



Venice International University
Summer School
Science Diplomacy in the age of Climate Change
July 15-20, 2024

Faculty

William Pan, Duke University, USA

Giulia Costa, Tor Vergata University of Rome, Italy

Kurt Straif, Boston College, USA

Sonia Silvestri, University of Bologna, Italy

Christian Lara, United Nations, former Duke University Rethinking Diplomacy Fellow

Peter McGrath, Coordinator of the Science Diplomacy Unit, The World Academy of Sciences and Secretariat, InterAcademy Partnership

Camilo De Los Rios Rueda, Duke University & IAI Science Technology & Environment Fellow

Program

Monday, July 15, 2024

Overview: We will introduce the basic concepts and tools of Science Diplomacy, have ice breakers, and group exercises.

9:00 AM	Registration
9:30 AM	Faculty introductions <i>Giulia Costa, Sonia Silvestri, Peter McGrath, Camilo de los Rios, Christian Lara</i>
10:00 AM	Fundamentals of Science Diplomacy <i>Peter McGrath, Camilo de los Rios</i>
11:00 AM	<i>Break</i>
11:15 AM	Ice breakers & Science Diplomacy Case Study in your groups <i>All faculty participating</i>
12:30 PM	<i>Lunch</i>
1:30 PM	Science Advice vs. Advocacy vs. Communication <i>Peter McGrath, Camilo de los Rios</i>
2:30 PM	<i>Break</i>
2:45 PM	Science Diplomacy Case Study <i>Camilo de los Rios, Peter McGrath</i>
6:00 PM	What to Prepare for Tuesday & Adjourn <i>Sonia Silvestri, Giulia Costa</i>



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Tuesday, July 16, 2024

Overview: The MOSE was constructed to protect Venice from annual floods that impact the city. Today we will discuss impacts of floods, planning and construction of the MOSE.

- 9:00 AM **Venice Lagoon & MOSE**
Sonia Silvestri
- 10:30 AM *Break*
- 11:00 AM **Discussion - challenges of public acceptance of MOSE**
Sonia Silvestri
- 12:30 PM *Lunch*
- 1:30 PM **Field Trip to MOSE**
Sonia Silvestri, Giulia Costa
- 6:30 PM *Return*

Wednesday, July 17, 2024

Overview: we will discuss technical solutions in the framework of climate change mitigation/adaptation and potential barriers to their implementation due to poor social acceptance. Starting from the analysis of waste management strategies and the specific example of the project of a waste to energy plant in Rome, we will carry out group activities formulating stakeholder engagement strategies for selected case studies.

- 9:00 AM **Technical solutions for climate change adaptation and mitigation – the case study of waste to energy plants**
Giulia Costa
- 10:30 AM *Break*
- 11:00 AM **Group discussion on technical solutions & public acceptance**
Giulia Costa, Sonia Silvestri
- 12:30 PM *Lunch*
- 1:30 PM **Group Case Studies**
Giulia Costa, Sonia Silvestri
- 3:30 PM *Break*
- 4:00 PM **Groups Report back and discussion**
Giulia Costa, Sonia Silvestri
- 5:00 PM *Adjourn*

Thursday, July 18, 2024

Overview: We will discuss the process and importance of the Climate COP negotiations, how health entered into the Climate COP Agenda, and case studies in climate and health.

- READINGS: Readings 1,2 and 4 are short, Reading 3 a quick orientation reading is ok
1. Loomis et al, 2013 The carcinogenicity of outdoor air pollution
[http://dx.doi.org/10.1016/S1470-2045\(13\)70487-X](http://dx.doi.org/10.1016/S1470-2045(13)70487-X)



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2. Hoffmann et al, 2021, WHO Air Quality Guidelines 2021...
doi:10.3389/ijph.2021.1604465
3. GBD 2021 Risk factor Collaborators, 2024, Global burden and strength of evidence for 88 risk factors... DOI: [10.1016/S0140-6736\(24\)00933-4](https://doi.org/10.1016/S0140-6736(24)00933-4)
4. WHO WHA77 Resolution on Climate Change and Health
https://apps.who.int/gb/ebwha/pdf_files/WHA77/A77_ACONF7-en.pdf

9:00 AM	Climate and health-relevant example of scientific evidence integration (1) The IARC/WHO Monographs on Air Pollution and Cancer <i>Kurt Straif</i>
10:30 AM	<i>Break</i>
11:00 AM	Climate and health-relevant example of scientific evidence integration (2) WHO Air Quality Guidelines and GBD Project <i>Kurt Straif</i>
12:30 PM	<i>Lunch</i>
1:30 PM	Climate COP Negotiations, Context and climate change and health
3:00 PM	<i>Break</i>
3:15 PM	Group Case Studies
5:00 PM	<i>Adjourn</i>

Friday, July 19, 2024

Overview: One health is a systems-based approach to understanding complex problems that affect humans, animals and the environment. You will be introduced to concepts in One Health, participate in case studies and interact with an international panel of experts.

- READINGS:
1. He et.al., 2022 "Social insights on the implementation of One Health..."
 2. Brucellosis Prep Guide

SCHEDULE:

9:00 AM	One Health & Tripartite <i>William Pan</i>
10:00 AM	<i>Break</i>
10:15 AM	Brucellosis Case study <i>William Pan</i>
11:45 AM	Groups Consolidate Brucellosis Timeline
12:30 PM	<i>Lunch</i>
1:30 PM	International Experts Panel – GHSA & Climate Resiliency <i>Christian Lara, William Pan</i> <i>Panel: Dr. David Nabarro (WHO Special Envoy for Covid-19), Dr. Anders Nordstrom (former WHO Director General), Dr. Rick Brennan (Regional Director Middle East and North Africa - WHO Emergencies Program), Mirey Atallah (UNEP Chief of Adaptation and Resilience Branch)</i>

- READINGS: Readings 1 contains the report and Executive Summary, reading 2 short reading (optional), and reading 3 case studies (for group activity):



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1. Independent Panel for Pandemic Preparedness and Response, "[No Time to Gamble Leaders Must Unite to Prevent Pandemics](#)" 2024 and [Executive Summary](#):
2. Willetts, Elizabeth et al "[Managing the Health Risks of Climate Change.](#)" [CFR Policy Paper](#)" 2023
3. The Inter Academy Partnership (IAP) & Save the Children, "[Climate and Health: Science-based policy solutions](#)" 2024

2:45 PM *Break*

3:15 PM **Group Activity: Understanding the Structure of the United Nations**
Christian Lara

5:00 PM *Adjourn*

Saturday, July 20, 2024

Overview: On this last day we explore how global pandemic preparedness indexes, conduct a case study on Avian influenza and wrap-up the workshop

READINGS:

1. PREFACE: The End of Epidemics 2020, 2021
2. Avian Influenza Case Study

9:00 AM **Pandemic Preparedness: Environmental Change & Emerging Infectious Disease
Global Health Security Indices**
William Pan

9:30 AM **Group Case Study: Avian Influenza**
William Pan, Christian Lara, Camilo de los Rios

11:30 AM **Wrap-up with Faculty and Farewell Reception**

12:30 PM *Adjourn*