



Republic of the Philippines  
**Department of Education**  
REGION III – CENTRAL LUZON  
SCHOOLS DIVISION OFFICE - SCIENCE CITY OF MUÑOZ

May 23, 2023

**SCHOOLS DIVISION MEMORANDUM**

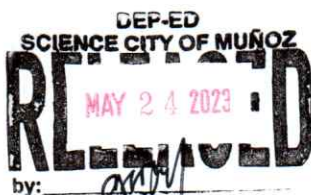
No. 219, s. 2023

**PARTICIPANTS TO SCIENCE COMMUNICATION FOR STEM EDUCATION  
WEBINAR**

To: Assistant Schools Division Superintendent  
Chief Education Supervisors  
Public Secondary School Heads (Main JHS/SHS)  
All Others Concerned

1. The Schools Division of Science City of Muñoz through the Curriculum Implementation Division in partnership with Ateneo De Manila University, Ateneo Center for Educational Development and The Head Foundation of Singapore will hold a webinar on Science Communication for STEM Education on June 14, 16, 21, 2023, 2:00-5:00 pm via zoom.
2. Enclosed are the names of the participants and the guidelines of the webinar.
3. For queries, please communicate with Nelie D. Sacman, PhD, Education Program Supervisor-Science through messenger and/ or cellphone number 0917-872-9345.
4. Immediate and wide dissemination of this Memorandum is earnestly desired.

  
**JOHANNA N. GERVACIO PhD, CESO V**  
Schools Division Superintendent



RCDG/CID/Science for STEM  
009/May 23, 2023

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DSCM-QMS-QMR-QSF-008 Rev.06 (03.23.23)



Certificate No. 50500731 QM15



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SCHOOLS DIVISION OFFICE - SCIENCE CITY OF MUÑOZ

**LIST OF SCIENCE TEACHERS THAT WILL PARTICIPATE IN THE TRAINING**

Name	Contact No.	Email Address	School
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8. CORPUZ, GINA FE	9067578349	<a href="mailto:ginafe.corpuz@deped.gov.ph">ginafe.corpuz@deped.gov.ph</a>	MNHS-JHS (Main)
9. MAZON, NILA	9169304575	<a href="mailto:nila.mazon@deped.gov.ph">nila.mazon@deped.gov.ph</a>	MNHS-JHS (Main)
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14. SANTOS, MARICOR V.	9070397435	<a href="mailto:maricor.santos@deped.gov.ph">maricor.santos@deped.gov.ph</a>	MNHS-JHS (Main)
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Chief ES-CID

Noted

JOHANNA N. GERVACIO PhD, CESO V  
Schools Division Superintendent



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ATENEUM DE MANILA UNIVERSITY  
ATENEUM CENTER FOR EDUCATIONAL DEVELOPMENT

22 May 2023

DR. JOHANNA N. GERVACIO  
Superintendent  
Science City of Muñoz

Dear Dr. Gervacio,

The HEAD Foundation, through the Ateneo Center for Educational Development (ACED), would like to invite Biology and Chemistry teachers from the Division of the Science City of Muñoz to attend a workshop entitled:

**Science Communication for STEM Education**

June 14, 16 and 21

2:00 – 5:00pm

Via Zoom

This virtual three-day workshop targeted at high school biology and chemistry educators in the Philippines will help participants pick up:

- Effective delivery techniques for science content that break down complexity of material
- Group facilitating skills in peer learning settings that promote students' ability to formulate and articulate thoughts and opinions
- Skills to leverage resources from media and technology to supplement textbook content and reinforce connection to real-world context

The workshop will be conducted entirely in English.

There will be both synchronous and asynchronous coursework for participants to complete. Take-home assignments should not exceed a total commitment of 4 hours over the workshop duration.

As a partner division of ACED, we have allotted **15 SLOTS for the division of the Science City of Muñoz**. Kindly take note of the following related to their participation:

- The participants are required to **attend all 3 training days** to earn their certificates.
- Participants must provide their details through this link <https://bit.ly/scicommsignupform> on or before May 24.

