



ISTIC

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



United Nations Educational, Scientific and Cultural Organization



KEMENTERIAN SAINS, TEKNOLOGI DAN INOVASI  
MINISTRY OF SCIENCE, TECHNOLOGY AND INNOVATION



# ISTIC 10<sup>th</sup> Anniversary 2018

## INTERNATIONAL CONFERENCE ON CLIMATE CHANGE EDUCATION 7 - 9 May 2018, Kuala Lumpur, Malaysia



Supporting Organisations:



MINISTRY OF EDUCATION MALAYSIA



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



Malaysian National Commission for UNESCO

iap SCIENCE RESEARCH HEALTH  
the interacademy partnership



ECOSF  
ECO Science Foundation



JEFFREY SACHS CENTER  
on Sustainable Development  
SUNWAY UNIVERSITY, Malaysia

## **ISTIC 10<sup>th</sup> Anniversary 2018**

The International Science, Technology and Innovation Centre for South-South Cooperation under the Auspices of UNESCO (ISTIC) was one of the successful outcome of the 2<sup>nd</sup> Summit of G77 + China in Doha 2005. UNESCO requested Malaysia to host ISTIC as a UNESCO Category 2 Centre. All operational and administrative expenditure of a UNESCO Category 2 Centre is borne by the host nation. Malaysia accepted as her contribution to sustainable development in sister G77 nations through South-South cooperation in STI. ISTIC was launched in Kuala Lumpur on 28 May 2008 under the UNESCO-Malaysia Agreement on ISTIC 2008-2015. The UNESCO-Malaysia Agreement on ISTIC was renewed in 2016, extending the life of ISTIC to 2021. In ISTIC first decade, ISTIC has established an international reputation as the most eminent and respected centre in South-South cooperation in UNESCO and in the UN System. [www.istic-unesco.org](http://www.istic-unesco.org)

In 2018, all ISTIC activities and events will celebrate her first decade of achievements and strategize for the next decade.

The highlight of ISTIC 10<sup>th</sup> Anniversary Celebration 2018 will be in the week beginning 7 May in Kuala Lumpur.

The anchor event will be the International High-Level Conference on Climate Change Education. Other related events will include, but not limited to:

- IAP SEP/ISTIC/LAMAP Inquiry Based Science Education Training Workshop for IBSE master trainers on Climate Change Education;
- 11<sup>th</sup> ISTIC Governing Board Meeting
- ISTIC /Ministry of Women, Family & Community Development / UN Women Training Workshop on Technopreneurship for Women in STI
- Annual General Conference of the Academy of Engineering and Technology of the Developing World (AETDEW)

# International Conference on Climate Change Education 7-9 May 2018, Kuala Lumpur, Malaysia

## Introduction

Since 2008, ISTIC has focused her key agenda on the sustainable development of G77 countries through South-South cooperation in STI from the UN Millennium Development Goals (MDGs) 2000-2015 to the UN Sustainable Development Goals (SDGs) 2016-2030. In view of the imminent threat to humankind existence on earth posed by human induced global warming, ISTIC has decided that the overall target in celebrating her 10<sup>th</sup> Anniversary in 2018 will be on SDG No 13 “Take Urgent Action to Combat Climate Change and Its Impacts”. The principal contribution to global warming has been the profligate consumption of human societies exhausting Earth’s resources and polluting the atmosphere with greenhouse gases. There is therefore an urgent need for humankind to adopt sustainable lifestyle. The solution is climate change education. SDG No 13 recognizes the importance of education in its target 13.3 and indicator 13.3.1:

- **13.3** Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning;
- **13.3.1** Number of countries that have integrated mitigation, adaptation, impact reduction and early warning into primary, secondary and tertiary curricula.

The United Nations Climate Change Convention (UNCCC, 1992) and the Paris Agreement (UN, 2015) also recognize the importance of climate change education by stating that “*The development and implementation of education and training programmes ... in particular for developing countries*” (UNCCC Art. 6.b.ii) and “*Parties should take measures ... to enhance climate change education*” (Paris Agreement Art. 12”).

