



**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

# Training Workshop for IBSE Master Trainers on Climate Change Education

27-30 August 2018 | Kuala Lumpur, Malaysia



**Supporting Organisations:**



**MINISTRY OF  
EDUCATION  
MALAYSIA**



## **Training Workshop for IBSE Master Trainers on Climate Change Education 27-30 August 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 inquiry-based science education (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 to assist teachers in implementing the approach; and
3. To provide the master trainers a solid framework for delivering training.

### ***Who can attend?***

*Participants* will comprise 40 science educators. They must have attended at least one IBSE workshop organised by ISTIC.

### ***Workshop Content:***

The workshop has two parts. The first part will cover topics on climate change education through IBSE. The United Nations have declared climate change is one of the major challenges of our time. In that context, teachers require educational resources as well as professional development to be able to offer climate change education to their pupils. 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. This in turn would hopefully be able to highlight the pressing issue of climate change to the larger audience.

The second part of the workshop would expose participants to IBSE concepts of Training of Trainers (ToT), including essential skills in delivering training on IBSE, to be effective IBSE teachers and creating a conducive environment for IBSE teaching and learning.

This capacity building workshop will enable them to understand better on 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.

### ***Mode of Delivery:***

The workshop will have a mixed approach which includes lectures, analysis of case studies, practical sessions and a field visit.

### ***Expected Outcome***

The workshop is expected to produce a cadre of 40 trainers who can effectively deliver training programmes on science-based topics using IBSE.

### ***Facilitators***

The workshop facilitators will be from Malaysia, La main a la Pate Foundation (Office for Climate Education).

### ***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.

Created in 2018, the **Office for Climate Education (OCE)** as part of LAMAP aims to organise a strong international scientific, educational and operational cooperation for Climate Change education. These teaching resources will be free, interdisciplinary, adapted to local needs, widely spread, translated in many languages and will facilitate an active pedagogy. Based in Paris, *the Office for Climate Education* will work with a global network of local or regional partners in over

40 countries already, including the *InterAcademy Partnership for Science* – a global federation of Science Academies.

**The InterAcademy Partnership (IAP)** was formally launched in South Africa in March 2016, bringing together three established networks of academies of science, medicine and engineering, namely IAP, the global network of science academies, the InterAcademy Medical Panel (IAMP) and the InterAcademy Council (IAC).

Under the new InterAcademy Partnership, more than 130 national and regional member academies work together to support the special role of science and its efforts to seek solutions to address the world's most challenging problems. In particular, IAP harnesses the expertise of the world's scientific, medical and engineering leaders to advance sound policies, improve public health, promote excellence in science education, and achieve other critical development goals.

## TENTATIVE PROGRAMME

<b>DAY 1 - Monday, 27 August 2018</b>	
9:00 am – 9:50 am	<b>Opening Session</b> <ul style="list-style-type: none"> <li>Welcome Address by Academician Dato' Ir. Lee Yee Cheong FASc, Interacademy Partnership Science Education Programme (IAP SEP) Global Council Chair.</li> <li>Address by David Wilgenbus, Office for Climate Change Education La main a la Pate.</li> <li>Opening by YB Yeo Bee Yin, Minister of Energy, Science, Technology, Environment and Climate Change.</li> </ul>
9:50 am – 10:00 am	
<b>Group Photo Session</b>	
10:00 am – 10:30 am	<b>Tea Break</b>
10:30 am – 11:00 am	<b>Introduction &amp; General information about the training session</b> Dr. David Wilgenbus, LAMAP Foundation
11:00 am – 1:00 pm	<b>Climate Change and IBSE – Part 1</b> (Lydie Lescaumontier & David Wilgenbus)
1:00 pm – 2:15 pm	<b>Lunch</b>
2:15 pm – 3:45 pm	<b>Climate Change and IBSE – Part 2</b> (Lydie Lescaumontier & David Wilgenbus)
3:45 pm – 4:00 pm	<b>Tea Break</b>
4:00 pm – 5:30 pm	<b>Climate Change and IBSE – Part 3</b> (Lydie Lescaumontier & David Wilgenbus)
<b>End of Day 1</b>	

<b>DAY 2 - Tuesday, 28 August 2018</b>	
9:00 am – 11:00 am	<b>Visit to Forest Research Institute Malaysia</b>
12:00 pm – 1:00 pm	<b>Poster session:</b> participants' projects
1:00 pm – 2:15 pm	<b>Lunch</b>
2:15 – 3:45 pm	<b>Ocean and IBSE – Part 1</b> (Lydie Lescaumontier & David Wilgenbus)
3:45 pm – 4:00 pm	<b>Tea break</b>
4:00 pm – 5:30 pm	<b>Ocean and IBSE – Part 2</b> (Lydie Lescaumontier & David Wilgenbus)
<b>End of Day 2</b>	