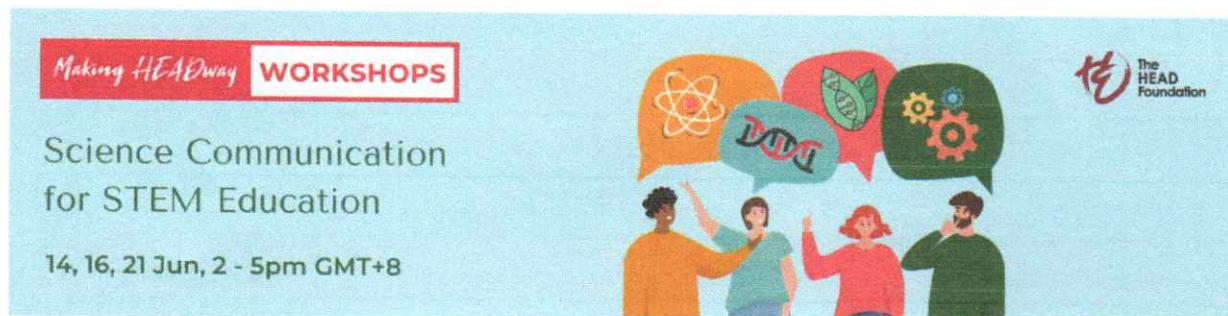
More information on the program is included as an **attachment to this letter**.

Please send the list of participants from your division to Mrs Amelia Dycoco [adycoco@ateneo.edu](mailto:adycoco@ateneo.edu) on or before May 24. You may reach her at 09175760036 for any questions.

Thank you very much!

*Ateneo de Manila University*

## Science Communication for STEM Education | Making HEADway Workshops Programme Brief



The HEAD Foundation will be conducting a workshop on **effective science communication for STEM educators in Southeast Asia**, in partnership with the Malaysian Science Communication Network (MySCN).

This virtual three-day workshop targeted at **high school biology and chemistry educators** in the Philippines will help participants pick up:

- Effective delivery techniques for science content that break down complexity of material
- Group facilitating skills in peer learning settings that promote students' ability to formulate and articulate thoughts and opinions
- Skills to leverage resources from media and technology to supplement textbook content and reinforce connection to real-world context

The workshop will be conducted entirely in English.

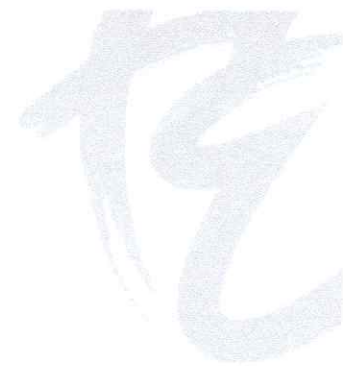
There will be both synchronous and asynchronous coursework for participants to complete. Take-home assignments should not exceed a total commitment of 4 hours over the workshop duration.

### Date & time:

14, 16 & 21 June, 2 – 5pm GMT+8

Via Zoom

***We invite applicants who are:***



- *Early to mid-career teachers (1-10 years of experience)*
- *Teaching biology and chemistry in high school*

Those interested can submit their application by clicking on this link or scanning the QR code:

<https://bit.ly/scicommsignupform>



A confirmation email will be sent to participants within 10 days of registration. In the event of over-subscription, participants will be selected on a first-come, first-served basis.

### **Receiving a Certificate of Completion**

This is a certificated workshop. Participants will only receive their certificate upon meeting the workshop criteria:

1. Fully attend and participate in all workshop sessions (attendance and participation will be noted)
2. Complete both pre- and post-workshop surveys by the due date
3. Complete all activities and assignments, and attain a passing grade on all assignments

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### **What is Science Communication?**

Science communication describes various communication strategies and mediums used to transmit science-related content, such as scientific concepts, methods, knowledge, and research, to non-expert audiences in an accessible, comprehensible, and useful way. However, teacher training in Southeast Asia rarely targets science communication skills, which hampers progress in science literacy and interest among K-12 students.

