



ISTIC
INTERNATIONAL SCIENCE, TECHNOLOGY AND
INNOVATION CENTRE FOR SOUTH-SOUTH
COOPERATION UNDER THE AUSPICES OF UNESCO

iap SCIENCE
RESEARCH
HEALTH
the interacademy partnership

 FONDATION
La main à la pâte
POUR L'ÉDUCATION À LA SCIENCE

ISTIC 10th Anniversary 2018

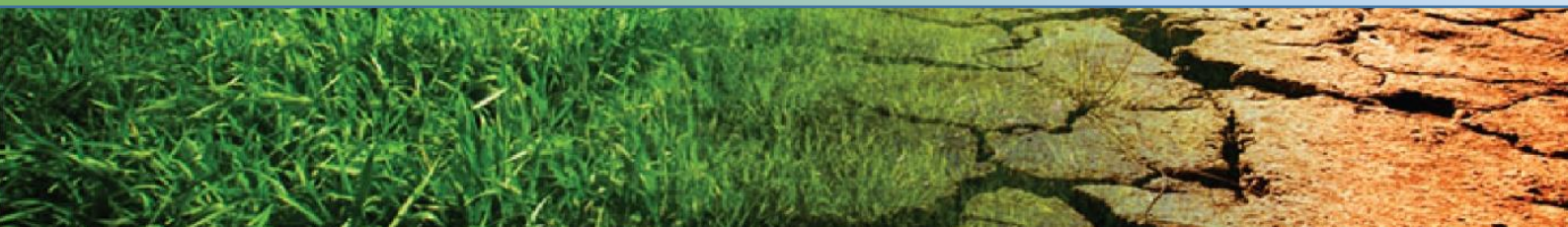
**Training Workshop for
IBSE Master Trainers on
Climate Change Education
For Asia and the Pacific Region
9-11 May 2018 | Kuala Lumpur, Malaysia**



Supporting Organisations:



**MINISTRY OF
EDUCATION
MALAYSIA**



**Training Workshop for IBSE Master Trainers on Climate Change Education for
Asia and the Pacific Region
9-11 May 2018, Kuala Lumpur, Malaysia**

Background:

There are currently about 60 science educators in the Asia - Pacific Region who have received two weeks of training in IBSE over two years organised by the International Science, Technology and Innovation Centre for South-South Cooperation under the auspices of UNESCO (ISTIC) and conducted by La main a la Pate facilitators. After attending the programme they are expected to play a major role in disseminating IBSE to colleagues and other teachers in their home countries and organisations. In Malaysia and probably elsewhere, IBSE is gaining momentum, hence there is growing demand for the services of the IBSE workshop participants as trainers. For example, three former participants of ISTIC's IBSE workshops have conducted training workshops in Sudan. The Academy of Sciences Malaysia has from time to time requested the services of the workshop participants in training teachers involved in their IBSE projects. However, the contents of the IBSE training workshops attended by these trainers focused more on the conduct of IBSE and not on preparing them to be trainers.

Rationale:

Good master trainers can effectively deliver a subject. There is a need to develop a cadre of competent master trainers in IBSE who are experts at delivery. They need to be properly prepared for the role of trainers as quality training can be a motivating experience to the participants. Such training can instill confidence and guide participants to be effective in their work. It is proposed that a training workshop for IBSE master trainers be organised for the Asia and Pacific Region.

Objectives of Workshop

1. To sensitise trainers on issues of climate change using IBSE as an approach to teaching climate change education
2. To enhance skills, understanding and competency of master trainers in IBSE in adult learning methodologies;
3. To enhance skills, understanding and competency of master trainers in order to assist teachers in implementing the approach; and
4. To provide the master trainers a solid framework for delivering training.

Duration of Training - 20 hours (3 days)

Participants will comprise 30 science educators from the Asia-Pacific Region. They must have attended at least one IBSE workshop organised by ISTIC and facilitated by La main a la Pate facilitators.

Workshop Content:

The workshop will cover topics such as climate change and IBSE, adult learning, developing confidence and competence, developing motivation and coaching.

This capacity building workshop will enable them to understand better on adult learning methodologies and enhance their skills, knowledge and competency, apply current facilitative skill that will promote learner engagement, show mastery in delivering key training strategies such as brainstorming and practice sessions. IBSE has been widely recognised as an effective approach to teaching science and has been given priority by IAP SEP in its efforts at improving science education.