<b>DAY 3 - Wednesday, 29 August 2018</b>	
8:30 am – 9:00 am	<b>Review of Day 2</b>
9:00 am – 12:15 pm	<b>Conceptual Scenario: Creating resources in IBSE</b> (Lydie Lescaumontier & David Wilgenbus)
12:15 pm – 2:00 pm	<b>Lunch</b>

2:00 pm – 3:00 pm	<b>Overview of Training of Trainers (TOT)</b>
3:00 pm – 5:00 pm	<b>Essential teaching skills to promote IBSE</b> <ul style="list-style-type: none"> <li>Teaching approaches to enhance IBSE (Dr. Koay Suan See/ Ms. Foo Lay Kuan)</li> </ul>
4:00 pm – 4:30 pm	Tea break
4:30 pm – 5:30 pm	(Continue)
<b>End of Day 3</b>	

<b>DAY 4 - Thursday, 30 August 2018</b>	
8:30 am – 9:00 am	<b>Review of Day 3</b>
9:00 am – 10:00 am	<b>Essential Teaching Skills to Promote IBSE</b> <ul style="list-style-type: none"> <li>Qualities of effective IBSE teachers</li> <li>Students' Role in IBSE</li> </ul> IBSE Resources Assessment of IBSE (Dr. Koay Suan See / Ms. Foo Lay Kuan)
10:00 am – 10:30 am	<b>Tea Break</b>
10:30 am – 11:30 am	(Continue)
11:30 am – 12:30 pm	<b>Creating Conducive Environment for IBSE Teaching and Learning</b> (Dr. Koay Suan See / Ms. Foo Lay Kuan)
12:30 am – 2:00 pm	<b>Lunch</b>
2:00 pm – 3:00 pm	<b>Facilitation Skills</b> (Dr. Koay Suan See / Ms. Foo Lay Kuan)
3:00 pm – 4:30 pm	<b>Assessing Participants' Competence</b> <ul style="list-style-type: none"> <li>Developing methods for assessing knowledge and performance</li> </ul> (Dr. Koay Suan See / Ms. Foo Lay Kuan)
4:30 pm – 5:00 pm	<b>Round up Session</b>
5:00 pm – 5:30 pm	<b>Closing Ceremony</b> <ul style="list-style-type: none"> <li>Closing Address by Dato' Dr. Sharifah Maimunah FASc, Director of ISTIC</li> <li>Presentation of Certificates</li> <li>Group Photo Session</li> </ul>
<b>Tea and End of Programme</b>	

## DURATION AND VENUE

The training workshop will be held over 4 days in TAMU Hotel & Suites, Kuala Lumpur, 120 Jalan Raja Abdullah Kampong Bharu 50300, Kuala Lumpur, Malaysia from 27<sup>th</sup> to 30<sup>th</sup> August 2018.

## TRAVEL

Participants are expected to cover their own travel expenses and make their own travel arrangements to Kuala Lumpur. International participants should plan to arrive on 26<sup>th</sup> August 2018 and depart on 31<sup>st</sup> August 2018.

## HOSPITALITY

- 1) Local hospitality will be provided by the organiser to the selected international participants. This includes accommodation and meals during the training workshop, but excluding traveling. Participants will have to make their own arrangement of stay beyond these days and therefore should arrange their flight schedules accordingly.
- 2) Local participants will be provided lunch and tea during the training workshop.

## APPLICATIONS

- i. Applicants are urged to use online application. The link of online application form can be accessed from the website [www.istic-unesco.org](http://www.istic-unesco.org).

For Malaysian applicants please click here:  
<https://goo.gl/forms/q5xUysAycBwYHqhr2>

For International applicants please click here:  
<https://goo.gl/forms/F8rHK1uUJqXovW2B3>

- ii. Applicants also can apply using the application form as attached in this brochure and submit the completed form to the following address [info@istic-unesco.org](mailto:info@istic-unesco.org)

## CLOSING DATE OF APPLICATIONS

All applications should be submitted to the ISTIC secretariat office **before 1<sup>st</sup> August 2018**

ISTIC will inform the successful applicants to the conference **not later than 8<sup>th</sup> August 2018**. Applicants who do not receive word within this date are rendered unsuccessful.

