



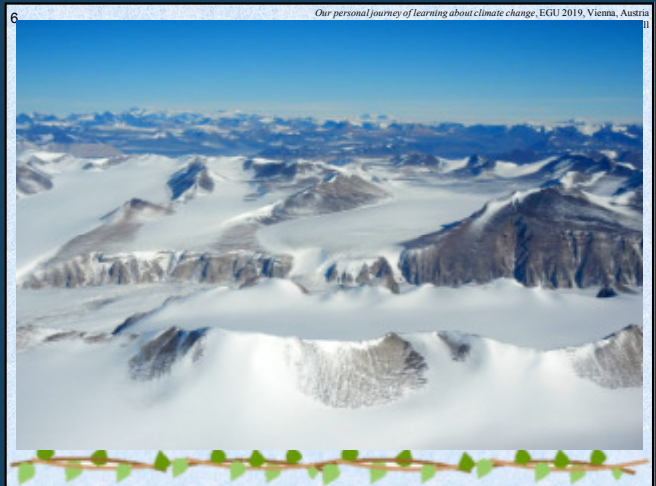
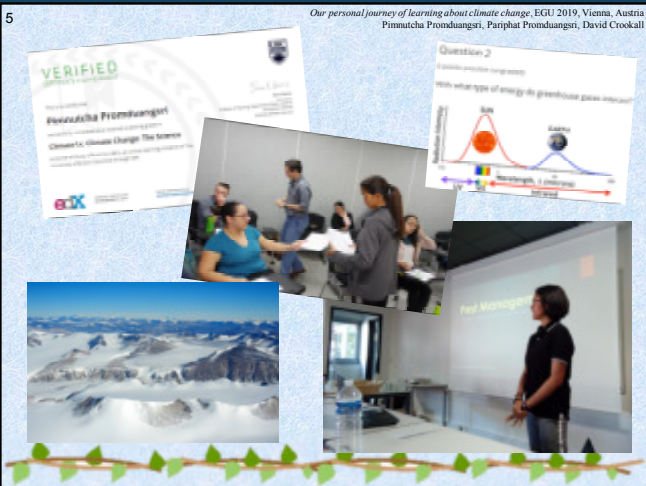
2 *Our personal journey of learning about climate change, EGU 2019, Vienna, Austria*
Pimnutcha Promduangsri, Pariphat Promduangsri, David Crookall

Our personal journey of learning about climate change

by

Pimnutcha & Pariphat
Promduangsri
&
David Crookall

- CCE minimal in our school
- **Other ways to learn CC**
 - Indoors
 - Outdoors



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Thailand
Chamonix
Mercantour
Montpellier
Vienna
Costa Rica
Cannes
Canada



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Thank you Merci

Come to our pico
for the climate
learning ride of
your life ...
before it is too late!

Danke – DE
Gracias – ES
Merci – FR
Ευχαριστώ – GR
Sukria – IN
Grazie – IT
Arigato – JP
Terima kasih – MY
Spasibo – RU
Khop khun – TH
Ta – UK
etc



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Our personal journey of learning
about climate change
We may be the youngest participants at the EGU



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11 Our personal journey of learning about climate change, EGU 2019, Vienna, Austria
Pimnutcha Promduangsri, Pariphat Promduangsri, David Crookall


Home Authors Chalk & talk

Indoors Outdoors

MOOC TPE Mont Blanc
EGU 2017 Films CREA
EGU 2018 ABMS Costa Rica
MED 2000
CC march

Posters Cfp Contact


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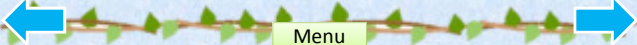
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Personal experience - modes of learning

- Trips to & working in Chamonix-Mont-Blanc
- Working in Costa Rica
- EGU conferences
- MOOC
- CIRAD summer school
- Volunteering in Méditerranée 2000
- Children’s holiday centres
- Films



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Pimnutcha Promduangsri, Pariphat Promduangsri, David Crookall

Convener:
Robin Matthews

Co-conveners:
Ines Blumenthal, Cheryl LB Manning,
M.A. Martin, Jenny Schlüpmann


Authors:
Pimnutcha Promduangsri, Lycée Auguste Renoir
Pariphat Promduangsri, Lycée Auguste Renoir
David Crookall, Université Côte d'Azur
France

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Our 'chalk and talk' classroom

Almost nothing on CC



Best classes when teachers strike

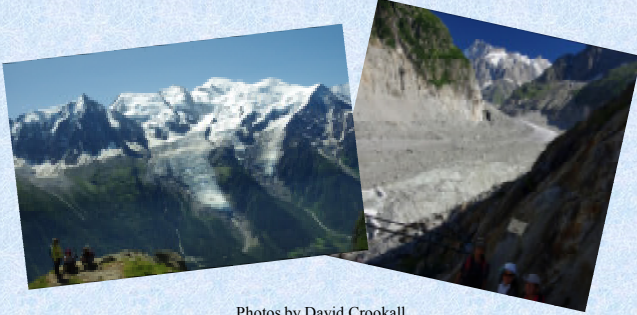
- Most of our classes
 - chalk and talk
 - sit and listen and sleep
- Least boring activities:
 - going to the board and solving exercises
 - practical work