Mode of Delivery:

The workshop will have a mixed approach which includes lectures, analysis of case studies, practical sessions / micro teaching

Expected Outcome

The workshop is expected to produce a cadre of trainers who can effectively deliver training programmes on climate change education based on IBSE.

Facilitators:

The workshop facilitators will be from Malaysia and La main a la Pate Foundation.

Partners

ISTIC as main organizer will prepare workshop brochure in consultation with La main a la Pate Foundation, announce the workshop on its website and contact embassies for the same purpose, process applications, shortlist applications, send out invitation letters to successful participants, organization and management of workshop (selection of workshop venue, accommodation, airport transfer, payments, day-to-day running of workshop, recording) workshop evaluation and preparation of workshop report. It will prepare the programmes schedule, list the materials and resources required and conduct the programme.

La main a la Pate Foundation (LAMAP) will be the main partner. It will provide advice and expertise on the programme and facilitate the programme on specific topics such as climate change education.

With support from the Academy of Sciences Malaysia, Ministry of Education Malaysia and Young Scientists Network

Tentative Programme Schedule

*All workshop participants are required to attend the International Conference on Climate Change Education on 7 & 8 May 2018.

Monday 7 May : International Conference on Climate Change Education	
Tuesday 8 May : International Conference on Climate Change Education	
DAY 1 - Wednesday, 9 May 2018	
9:00 am – 9:30 am	Opening by MOE representative Introduction general information about the training session (Dr. David Wilgenbus LAMAP Foundation)
9:30 am – 11:00 am	Hands-on activity I <i>What is greenhouse effect?</i>
11:00 am – 11:20 am	Tea Break
11:20 am – 12h30 am	Hands-on activity II <i>Greenhouse effect (cont.) Advantages and limitations of different ISBE activities (experiment, modelling, document studies)</i>
12:30 am – 02:00 pm	LUNCH
02:00 pm – 03:40 pm	Hands-on activity III <i>Climate change, ocean and cryosphere</i>
03:40 pm – 04:00 pm	Tea Break
04:00 pm – 05:00 pm	Hands-on activity IV <i>Climate change and acidification</i>
05:00pm – 05:30 pm	Climate change education, IBSE and nature of science
05:30 pm – 06:00 pm	Climate change education: mitigation & adaptation
06:00 – 06:30 pm	Conclusion & perspectives

DAY 2 – Thursday, 10 May 2018	
8:30 am – 10.00 am	Introduction and ice-breaking activity Overview of TOT
10.00 am – 10:30 am	Special address by Professor Daniel Rouan, LAMAP Fondation
10.30 – 11.00	Group Photo & Tea Break
11:00 am – 1.00 pm	Essential Teaching Skills to Promote IBSE <ul style="list-style-type: none"> Teaching Approaches to Enhance IBSE (Dr. Koay Suan See / Dr. Foo Lay Kuan)

1.00 am – 02:00 pm	LUNCH
02:00 pm – 04.30 pm	<p>Essential Teaching Skills to Promote IBSE</p> <ul style="list-style-type: none"> • Qualities of effective IBSE teachers • Students' Role in IBSE <p>IBSE Resources Assessment of IBSE (Dr. Koay Suan See / Dr. Foo Lay Kuan)</p>
04:30pm –05.00 pm	Tea and end of Day 2

DAY 3 – Friday, 11 May 2018

8:30 am – 10:30 am	Creating Conducive Environment for IBSE Teaching and Learning (Dr. Koay Suan See / Dr. Foo Lay Kuan)
10:30 am – 11:00 am	Tea Break
11.00 am – 12.15 pm	Facilitation Skills (Dr. Koay Suan See / Dr. Foo Lay Kuan)
12:15 am – 02:30 pm	LUNCH
02:30 pm – 04:30 pm	<p>Assessing Participants' Competence</p> <ul style="list-style-type: none"> • Developing methods for assessing knowledge and performance <p>(Dr. Koay Suan See / Dr. Foo Lay Kuan)</p>
04:30 pm – 05:00 pm	<i>Closing and End of Workshop</i> (Dato' Dr. Sharifah Maimunah)