Yet climate change education has not been given much priority in implementation of SDG No. 13. There is no mention of education in the 2017 Report of the UN Secretary-General “Progress towards the Sustainable Development Goals” with respect to SDG No.13. [http://www.un.org/ga/search/view\\_doc.asp?symbol=E/2017/66&Lang=E](http://www.un.org/ga/search/view_doc.asp?symbol=E/2017/66&Lang=E)

The InterAcademy Partnership (IAP), whose members are 110 national academies of sciences and 35 national academies of medicines, voices her concern about the lack of global action on climate change education by issuing “A Statement on Climate Change and Education”. <http://www.interacademies.org/Statements/38806.aspx>

It states:

*“It is well recognized (5<sup>th</sup> IPCC Assessment Report) that the impacts of climate change will disproportionately impact poor people. The consequences will mostly affect the 3 billion people living in poverty, especially in the developing world. Youngsters and children (aged below 15) represent one-quarter of the global population. Among them, one billion have poor schooling, especially in science and sustainable development; compared to boys, education for girls is even poorer. At the current rate, only 14% of these children will reach secondary- level education in 2030 (UNESCO 2016). A considerable and tenacious effort is needed in schools, connected with families and communities, in order to empower young people, not only in the concerns resulting from climate change, but importantly also in the social and economic benefits offered by working, with hope in the future, towards a more sustainable world. Inter-connected areas of intervention such as safe water management, alternative energy sources, traditional knowledge, sustainable agriculture, the bioeconomy and green chemistry can be addressed. But climate change is a rapidly evolving problem. To predict what will be the most competent decisions and debates in twenty years' time, when the current generation of young students will be decision-makers, is difficult. Hence, education today must equip them with the capability of understanding and of making decisions based on evidence and critical thought, rather than allowing a priori opinions or irrationality guide their choices.”*

The IAP Statement is a clarion call to scientists and engineers, especially in IAP member academies to champion climate change education as *“scientists and engineers are a powerful voice for the importance of such education, both globally and within their own countries and communities. They are important advocates for the importance of climate education, the critical role of teachers, and the needed resources.”*

In response to IAP’s clarion call, an Office for Climate Education is being set up under the leadership of Fondation La main à la pâte (LAMAP) of France. <http://www.fondation-lamap.org/fr/page/64267/loffice-for-climate-education-bientot-abrite-par-la-fondation-la-main-a-la-pate>

ISTIC has been a staunch partner of LAMAP in G77 since 2008, The ISTIC International Conference on Climate Change Education is a platform to engage governments, academia, corporations, students, parents and teachers in G77 countries to support climate change education through active participation in the International Office for Climate Education”.

## **Conference Objectives**

Women, youth and children in developing countries are suffering and will continue to suffer the worst impacts of climate change, climate change education must prepare them for facing the challenges of climate change in their everyday life such as violent natural disasters; food and water scarcity, job security etc. Hopefully climate change education will also prepare them for employment in climate change prevention and mitigation industrial and services sectors. Above all, they should become advocates of lifestyle change from excessive to moderate consumption with respect to the scarce Earth resources thus reducing the emission of greenhouse gases. Through their proficient use of social media, they will become the agents of change in their communities for sustainable development.

Within the above framework, the international conference will identify:

- effective mechanism on how to integrate climate change education into national education curriculum.
- good practices on climate change education.
- support for teacher training on climate change education the Inquiry Based Science Education (IBSE) way;
- learning resources and good practices that will enhance climate change education;

so as to help amplifying the action of the now established Office for Climate Education in Paris, and its associated Global Network.

## **Participants**

About 150 participants comprising policy makers, educationists, scientists, parents and teachers, students and educational NGOs.