As STEM education remains one of the more difficult and abstract concepts to teach, most school-age learners need help with their basic understanding of this subject matter. Science communication strategies are thus crucial to STEM educators as it helps with the effective delivery of such technical knowledge in a more understandable way to their students.

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### Workshop Outline

- Conducted online in the course of three days over a week, with three hour sessions each.
- Coursework comprises of synchronous activities (discussions, exercises) and asynchronous tasks to be pursued within a designated timeframe.
- Participants must attend all live sessions and complete formative and summative tasks in order to receive a certificate of completion.
- Participation will rely on digital applications (LMS, document creation and submission, videoconferencing, interactive tools) so participants require a stable and conducive setup for online learning. **Active participation is required for receiving your Certificate of Completion.**

### Workshop Objectives

At the end of this **three-day** workshop, participants will pick up:

1. Effective delivery techniques for science content that break down complexity of material
  - Deriving analogies from complex concepts in science to strengthen connections
  - Crafting stories as an appealing vehicle for delivering complex concepts
  - Leveraging mental models for more effective representation and recall of complex concepts
2. Group facilitating skills in peer learning settings that promote students' ability to formulate and articulate thoughts and opinions
  - Emphasising stimulating questions as active learning prompts
  - Leading effective reflection moments to consolidate learning
  - Facilitating productive peer-to-peer discussions as a form of social learning
3. Leveraging resources from media and technology to supplement textbook content and reinforce connection to real-world context
  - Profiling audience (students) for interests, values, strengths, challenges to better communicate in context



**The  
HEAD  
Foundation**



- Curating strategic resources to leverage when helping students experience science learning beyond the textbook
- Setting an action plan to systematically integrate use of strategies with students



## About The HEAD Foundation

The HEAD Foundation is an International Charitable Organisation registered in Singapore, committed to impacting lives in Asia through quality education and effective healthcare. Its efforts in education include capacity building projects and programmes for teacher professional development. Its open-source teacher professional development programme, Making HEADway, has seen five series, covering topics from school leadership and remote learning to teaching STEM. The suite of offerings has expanded to include handbooks and workshops, alongside webinars.

## About the facilitators



### **Dr Khayriyyah (Kye) Mohd Hanafiah**

Kye conducts research in infectious disease and is an honorary fellow at Burnet Institute, Australia. She was awarded the prestigious Australian Endeavour Research Fellowship in 2017, became the first female Asian Champion of FameLab International in 2018, and received the Ministry of Youth and Sports Malaysia “Youth Award” in 2019. She conducts regular science communication training for students and researchers at various stages of their career, and adjudicated science communication competitions nationally and internationally. She is the lead author and editor for the training module 'Science communication in practice: A Malaysian perspective with global relevance' published by the Academy of Sciences Malaysia. She has given numerous public talks and interviews and produced a documentary on sustainable palm oil and short videos to raise awareness on various SDG-related issues. She regularly writes for The Star in her column “Science, She Wrote”.



### **Wan A. Matiin**

Matiin has science, society, and sustainability close to his heart. As a professional in learning and development, he is obsessed with understanding how humans communicate, learn, and grow in a world full of dynamic interactions. In his career spanning education, edtech, and science communication, he leverages learning science fundamentals, tech proficiency, and constructive play to help K-12 and adult learners transform anxiety into agency, zone-out into buy-in, and frustration into fluency. His dedication to elevating science literacy has led to op-eds, a science communication training module with the Malaysian Academy of Sciences, workshops for students and adults, and even the final stage of FameLab Malaysia 2019. He is particularly fond of game-based learning as a strategy and is always eager for intriguing new games to play and bond with people over!

### **The Malaysian Science Communication Network**

The Malaysian Science Communication Network (MySCN) prides itself as being the first outfit established by scientists from Southeast Asia aimed at setting a standard for training in science communication and delivering quality training to all levels of learners. MySCN believes that improving capacity and skills in science communication can bring a myriad of trickle-down benefits for science, education, and society across the region.