## **SECRETARIAT & ENQUIRIES**

Secretariat  
International Science, Technology and Innovation Centre  
for South-South Cooperation under the auspices of UNESCO (ISTIC)  
902-4, Jalan Tun Ismail  
50480 Kuala Lumpur  
MALAYSIA

Tel: +603-2694 9898 ext. 114

Fax: +603-2698 4549

Email: [lydiahong@istic-unesco.org](mailto:lydiahong@istic-unesco.org)

Website: <http://www.istic-unesco.org>

**APPLICATION FORM**  
(Typewritten or blocked letters)

FOR OFFICIAL USE ONLY  Reference No: Received: Checked:	Please affix latest passport photograph
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Title of Programme:  Training Workshop for IBSE Master Trainers on Climate Change Education for Asia and the Pacific Region	Date, duration & venue of course: 27 - 30 August 2018 Kuala Lumpur
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**ONLINE APPLICATION**

Malaysian applicants: <https://goo.gl/forms/q5xUysAycBwYHghr2>  
International applicants: <https://goo.gl/forms/F8rHK1uUJgXovW2B3>

**1. PERSONAL PARTICULARS:**

Family name (surname):	Date of Birth: (Date/Month/Year)
First name:	Nationality: (Citizenship)
Other given names:	Gender: (Male/ Female)
City and country of birth:	Marital status: (Single/ Married)
Passport No. / NRIC:	Designation : Prof. / Dr / Mr / Mrs / Ms

**2. COMMUNICATION AND MAILING ADDRESS:**

Applicant's Office Address:	Office Phone No:	
	Office Fax No:	
Email address:		
Mobile No:		
Person to be contacted in case of emergency (name, telephone and address):		

**3. EDUCATION:**

Name of institution and place of study	Major field of study:	Years of study	Degree

**4. EMPLOYMENT RECORD:**

A. Current Post:			B. Previous Post:		
Employer:			Employer:		
Duration of service:	From	To	Duration of service:	From	To
Title of post:			Title of post:		
Current monthly salary(US dollars):			Monthly salary (US dollars):		
Name of supervisor and title:			Name of supervisor and title:		
Type of organisation: Government/Semi-Government/ Private/ NGO			Type of organisation: Government/Semi-Government/ Private/ NGO		
Main functions of organisation:			Main functions of organisation:		
Total number of employees in organisation:			Total number of employees in organisation:		
Description of your current work including your responsibilities:					
*Please use supplementary pages if necessary					

**5. REASONS FOR APPLYING THIS PROGRAM:**

Please briefly state the reasons for applying this program and how you hope to benefit from this program	
Have you participated in any ISTIC training programs before: YES/ NO	
If yes;	
Name of program	Date

**6. CERTIFICATION OF ENGLISH LANGUAGE PROFICIENCY:**

	Excellent	Good	Fair	Remarks
Listening				
Speaking				
Writing				
Reading				
Mother tongue:				

**7. DECLARATION:**

<b>Have you ever been convicted by a Court of Law of any country? Yes/ No</b> If yes, please give brief details:	
I certify that my statements in answer to the foregoing questions are true, complete and correct to the best of my knowledge and belief. If accepted to the training workshop, I undertake to:	
i) carry out such instructions and abide by such conditions as may be stipulated by both the nominating government and the host government in respect of this course of training;	
ii) follow the course of study or training, and abide by the rules of the institution in which I undertake to study or train;	
iii) refrain from engaging in political activities, or any form of employment for profit or gain;	
iv) submit any progress reports which may be prescribed; and	
v) return to my home country promptly upon the completion of my course of studies or training.	
I fully understand that if I am granted an award it maybe subsequently withdrawn if I fail to make adequate progress or for other sufficient cause determined by the host Government.	
Signature of Application	: _____
Name	: _____
Date	: _____

**8. OFFICIAL DECLARATION (to be completed by the Head of Department):**

The Government / Organisation of .....	
... nominates .....	
..... (name of applicant)	
For the program under the International Science, Technology and Innovation Centre for South-South Cooperation (ISTIC) and certifies that:	
i) all information supplied by the nominee is complete and correct;	
ii) the nominee had adequate knowledge and was appropriately tested for English Language proficiency.	
Remarks: .....	
.....	
_____	_____
(Name)	(Signature of responsible Head of Department)
_____	Address of Department/ Ministry
(Designation)	_____
Official seal/ stamp	_____
	Office telephone no:
	Office fax no:
Date:	Email address:

*Note: INCOMPLETE AND/OR UNENDORSED FORMS WILL NOT BE PROCESSED*