



SEDIMARE

Introductory Training School

Period: 18 – 20 December 2023

Venue: Marche Polytechnic University – Faculty of Engineering, *c-Lab*, Room *c-Class* (Q155)

TOPICS

1. Coastal Hydrodynamic and Morphodynamic Processes
2. Coastal Structure Design
3. Modelling of Coastal Hydro-Morphodynamics
4. Integrated Coastal Zone Management

PROGRAM

Monday 18/12

- 09.00 *Opening greetings from UNIVPM representatives*
- 09.20 *Introduction*
 - o Coordinator of SEDIMARE, **Athanassios Dimas**
 - o Hosting institution UNIVPM, **Matteo Postacchini**
- 09.30 “Water waves: from the offshore to the swash zone” (**Athanassios Dimas** - UPATRAS)
- 11.00 Coffee break
- 11.30 “Coastal sediment transport” (**Jebbe van der Werf** - DELTARES)
- 13.00 Lunch at “Il Rustico”
- 14.30 “The mathematics of morphodynamic pattern formation” (**Nicholas Dodd** - UNOTT)
- 16.00 Coffee break
- 16.30 “Stability methods in coastal morphodynamics” (**Pieter Roos** - UTWENTE)
- 18.00 *The role of Doctoral Candidates in the Network* (introduction from each DC and description of Doctoral Network from Coordinator)



Tuesday 19/12

- 09.00 Departure for the field trip
- 10.00 Visit to the monitoring system of Senigallia (harbor, coast, Misa River and its estuary)
- 12.00 Return to Ancona
- 13.00 Lunch at "Il Rustico"
- 14.30 "Nearshore evolution for sandy coasts in a climate change environment. Application to coastal adaptation plans" (**Javier Lopez Lara** – FIHAC)
- 16.00 Coffee break
- 16.30 "Coastal processes & coastal management" (**Michiel Knaapen** – HRW - *VIRTUAL*)
- 18.00 Closing remarks

Wednesday 20/12

- 9.00 Speech by **Giovanni Serritella**, Manager for Environment and Climate Change at European Union - Delegation Philippines: "European Commission's cooperation with South-East Asia on Earth Observation and Climate Change Resilience"
- 9.30 "Hydro-morphodynamic modeling of water waves in shallow waters" (**Matteo Postacchini** - UNIVPM)
- 11.00 Coffee break
- 11.30 "LES numerical modeling of coastal sediment transport" (**Athanassios Dimas** - UPATRAS)
- 13.00 Lunch at "Il Rustico"
- 14.30 "Fundamentals of continuum modeling of solid-fluid mixtures" (**Miltiadis Papalexandris** – UCL – *VIRTUAL*)
- 16.00 Coffee break
- 16.30 "Case studies of sediment mobility implications for offshore developments: an industry perspective" (**Benoît Spinewine** – FUGRO)
- 18.00 Closing remarks



HOW TO GET HERE?

Venue (Marche Polytechnic University – Faculty of Engineering – **c-Lab, Room c-Class**):

<https://maps.app.goo.gl/Rr64AiJNssCHzBhJA> (follow the **yellow path** in the map at Figure 1, then the **c-Lab** is **2 levels above**, at Q155)

Ancona Airport Raffaello Sanzio: <https://maps.app.goo.gl/ptGXdLJmirvPUA9W8>

Ancona main train station: <https://maps.app.goo.gl/XMstTZDPgPFnn6vt5>

TRAVELING IN ANCONA

The public transport in Ancona is all about buses (*Conerobus company*), which well connects both city center and main train station to the Faculty of Engineering.

- Connection between city center (around Piazza Cavour, Piazza Roma) and Faculty of Engineering: **line 46**, which brings you directly to the main entrance of the Faculty.
- Connection between main train station and Faculty of Engineering: **lines 1/4** (more frequent) or **44**, which bring you to Tavernelle (last stop of 1/4 but not for 44).
 - o From here, you can either wait for the **46 bus** or walk to the Faculty of Engineering (about 10 minutes walk uphill).

Tickets can be bought in many retailers (e.g., “Sali and tabacchi” shops, kiosks) or directly in the bus, and there are many different rates (see: <https://www.conerobus.it/tariffe/tariffe-urbane-ed-extraurbane/tariffe-urbano-ancona/>).

An alternative is the App **MooneyGo**, specifically suited for the mobility in many Italian municipalities.

ACCOMMODATION

Here below, some suggestions of hotels located in the central area of Ancona.

- **City Hotel***** - 2 minutes from the city center: <https://www.thecityancona.it/en/>
- **Grand Hotel Passetto****** - close to the famous Passetto monument: <https://www.grandhotelpassetto.com/en-GB>
- **Seeport Hotel****** - over the city port and 5 minutes to the city center: <https://www.seeporthotel.com/en-GB>