## **Venue**

Corus Hotel Kuala Lumpur  
Jalan Ampang, 50450 Kuala Lumpur, Malaysia

## **Speakers, Moderators and Moderators**

### **Guests of Honour**

- Datuk Seri Panglima Wilfred Madius Tangau, Minister of Science Technology and Innovation, Malaysia;
- H.E Audrey Azoulay, UNESCO Director-General (represented by Dr. Flavia Schlegel, UNESCO Assistant Director-General for Natural Sciences);

### **Speakers, Chairs and Moderators**

- Dr. Flavia Schlegel, UNESCO Assistant Director-General for Natural Sciences
- Professor Jeffrey Sachs, UN Secretary-General Advisor on SDGs
- Professor Pierre Lena, Co-Founder, LAMAP
- Prof. Laurence Tubiana, CEO European Climate Change Foundation
- Professor Wu Qidi, Former Deputy Minister of Education, China;
- Professor Liu Depei, President, InterAcademy Partnership (IAP)
- Prof. Tan Sri Dr. Zakri Abdul Hamid, Science Advisor to Prime Minister Malaysia
- Prof. Phumzile Mlambo-Ngcuka, Executive Director UN Women / Ms. Anna-Karin Jafors, UN Women Deputy Regional Director Asia – Pacific Region
- Jorge Chediek, Director of the United Nations Office for South-South Cooperation(UNOSSC)
- Professor Datuk Dr. Asma Ismail, President, Academy of Sciences Malaysia
- Tan Sri Dato' Academician Ir. Dr. Ahmad Zaidee Laidin, Secretary-General, Academy of Sciences Malaysia
- Professor Yongyuth Yuthavong, Former Deputy Prime Minister, Thailand;
- Professor Mu Rongping, Director of Science Policy, Academy of Sciences China;
- Professor Manzoor Soomro, President. ECO Science Foundation, Pakistan;
- Dr. S. Gopalakrishnan, Co-Founder Infosys, India;
- Dr. Mustafa El Tayeb, President, Future University Sudan/President, UNESCO Science Commission 2017;
- Dr Joanna Rubinstein, President/CEO, World Childhood Foundation. USA;
- Professor Daniel Rouan, Chair, LAMAP Foundation;
- Dr. Marlene Kanga, President, World Federation of Engineering Organizations (WFEO), Australia
- Dr. Tolullah Oni, Co-Chair, Global Young Academy, South Africa
- Professsor Dr. Abhimanyu Veerakumarasivam, Chair, Young Scientist Network, Malaysia;
- Engr Kashim Ali, President COREN, Nigeria;
- Dato' Ir. (Dr.) Lee Yee Cheong, Commissioner, UN Broadband Commission for Sustainable Development;
- Dr. David Wilgenbus, LAMAP Foundation

- Dr. Aphiya Hathayatham, Deputy Director, National Science Museum Thailand;
- Han Qunli, Former Director, UNESCO Man and the Biosphere Program;
- Dr. Ng Soo Boon, Deputy Director Curriculum Development Division Ministry of Education, Malaysia;
- Ooi Peng Ee, CEO, Penang Science Cluster, Malaysia
- H.E. Nico Barito, R20 Director for Asia-Pacific

## **Expected Outcome**

The outcomes of the conference will be a set of recommendations and proposed action plan on how to incentivize intergovernmental institutions, G77 governments, academies, academia, educational stakeholders to work with the Office for Climate Education (<http://www.fondation-lamap.org/fr/page/64267/loffice-for-climate-education-bientot-abrite-par-la-fondation-la-main-a-la-pate>) so as to integrate and implement climate change education in schools on urgent basis.

