

PhD in Energy and Sustainable Development

A.Y. 2021 - 2022

Structured educational offer program

Coordinator: prof. Franco Cotana

Lecturer: **prof. Franco Cotana***

Title: Presentation of the PhD course and seminar on Energy Transition
12/11/2021, time: 12:00-13:30

Lecturer: **prof. Alberto Moya Lopez*** - University of Jaen - Spain

15/11/2021, time: 10:00- 13:00

17/11/2021, time: 10:00- 13:00

"Biotechnological utilization of agricultural residues. An overview and some particular cases"

19/11/2021, time: 10:00-13:00

"Olive oil technology. General considerations about tasting"

Lecturer: **Law. Giovanni Cogo***

Title: National and European legislation on urban waste management

Duration: 12 hours

Period:

06/12/2021, time: 09:00 - 13:00

13/12/2021, time: 09:00 - 13:00

20/12/2021, time: 09:00 - 13:00

Conference Chair: **prof. Anna Laura Pisello**

Title: 1st International Conference on Health & Environmental Resilience and Livability in Cities (HERL) - The challenge of climate change

19/01/2022, time: 09:30 - 17:00

20/01/2022, time: 09:30 - 17:00

Lecturer: **prof. Elie Bou-Zeid** - Princeton University

Title: Energies and cities: fundamentals to understand urban heat islands and mitigation opportunities

Duration:6 hours

Period:

26/01/2022, time: 10:00 - 13:00

28/01/2022, time: 10:00 - 13:00

Lecturer: **Dr. Valentina Coccia**

Title: Evaluation and measurement of odor emissions into the atmosphere by means of dynamic olfactometry with a panel of human receptors

N. hours: 16

Period:

21/02/2022, time: 9:00- 13:00

22/02/2022, time: 9:00- 13:00

23/02/2022, time: 9:00- 13:00
24/02/2022, time: 9:00- 13:00

Lecturer: **Prof. Gianluca Cavalaglio**

Title: Green chemistry applications for bioenergy and bioproducts plants

Duration: 16

Period:

09/03/2022, time: 9:30-13:30

16/03/2022, time: 9:30-13:30

23/03/2022, time: 9:30-13:30

30/03/2022, time: 9:30-13:30

Lecturer: **prof. Ann Anderson, Prof. Mary Carroll** Union College, Schenectady NY USA

Title: "Introduction to Aerogels"

Duration: 18 hours

Period:

5/4/2022

Time: 10:00 - 12:00 Introduction to Sol-Gel Chemistry (Carroll)

6/4/2022

Time: 10:00 - 12:00 Aerogel Drying Methods (Anderson)

7/4/2022

Time: 10:00 - 12:00 Aerogel Chemistry (Carroll)

8/4/2022

Time: 10:00 - 12:00 Properties & Characterization Methods 1 (Anderson)

12/4/2022

Time: 10:00 - 12:00 Properties & Characterization Methods 2 (Anderson)

14/4/2022

Time: 10:00 - 12:00 Applications - Aerogel Glazings (Anderson)

20/4/2022

Time: 10:00- 12:00 Applications - Use of Aesthetics in Aerogel Window Design (Anderson)

21/4/2022

Time: 10:00- 12:00 Applications - Building Insulation (Anderson)

26/4/2022

Time: 10:00- 12:00 Applications - Pollution Mitigation (Anderson)

XXII CIRIAF CONGRESS

Period: April 2022

ECTS: 1 (National Congress)

Lecturer: **prof.ssa Flavia Marcacci** - Pontifical Lateran University

Title: From Mechanism to Energy: the relationship between science and technology

Duration: 6 hours

Period: May 2022

* courses already provided.