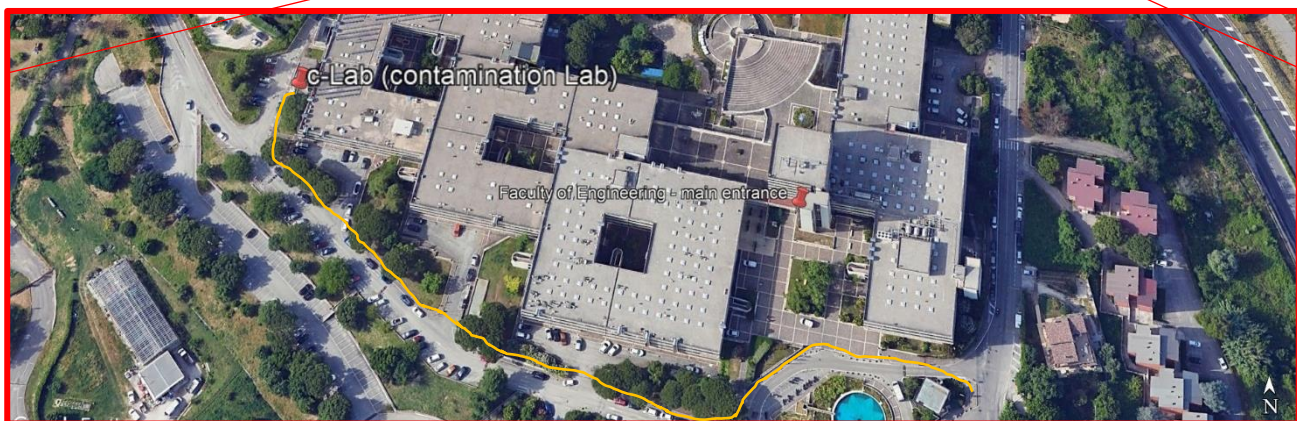
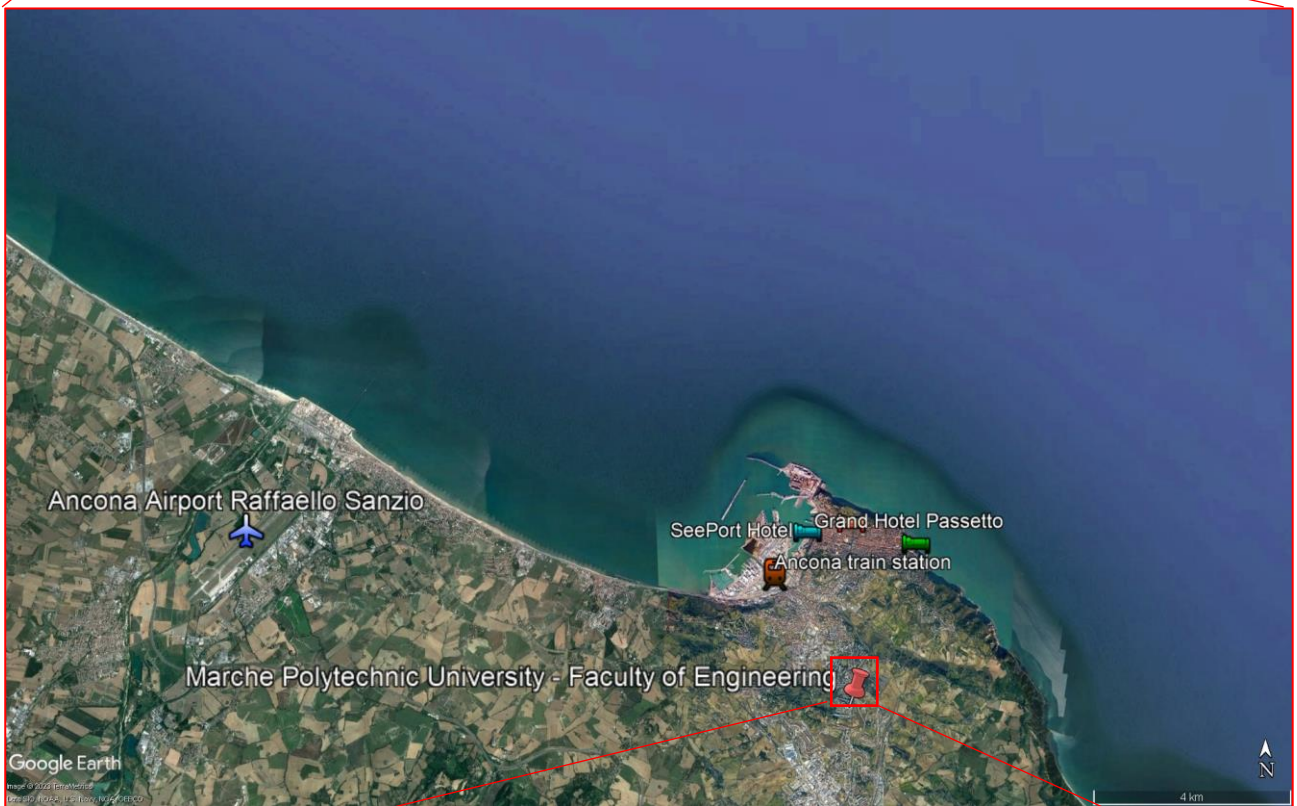
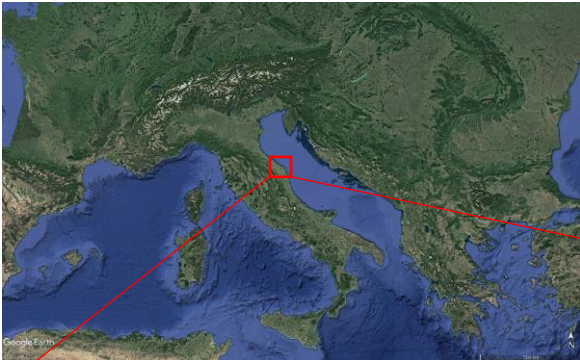


Figure 1 – In yellow: path between the 46 bus stop and c-Lab (the room is 2 levels above, at Q155)