**DAY 1: Monday, 7 May 2018**

9:00 a.m. – 11.00 a.m.	<p><b>Grand Opening</b></p> <ul style="list-style-type: none"> <li>• Welcome Remarks by Dato' Dr. Samsudin Tugiman FASc, Chairman, ISTIC Governing Board</li> <li>• Welcome Remarks by Prof. Liu Depei, President, Inter-Academy Partnership (IAP)</li> <li>• Address by UNESCO ADG Natural Science, Dr. Flavia Schlegel</li> <li>• Video Message from UNESCO Director-General, H.E. Audrey Azoulay</li> <li>• Opening of Conference by Datuk Seri Panglima Wilfred Madius Tangau, Minister, Ministry of Science Technology and Innovation</li> </ul> <p><b>Plenary Keynote Address</b>  “SDGs and Climate Change” by Professor Jeffrey Sachs, UN Secretary-General Advisor on SDGs</p> <p>Signing of MOUs between:</p> <ol style="list-style-type: none"> <li>1. ISTIC-United Nations Office for South-South Cooperation (UNOSSC)</li> <li>2. ISTIC-Forum of Small Medium Economic Africa ASEAN (FORSEAA)</li> </ol> <p>Group Photo</p>
11:00 a.m. – 11:30 a.m.	Tea Break
11:30 a.m. – 1:00 p.m.	<p><b>1<sup>st</sup> Plenary Session</b>  <b>Climate Change Education Role of Intergovernmental Organisations (UN, IPCC, Paris Agreement, IAP)</b></p> <p><b>Moderator: Tan Sri Dato' Academician Ir. Dr. Ahmad Zaidee Laidin, Secretary-General, Academy of Sciences Malaysia</b></p> <ul style="list-style-type: none"> <li>• Scene Setting Lecture: “Transformative Commitments by Governments in Addressing Climate Change in accordance to the Paris Agreement 2015” by Prof. Laurence Tubiana, CEO European Climate Change Foundation</li> <li>• Scene Setting Lecture : “Government Policy on Climate Change Education” by Emeritus Prof. Tan Sri Zakri Abdul Hamid, Science Advisor to Prime Minister Malaysia</li> <li>• Scene Setting Lecture “The Urgent Need for Climate Change Education” by Professor Pierre Lena, LAMAP Fondation</li> </ul>
1:00 p.m. – 2:00 p.m.	Lunch
2:00 p.m. – 4:00 p.m.	<p><b>2<sup>nd</sup> Plenary Session : Climate Education: Role of National Government, Academia and STI Community</b></p> <p><b>Moderator: Prof. Daniel Rouan, President, LAMAP Foundation</b></p> <ul style="list-style-type: none"> <li>• “South-South Cooperation in Climate Change Education“ by Jorge Chediek, Director, United Nations Office for South-South Cooperation(UNOSSC)</li> <li>• “China’s Policy on Climate Change Education” by Professor Wu Qidi, former Deputy Minister of Education, China;</li> <li>• “Role of National Academy of Sciences in Climate Change Education” by Professor Asma Ismail, President, Academy of Sciences Malaysia</li> <li>• “Role of Universities in Climate Change Education” by Dr Mustafa El Tayeb, President, Future University Sudan</li> </ul>
4:00 p.m. – 5:00 p.m.	<b>Panel Discussion on Plenary Sessions 1 &amp; 2</b>
5:00 p.m.	<b>Tea Break &amp; End Day 1</b>



