Social Media

@physicsmeetup