

December 17-22, 2022 - Edipsos-Euboea, Greece



Science, Health, Economy, Social Sustainability

**Interdisciplinary
School for
Environmental
Crisis**



INVITATION FOR APPLICATIONS

The ARISTEiA - Institute for the Advancement of Research & Education in Arts, Sciences & Technology (www.aristeia.us) is inviting applications for the "Interdisciplinary School on Environmental Crisis (ISEC) " The 6-days course is tuition-free and will be conducted in English.

The aim of the ISEC is to foster interdisciplinary dialogue for addressing environmental crisis-related problems by merging:

1. Environmental Sciences
2. Health & Life Sciences
3. Engineering
4. Economical Sciences
5. Law
6. Social Sciences

DESCRIPTION

The program has the following main components:

1. Lectures about the most recent breakthroughs and current trends in several topics of basic and applied research.
2. Development of interdisciplinary culture and problem-solving skills
3. Student group projects studying a problem. The problem and proposed solutions will be presented and evaluated.
4. Career development sessions.

ELIGIBLE APPLICANTS

Applications may be submitted by students, who pursue academic courses or research in one of the areas listed above and excel (Top-20% in their class) as members of any of the following groups:

- **Senior undergraduate students.** At the time of application, a student applicant must be a senior undergraduate (final 2 year of studies including students in Engineering, Medical Schools and Pharmacy Schools).
- **Graduate students** (MSc, MPhil, PharmD, PhD programs).

The scientific board and the evaluation committee will select 30 students among applicants from Greece and abroad. Participants will be selected according to their academic record and potential to develop to prominent figures of Academia or industry. The ISEC in cooperation with generous donors will cover the following expenses:

- Hotel staying in Edipsos (December 17 - 23, 2022) including breakfast and lunch.
- Transfers between Athens International Airport and location of the ISEC

REQUIRED APPLICATION DOCUMENTS

- Curriculum Vitae

For undergraduate students: 1 page

For graduate students and doctorate candidates: up to 2 pages.

- Personal Statement (up to 500 words)

- Academic Transcript

Applications can be submitted online (www.ARISTEiA.us/ISEC)

by April 30, 2022 (11:59 pm EST).

Interdisciplinary School for Environmental Crisis

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December 17-22, 2022

Thermae Sylla Spa & Wellness Hotel, Edipsos, Euboea, Greece

DAY 1: December 17

Arrivals

- Opening session**
- 6:00 – 6:15: **Introductions**
- 6:15 – 6:45: **Stavros Mpenos** (Chairman of the Committee for the Restoration of Northern Euboea)
Life in Northern Euboea after the devastating wildfires of 2021
- 6:45 – 7:30: **Opening Keynote lecture**
Georges Prevelakis (Professor emeritus, Sorbonne (Paris 1))
Geopolitical challenges of Environmental Crisis
- 8:00 **Dinner**

DAY 2: December 18

- 7:00 – 8:00: Breakfast**
- 8:00 – 9:30: **Spyros Pandis** (University of Patras, Greece)
Air Pollution and Climate Change: Mitigation strategies?
- 9:45 – 11:00: **Vasilis Vasiliou** (Yale University, USA)
Environmental crisis: Consequences in metabolic balance and human health
- 11:15: 12:30: **Margo Tsirigotis-Oge** (former director – Environmental Protection Agency, USA)
Government and the private sector must collaborate to reduce the worst impacts of climate change
- 12:30 – 2:00: Lunch Break**
- 2:00 – 5:00: **Student group study**
Preassigned projects aiming to address environmental problems
- 5:30 – 6:30: **“Meet the Professor”**
Groups of up to 6 students discuss with faculty about science and career development
- 6:30 – 9:00: Dinner**
- 9:00 – 10:15: **Sakis Mantalaris** (Georgia Institute of Technology, USA)
Interdisciplinary Group Philosophy and How not to give a bad presentation

DAY 3: December 19

- 7:00 – 8:00: Breakfast**
- 8:00 – 9:30: **Despo Fatta-Kassinou** (University of Cyprus)
Strategies and technologies for clean water
- 9:45 – 11:00: **Natalia Linos** (Harvard School of Public Health, USA)
From climate change to challenges of the public health care systems
- 11:15: 12:30: **Stratos Tavoulareas** (George Washington University, USA)
Integrating renewables in the power grid: The way forward
- 12:30 – 2:00: Lunch Break**
- 2:00 – 5:00: **Student group study**
Preassigned projects aiming to address environmental problems
- 5:30 – 6:30: **“Meet the Professor”**
Groups of up to 6 students discuss with faculty about science and career development
- 6:30 – 9:00: Dinner**
- 9:00 – 10:15: **Vassilis Karavas** (Managing Partner/Founder, UPIQ Group; Director, Aries Power; USA & UK)
Stratos Tavoulareas (George Washington University, USA)
Prepare a successful Business Plan

DAY 4: December 20

7:00 – 8:00: Breakfast

8:00 – 9:30: **Apostolis Koutinas** (Agricultural University of Athens, Greece)
Biorefinery from renewable resources: State-of-the-art

9:45 – 11:00: **Georgios Chamilos** (University of Crete, Greece)
New pathogens vs. Human body defensive mechanisms

11:15: 12:30: **Kyriaki Noussia** (University of Reading, UK)
Environment and the Law: Present and Future Developments

12:30 – 1:00: Lunch Break

1:00 Leisure – Local excursion for students

2:00 – 6:30: **Ημερίδα: "Επανεκκίνηση μετά την περιβαλλοντική καταστροφή"**
Ομιλητές & Θέματα
Συζήτηση στοργυλής τράπεζας

6:30 – 9:00: Dinner

DAY 5: December 21

7:00 – 8:00: Breakfast

8:00 – 9:30: **Georgia Destouni** (Stockholm University, Sweden)
Climate Change and Water: Current state – how can we clean our mess up?

9:45 – 11:00: **Manolis Kogevinas** (Barcelona Institute for Global Health – ISGlobal, Spain)
Environmental Pollution: "Polluting" human health

11:15: 12:30: **Anastasios Xepapadeas** (Athens University of Economics & Business, Greece)
Environment and Sustainable Economic and Social Development

12:30 – 2:00: Lunch Break

2:00 – 5:00: **Student group study**
Preassigned projects aiming to address environmental problems

5:30 – 6:30: **"Meet the Professor"**
Groups of up to 6 students discuss with faculty about science and career development

6:30 – 9:00: Dinner

9:00 – 10:15: **Konstantinos Drosatos** (University of Cincinnati, College of Medicine, USA)
Publish, fund and advertise your next career step

DAY 6: December 22

7:00 – 8:00: Breakfast

8:00 – 8:30: Student group A presentation

8:30 – 9:00: Student group B presentation

9:15 – 9:45: Student group C presentation

9:45 – 10:15: Student Group D presentation

10:30 – 11:00: Student Group E presentation

11:00 – 11:30: Student Group F presentation

12:00 – 12:45: Closing Keynote lecture

Michael Haliassos (Professor, Goethe University Frankfurt)
Environmental pressure on household finances

1 pm: Student awards & Group Photo

DEPARTURES