



CLIMATE CHANGE EDUCATION WORKSHOP

29 - 30 June 2021

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**A Partnership Project between
UNESCO WORLD Federation of Engineering Organisations,
National Environment Agency, Singapore, Office of Climate Change Education,
Institution of Engineers Mauritius and Mauritius Institute of Education**

This workshop will provide world leading information and training for teachers with practical tools which can be used in primary and secondary schools for climate change education and awareness.

To register for this important workshop, please click on the following link:

<https://forms.monday.com/forms/4c90c792bd46d5f2242b189943726e0b?r=use1>

Note: Further workshop information and materials will be provided with your registration confirmation.

1st Online Workshop

Tuesday (29th June 2021)

09.00 – 09.45	Welcome by Director MIE, President of IEM Introduction of partners: WFEO, UNESCO, OCE Presentation of main objectives	MIE Director/IEM President OCE
09.45 – 10.30	Challenges and specificities of climate education	OCE
10.30-10.45	Questions and Answers	OCE, All
10.45 – 11.00	<i>Break</i>	
11.00 – 11.45	Greenhouse effect and climate system	OCE
11.45-12.00	Questions and Answers	OCE, All
Wednesday (30th June 2021)		
09.00 – 09.30	Summary of Day 1 Presentation of current curricula and local actions	Dr R. Bholah, MIE
09.30 – 10.00	Presentation of Climate Change educational material for primary & Secondary schools	OCE
10.00 – 10.30	Curriculum Design Task setting for preparation of curriculum development for presentation in September 2021 workshop	Pr A. B. Rumjaun, MIE
10.30-10.45	Questions and Answers	OCE, All
10.45 – 11.00	<i>Break</i>	
11.00 – 11.15	Presentation of CCE programme in September workshops	OCE
11.15 – 11.30	Closing – the way forward	Dr R. Bholah, MIE

2nd On site Workshop

September 2021

Tuesday			
09.00 – 10.45	<p>Official Opening</p> <p>Welcoming remarks from all partners and presentation of the workshop objectives and program coffee break & group photo</p>	All partners	
11.00 – 12.30	<p>Greenhouse effect and climate system (1)</p> <p>Hand's on session + scientific background</p>	OCE	
12:30 – 14.00	<i>Lunch</i>		
14.00 – 15.30	<p>Greenhouse effect and climate system (2)</p> <p>Hand's on session + scientific background</p>	OCE	
15.30 – 16.00	<p>Conclusions of day 1</p> <p>Conceptual scenarios</p>	OCE	
Wednesday			
09.00 – 12.00	<p>Ocean and climate change</p> <p>Hand's on session + scientific background</p> <p>Themes: sea level rise, acidification, corals, carbon cycle, mangrove...</p>	OCE	
12.00 – 13.30	<i>Lunch</i>		
13.30 – 16.00	<p>Sandwatch, a project for climate mitigation & adaptation field visit + debate + presentation of the Sandwatch education materials</p>	Sandwatch representative for Mauritius	
Thursday			
09.00 – 10.30	<p>Group 1</p> <p>Critical thinking workshop</p> <p>Hand's on session + scientific background</p>	<p>Group 2</p> <p>Eco-anxiety</p> <p>Hand's on session + scientific background</p>	OCE

10.30 – 11.00	Break	
11.00 – 12.30	<p>Role of engineers in climate adaptation & mitigation experiments, project-based constructions + scientific background</p> <p>Example of themes: renewable energies, eco-housing, eco-transportation, hydroponics, etc.</p>	IEM (with support of Mauritius Institute for Education and OCE)
12.30 – 13.30	Lunch	
13.30 – 16.00	<p>Curriculum design (1)</p> <p>STEP 1: conceptual scenarios for primary / secondary schools</p>	Production by participants (animation OCE + MIE)
Friday		
09.00 – 12.00	<p>Curriculum design (2)</p> <p>STEP 2: designing curricula</p>	Production by participants (animation OCE + Mauritius Institute for Education)
12.00 – 13.30	Lunch	
13.30 – 15.00	Presentation of the curricula prepared by participants & discussion.	participants
15.00 – 16.00	<p>Report and assessment of the workshop</p> <p>Concluding remarks</p>	All partners

Note 1: Hands'on session put the stress on active pedagogies: experiment, debate, role-playing games, group work, etc. The facilitators animate interactive sessions instead of giving a frontal lecture. Conceptual scenarios are powerful tools to synthesize knowledge, assess the understanding of participants and to prepare a future work on curriculum.

Note 2: Participants will be encouraged to prepare a poster before the workshop, showing their past or present projects on climate change education. Posters will be displayed on Day 1, and informal discussions/presentations will occur during the other days (during coffee breaks, lunch time...).

David Wilgenbus

Chief executive officer at the Office for Climate Education

Astrophysicist by training, I have worked for 17 years (2001-2017) as head of educational resources for the La main à la pâte Foundation. I have coordinated several large-scale educational programs on sustainable development (climate change, housing, mobility, health, natural disasters...) and science (computer sciences, astronomy), which have been implemented in more than 100,000 classes in France and abroad. My expertise lies in science teaching and education for sustainable development; in particular the design of pedagogical projects and teacher training.

In 2017, I coordinated a feasibility study for an international initiative for climate change education, which led to the creation of the Office for Climate Education in 2018.



Mathilde Tricoire

Secondary school teacher and pedagogy officer at the Office for Climate Education

I am a biology and geology teacher. Thanks to my solid scientific background, I have been able to acquire advanced knowledge in biology, geology and climate science. My years of teaching in middle and high school classes in the Loir-et-Cher region have allowed me to develop active teaching methods, at the service of my students. My professional skills are also coupled with a strong personal ecological conviction, which explains my desire to make education on these issues available to as many people as possible.



Dr. Simon Klein

Science officer at the Office for Climate Education

Simon Klein is an ecologist studying pollinators ecology. He also has a teaching diploma. He did his PhD in France (CNRS in Toulouse) and in Australia (Macquarie University, Sydney) and studied the impacts of environmental stressors on social bees behaviour. He then taught biology to bachelor students in France and Australia. In 2019, after his PhD, he facilitated science in the GoodPlanet Foundation for Biodiversity in Paris ; and worked as a biology and geology teacher at the Solertia institut near Paris. Apart from his strong academic and pedagogic engagements, Simon is active in theater making, and is keen on transmitting sciences through comedy.



Pr. Anwar Rumjaun

Anwar Rumjaun is an Associate Professor in the Science Education Department at the Mauritius Institute of Education in Mauritius. His research interests are in Science/Biology Education, Environmental Education/ESD and policy responses to Science Education. He has also been involved in curriculum and textbook development for science in the context of educational reform. He is currently a Senior Honorary Research Associate at the UCL Institute of Education, London, UK. He is also member of the Scientific and Pedagogical Committee of the Climate Education, Paris, France and the Royal Society of Biology, UK.

