



**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, Duke University Rethinking Diplomacy Fellow – United Nations

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 conduct a Climate FRESK.

9:00 AM	<b>Registration</b>
9:30 AM	<b>Faculty introductions</b> <i>William Pan, Kurt Straif, Sonia Silvestri, Giulia Costa, Peter McGrath, Camilo de los Rios</i>
10:00 AM	<b>Fundamentals of Science Diplomacy</b> <i>Peter McGrath, Camilo de los Rios</i>
11:00 AM	<i>Break</i>
11:15 AM	<b>Ice breakers &amp; Science Diplomacy Case Study in your groups</b> <i>All faculty participating</i>
12:30 PM	<i>Lunch</i>
1:30 PM	<b>Science Advice vs. Advocacy vs. Communication</b> <i>Peter McGrath, Camilo de los Rios</i>
2:30 PM	<i>Break</i>
2:45 PM	<b>Climate FRESK</b> <i>William Pan with faculty facilitators</i>
6:00 PM	<b>What to Prepare for Tuesday &amp; Adjourn</b> <i>William Pan, 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*
- 5:30 PM *Return*

## Wednesday, July 17, 2024

Overview: Solid waste contributes to greenhouse gases through methane production in landfills and nitrous oxide from combustion. Today we discuss mitigation of greenhouse gas emissions from solid waste.

- 9:00 AM **Solid Waste Management solutions – the case 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 path from individual research to evidence integration for policy with a focus on effects of the climate crisis on non-communicable diseases. We introduce concepts of causal inference in medicine and public health and present an instructive case study on the assessment of environmental risk factors for cancer using the IARC/WHO Monographs programme.

- 9:00 AM **Global Public Health and Pollution  
Framework of Hazard identification, Risk Assessment, and Risk Management**  
*Kurt Straif*
- 10:30 AM *Break*
- 11:00 AM **Cancer and NCDs**  
*Kurt Straif*



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12:30 PM	Lunch
1:30 PM	<b>Selected current issues in causal inference, Discussion of recent and prominent examples</b>
3:00 PM	Break
4:00 PM	<b>Group Case Studies</b>
5:00 PM	Adjourn

### Friday, July 19, 2024

Overview: We will explore how climate and environmental changes are contributing to the emergence of infectious diseases. We will study global pandemic preparedness indexes, one health concepts and case studies related to Avian influenza and brucellosis.

- READINGS:**
1. PREFACE: The End of Epidemics 2020, 2021
  2. He et.al., 2022 "Social insights on the implementation of One Health..."
  3. Brucellosis Prep Guide
  4. Avian Influenza Case Study

### SCHEDULE:

9:00 AM	<b>Pandemic Preparedness: Environmental Change &amp; Emerging Infectious Disease Global Health Security Indices</b> <i>William Pan</i>
10:30 AM	Break
11:00 AM	<b>Group Case Study: Avian Influenza</b> <i>William Pan</i>
12:00 AM	<b>Groups report back</b>
12:30 PM	Lunch
1:30 PM	<b>Tripartite &amp; One Health</b> <i>William Pan, Christian Lara</i>
2:30 PM	Break
3:00 PM	<b>Brucellosis Case study</b> <i>William Pan, Christian Lara</i>
5:00 PM	Adjourn

### Saturday, July 20, 2024

Overview: The COP28 Director-General has declared one day for the upcoming COP in Dubai will be dedicated to discussing adaptation and mitigation strategies for climate impacts on health. We will discuss how people engage with the COP and experiences we have in discussing science with COP negotiators.

9:00 AM	<b>Experiences with the COP</b> <i>Christian Lara</i>
10:15 AM	Break
10:30 AM	<b>Discussion Groups: Science Diplomacy in at the COP</b> <i>Christian Lara</i>

- 11:00 AM **Group reports (5 minute summaries). Assign Group Rapporteur & Speaker**  
*Christian Lara*
- 11:30 AM **Wrap-up with Faculty and Farewell Reception**
- 12:30 PM *Adjourn*