**DAY 2: Tuesday, 8 May 2018**

9:00 a.m. – 10.30 a.m.	<p><b>3<sup>rd</sup> Plenary Session</b>  <b>Women and Youth in Climate Change Education</b></p> <p><b>Moderator: Dr. Marlene Kanga, President, World Federation of Engineering Organizations (WFEO)</b></p> <ul style="list-style-type: none"> <li>• “Role of Women in Effecting Climate Change Education” By Prof. Phumzile Mlambo-Ngcuka, Executive Director UN Women/ Ms. Anna Karin Jatfors, Deputy Regional Director, UN Regional Office for Asia-Pacific, Bangkok</li> <li>• “Importance of Children in Climate Change Education” by Dr. Joanna Rubinstein, President, World Childhood Foundation, USA</li> <li>• “Global Young Academy and its Possible Role in Climate Change Education” By Dr. Tolullah Oni, Co-Chair, Global Young Academy</li> <li>• “ASEAN and Malaysian Young Scientist Networks in Promoting Climate Change Education” by Prof. Dr. Abhimanyu Veerakumarasivam, Chair, Young Scientist Network, Malaysia</li> </ul>
10:30 a.m. – 11:00 a.m.	<p><b>Tea Break</b></p>
11:00 a.m. – 1:00 p.m.	<p><b>4<sup>th</sup> Plenary Session</b>  <b>Institutions and Resources</b></p> <p><b>Moderator: Professor Dr. Manzoor Soomro, President, ECO Science Foundation, Pakistan</b></p> <ul style="list-style-type: none"> <li>• “Role and Function of the Office for Climate Education” by Dr. David Wilgenbus, LAMAP Foundation</li> <li>• Role of Science Museums in Climate Change Education: The Thai Experience” by Aphiya Hathayatham, Deputy Director, National Science Museum, Thailand</li> <li>• “Application of Digital Technologies in Climate Change Education” by Dr. S. Gopalakrishnan, Co-Founder Infosys, India;</li> <li>• “Climate Change Education Curriculum Design in Crowded Curriculum” by Datin Dr. Ng Soo Boon, Deputy Director Curriculum Development Division Ministry of Education, Malaysia</li> </ul>
1:00 p.m. – 2:00 p.m.	<p><b>Lunch</b></p>
2:00 p.m. – 4:00 p.m.	<p><b>5<sup>th</sup> Plenary Session</b>  <b>Good Sustainable Development Practices and Climate Change Education</b></p> <p><b>Moderator: Prof. Mu Rongping, Director of Science Policy, Academy of Sciences China</b></p> <ul style="list-style-type: none"> <li>• “Sufficiency Economy for Sustainability – The Thailand Experience” by Prof. Yongyuth Yuthavong, former Deputy Prime Minister, Thailand;</li> <li>• “The Role of Regions of Climate Action in Combating Climate Change”, H.E. Nico Barito, R20 Director of Asia-Pacific</li> <li>• “Natural Disaster and Climate Change Education” by Han Qun Li ,Former Director, UNESCO Man and the Biosphere Program</li> <li>• “Nexus of Hands On Digital Education and Climate Change Education” by Ooi Peng Ee, CEO, Penang Science Cluster, Malaysia</li> </ul>
4:00 p.m. – 5:00 p.m.	<p><b>Panel Discussion on Plenary Sessions 3, 4 &amp; 5</b></p>
5:00 p.m	<p><b>Tea Break &amp; End Day 2</b></p>

DAY 3: Wednesday , 9 May 2018	
9:00 a.m. – 10:30 a.m.	<b>Panel of Recommendations</b> <b>Moderator: Academician Dato' Ir. (Dr.) Lee Yee Cheong FASc</b> <b>Panelist: Moderators</b>
10:30 a.m. – 11:00 a.m.	<b>Tea Break</b>
11.00a.m. – 12:00 p.m.	<b>Panel Interaction with Participants</b>
12:00 p.m. – 2:30 p.m.	<b>Lunch</b>
2:30 p.m. – 3:00 p.m.	<b>Presentation of Recommendation</b>
3:00 p.m. – 3:30 p.m.	<b>Closing Ceremony and End of Conference</b>

## 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 6 May 2018 and depart on 10 May 2018.

## HOSPITALITY

- 1) Local hospitality will be provided by the organiser to the selected international participants. This includes accommodation and meals (breakfast, lunch and tea) during 7 - 9 May 2018. 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 full meeting package (teas & lunches)

## 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)  
International Participants online application form  
Link: <https://goo.gl/forms/ceEf664a9UsulVQ82>
- 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 26 March 2018**

ISTIC will inform the successful applicants to the conference **not later than 9 April 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  
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Fax: +603-2698 4549

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

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

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

FOR OFFICIAL USE ONLY  <b>Reference No:</b> <b>Received:</b> <b>Checked:</b>	Please affix latest passport photograph
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<b>Title of Programme:</b> ISTIC 10 <sup>th</sup> Anniversary 2018 International Conference on Climate Change Education	<b>Date, duration &amp; venue of course:</b> 7 - 9 May 2018 Kuala Lumpur
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**ONLINE APPLICATION:** <https://goo.gl/forms/ceEf664a9UsulVQ82>

**1. PERSONAL PARTICULARS:**

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

**2. COMMUNICATION AND MAILING ADDRESS:**

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

**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:**

Have you ever been convicted by a Court of Law of any country? Yes/ No  
If yes, please give brief details:

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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)
_____ (Designation)	Address of Department/ Ministry
Official seal/ stamp	_____ _____
	Office telephone no: Office fax no: Email address:
Date:	

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