Menu

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Chamonix - Mont Blanc - 1

Massive retreat of the Mer de Glace



Photos by David Crookall

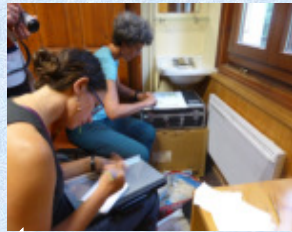

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Chamonix - Mont Blanc - 2

CREA Mont Blanc, Research Center for Alpine Ecosystems

Effect of climate change on mountain ecology



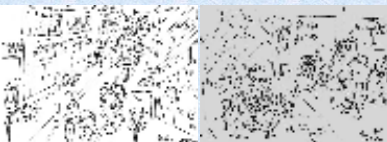



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EGU 2017

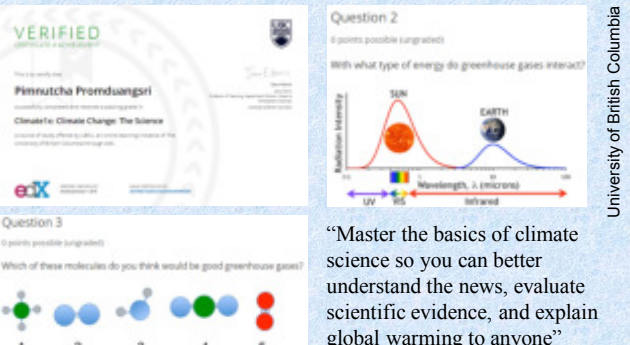
- Meet people
- Oral & poster
- Hands-on activity workshop

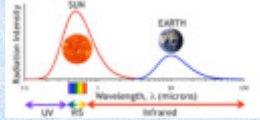
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MOOC 1 - Climate change: The science



Question 2
4 points possible (ungraded)
With what type of energy do greenhouse gases interact?



Question 3
1 points possible (ungraded)
Which of these molecules do you think would be good greenhouse gas?



“Master the basics of climate science so you can better understand the news, evaluate scientific evidence, and explain global warming to anyone”

University of British Columbia

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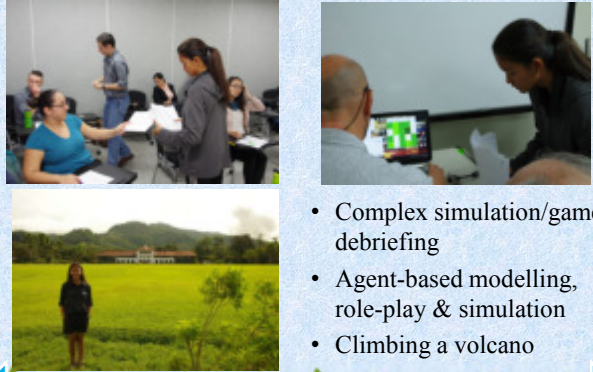
MOOC 2 - assignment

- The impacts of climate change near you
- Assignments :
 - Climate change in the South of France
 - Extreme flooding – example PACA

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Costa Rica




- Complex simulation/game, debriefing
- Agent-based modelling, role-play & simulation
- Climbing a volcano

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EGU 2018

- Opportunity
- Learn effectively
- Sessions:
 - geoscience games
 - geoethics
- 1st Geoscience Games Night
- Meeting people

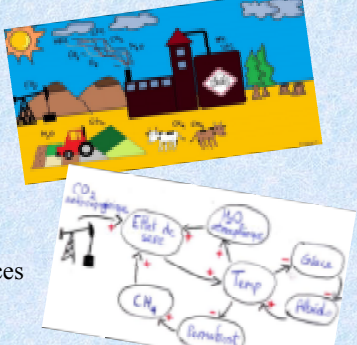


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TPE: Supervised personal project

- Group work report
- French baccalaureate
- Multi-disciplinary
 - Earth sciences
 - Maths
- Causes and consequences of global warming



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ABMS - CIRAD

- MISS-ABMS, **Renewable Resources**, Montpellier, France
- Urban expansion – Gama
- Pest management - NetLogo



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Méditerranée 2000

- Awareness-raising
- Active eco-citizenship



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Climate March, 15th March, Cannes



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Lots of films & documentaries

The World In 2050
[The Real Future Of Earth], BBC
Documentary

- Dramatic demographic changes
- World climate crisis
- Projection for 2050

C'est pas sorcier
French educational TV program

- Greenhouse gases
- Climate history

The Secret of Antartic
Advexon

- Antartica meltdown
- Antartica's climate past

Before the Flood
National Geographic
Leonardo DiCaprio and climate change

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Please visit our posters

- Enhancing experiential climate-change learning methods through **debriefing**
 - Tue, 09 Apr, 16:15–18:00 Hall X4 X4.315
- **The SDGs Values Game: An Interactive Playable Poster**
 - Wed, 10 Apr, 14:00–15:45 Hall X4 X4.228
- **On the necessity of making geo-edu-ethics a central component throughout education**
 - Fri, 12 Apr, 14:00–15:45 Hall X4 X4.360
- **Geo-edu-ethics: Drafting a charter for learning geoethics around the world**
 - Fri, 12 Apr, 14:00–15:45 Hall X4 X4.361

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Learning Sustainability

SPRINGER NATURE

Call for Papers → <https://e4l-jrnl.weebly.com/cfp-se-long.html>

The issue brings together four main areas :

- **sustainability** of the Earth and humanity including the **SDGs & climate change**,
- **experience** (of all kinds),
- **learning**, including experiential learning, and
- **ethics**.

Articles need to be clear, but not necessarily high-brow academic. The journal aims to bridge lay community and science. See Section 2 on the above CFP web page.

e4l.jrnl@gmail.com
Please tell interested friends and colleagues.

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Thank you, merci, khop khun

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