



WORKSHOP ON

SciConnect:

Inspiring Young Minds through Science Communication



 15 & 16 January 2025

 SEAMEO Hall, SEAMEO RECSAM, Penang

Target Participants:

Primary science teachers, educators,
student teachers, and enthusiasts interested
in enhancing their science communication skills

Facilitated by:

Dr. Nanthini Jayaram
Science Education Specialist
HRDF Certified Trainer
SEAMEO RECSAM, Penang, Malaysia

INTRODUCTION

The “SciConnect” workshop aims to empower primary educators, teacher trainees and enthusiasts in Malaysia and the Southeast Asian region to enhance their science communication skills. By bridging the gap between traditional teaching and interactive science communication, participants will discover how to ignite curiosity and foster a love for science in young learners. This is a two-day workshop that will equip participants with essential practical strategies, tools, and hands-on activities to enhance their teaching and create engaging, impactful learning experiences.

RATIONALE

Effectively communicating science in the classroom often requires detailed explanations, which may need to be repeated multiple times due to the complexity of the content. A teacher’s ability to effectively communicate a scientific concept is a key indicator of their teaching skill. Two essential qualities of a successful teacher are strong communication and questioning abilities. In addition to these skills, an effective science teacher must use interactive teaching methods to engage students, actively involving them in both communication and the learning process. Science communication matters in primary education because it (i) provides the real-world context, (ii) illustrates the significance of STEM careers to gauge students interest, (iii) enables students to define jargons in school and (iv) navigate inclusivity in science education. This workshop helps educators foster a scientifically literate generation by incorporating storytelling, interactive techniques, and student-centered approaches.

COURSE DESCRIPTION

This intensive two-day workshop combines lectures, hands-on activities, group discussions, and peer learning. Participants will delve into modules covering foundational science communication principles, student profiling for tailored instruction, and techniques to create content-rich, engaging lessons. The workshop will also showcase how to use tools such as storytelling, visual aids, and interactive simulations for impactful learning experiences.

Lesson	Topics and Activities	Learning Objectives
1	Topic 1: Crafting Connections: Science Educators to Science Communicators	1. The importance of effective science communication to educators.
2	Topic 2: From Insight to Influence: Power of Student Profiling in Science Communication Activity 1: Analyse student profiles to highlight key factors that influence learning - by game/quiz-based activities. Activity 2: Group discussion and analysis of which styles align with specific student profiles. Introduction to other activities that related to students profiling.	1. Analyse student profiles to identify key factors influencing learning through engaging - game or quiz-based activities. 2. Evaluate and discuss teaching styles that align with specific student profiles in a collaborative group setting.
3	Topic 3: Engage & Educate: Developing Content for Primary School Students Importance of media literacy in science communication. Activity 1: How to choose the suitable content & Distinguishing Content (True, False). Introduction to other activities: Using suitable technology to communicate science.	1. Understand the importance of media literacy in effective science communication for primary school students. 2. Evaluate and select appropriate content for primary school learners, including distinguishing between accurate and inaccurate information. 3. Explore and integrate suitable technologies to effectively communicate scientific concepts to young learners.

4	Topic 4: Science Speak: Teaching Teachers to Talk Science Activity 1: Storytelling in science. Introduction to other activities that relates to varied forms of communication.	1. Develop storytelling skills to effectively convey scientific concepts in an engaging and relatable manner. 2. Explore and apply various communication methods suited for teaching science to primary school students.
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LEARNING OUTCOMES

By the end of the workshop, participants should be able to:

1. Communicate complex scientific ideas in ways that are engaging and accessible to young learners.
2. Develop lesson plans that incorporate science communication techniques such as storytelling, visual aids, and interactive activities.
3. Utilise suitable digital tools to enhance science learning in the classroom.
4. Connect scientific concepts to real-world applications that resonate with primary students.
5. Tailor teaching methods to fit the cultural and technological needs of their students

REGISTRATION FEE

Type I: Workshop fee without accommodation at MYR 255.00 per person

Type II: Workshop fee with twin-sharing accommodation at International House at MYR 385.00 per person

Type III: Workshop fee with single accommodation at International House at MYR 515.00 per person

ACCOMMODATION AT RECSAM INTERNATIONAL HOUSE

(For Type II and Type III registration boarded at RECSAM International House only)

Check-in: A day before workshop (14 January 2025) from 2.00 p.m. onwards

Check-out: After workshop Closing Session (16 January 2025)

MEALTIME

Morning tea, lunch and afternoon tea will be provided by SEAMEO RECSAM during the workshop. For workshop participants boarded at RECSAM International House (Type II & Type III), breakfast will be provided. Food served will be halal, and for vegetarian requests, kindly note in the registration form.

CLOSING DATE FOR REGISTRATION

Early registration is encouraged to avoid disappointment and will be on a first come basis.

Closing date for registration is **10 JANUARY 2025**.

Registration may be done by accessing the following link

<https://forms.gle/J289t3nAM8Lj88Tu7> or scanning the QR code:



PAYMENT INFORMATION

Pay to: SEAMEO RECSAM

Bank: Maybank Gelugor Branch, Penang

Account Number: 557 157 000 647

FOR ENQUIRIES

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WORKSHOP SCHEDULE

TIME	ITEM
DAY 1: 15 JANUARY 2025 (WEDNESDAY)	
8:00 - 8:30 a.m.	Registration
8:30 - 9:30 a.m.	Topic 1: Crafting Connections: Science Educators to Science Communicators
9:30 - 10:30 a.m.	Topic 2: From Insight to Influence: Power of Student Profiling in Science Communication
10:30 - 11:00 a.m.	Morning tea and group photo
11:00 a.m. - 1:00 p.m.	Activities on Topic 2
1:00 - 2:30 p.m.	Lunch
2:30 - 4:30 p.m.	Topic 3: Engage & Educate: Developing Content for Primary School Students
4:30 p.m.	Afternoon tea
DAY 2: 16 JANUARY 2025 (THURSDAY)	
8:30 - 9:30 a.m.	Recap of Day 1 & Activities on Topic 3
9:30 - 10:30 a.m.	Topic 4: Science Speak: Teaching Teachers to Talk Science
9:30 - 10:30 a.m.	Activities on Topic 4
10:30 - 11:00 a.m.	Morning tea
11:00 a.m. - 1:00 p.m.	Developing a personalised lesson plan
1:00 - 2:30 p.m.	Lunch
2:30 - 4:00 p.m.	Sharing of lesson plans, feedback & Summary
4:00 - 4:30 p.m.	Closing Session and Certification Ceremony
4:30 p.m.	Afternoon tea

FACILITATOR PROFILE



Dr. Nanthini a/p Jayaram is a Science Education Specialist at SEAMEO RECSAM with 15 years of experience in higher education. She is also a certified HRDF Trainer. In her role, she focuses on developing innovative teaching resources and facilitating programs in science education. Her current projects include designing a science communication module for educators and spearheading green education initiatives to promote environmental awareness and sustainability. These projects aim to enhance teachers' science communication skills, enabling them to engage students more effectively with science subjects, while integrating sustainability into educational practices to inspire the next generation of environmentally conscious citizens.