



1st Network Training School

April 22nd – 24th, 2024

Numerical Methods in Coastal Hydrodynamics and Sediment Transport

The University of Nottingham,

University Park Campus, Coates Building, Room C27

April 22, Monday (Day 1)

9:00-10:30

- Introduction (5 min): Short introduction by the REA Project Officer and the Project Coordinator on the purpose of the meeting.
- SEDIMARE Research teams (40 min): All scientists-in-charge from Beneficiaries and Associated Partners should briefly present their research team and describe their role within the Network.
- REA Project officer presentation (60 min): Presentation on the monitoring of project implementation, reporting and purpose of the mid-term check, including:
 - MTM objective
 - Assessment of recruitment / Reminder of DCs rights & obligations
 - Project Management
 - Reporting & finance
 - Communication, Dissemination, Exploitation, Synergies
 - Useful links & reference documents

10:45-11:00

Coffee/tea break (in presentation room)

11:00-12:30

- Project Coordinator's presentation (30 min): Presentation of the Network and the progress covering the following aspects:
 - State of play of the recruitment, deliverables and milestones;

- Ethics issues (if applicable);
- Management activities (Supervisory board activities, etc.);
- Financial aspects (if necessary);
- Critical implementation risks and mitigation actions;
- Any proposed re-orientations of the networks' activities;
- Document management and Open Science.
- DC introductions (12 DCs): DCs will present themselves, their background and their individual research project (foreseen research, training, secondments, etc.). Scientific results are not expected at this stage, therefore, max 5 min each.

12:30-14:00

Lunch.

14:00-15:30

- DC presentations (12 DCs): DCs will present work done so far especially in terms of literature review and research planning; max 7-8 min each.

15:30-17:00

- Restricted session with the DCs (1 hr): the session is intended to allow the researchers to discuss with the REA representative about their experiences within the network in terms of training foreseen, supervision arrangements, progress and impact on their future careers. The main focus will be on:
 - Administration: awareness of the grant agreement provisions, working conditions (employment contracts compliant with the Annex V of the grant agreement, eligible allowances, visa issues, administrative support, tuition fees);
 - Supervision and integration: quality of the supervision, integration within the research team/the network/ the host institution/the country, career development plans;
 - Training: effectiveness of the Career Development Plan, individual research projects, secondments, PhD enrolment, attendance of external courses/workshops/conferences, language courses and complementary skills training;
 - For ID, 50% exposure to the non-academic sector; for JD, PhD requirements at each hosting institution, enrolment and recognition of double/joint doctoral degree and hosting arrangements (not for SEDIMARE);
 - Awareness of the European Charter for Researchers.

For the meeting with the Project Officer, the DC representative(s) (if any) may summarize the DCs' feedback in a couple of slides to briefly present their experience in the network and the project (by highlighting what is positive and what could be improved). Questions could be also collected in advance as a basis for discussion during the meeting.

17:00-17:30

- Restricted session: Meeting between Project Coordinator and Project Officer to discuss any issue (15 min).
- Feedback and open discussion: Feedback from the REA Project Officer on the output of the Network so far, on possible training areas for future exploitation or the impact on DCs' future careers development (15 min).

19:30 Evening meal at Kayal, 8 Broad St, Nottingham NG1 3AL

April 23, Tuesday (Day 2)

- 08:45-09:00 Announcements
- 09:00-10:30 Albert Falqués, Universitat Politècnica de Catalunya
Q2Dmorfo: a reduced complexity model for long term coastal dynamics
- 10:30-11:00 Coffee / tea (in presentation room)
- 11:00-12:15 N. Volp, University of Twente.
Find your course in choosing between coarse grids, fine grids, unstructured grids, quadtree grids and subgrids
- 12:15-14:00 Lunch
- 14:00-15:15 A. Dimas, University of Patras.
Modelling of coupled hydrodynamics, sediment transport and bed morphodynamics
- 15:15-15:45 Break
- 15:45-17:00 M. Papalexandris, Catholic University of Louvain.
Application of the projection method for the Navier Stokes equations to two-phase flow solvers

Evening meal possible. To be confirmed.

April 24, Wednesday (Day 3)

- 09:00-10:15 M. Alvarez, University of Cantabria
Blending coastal morphodynamic models and observations through data assimilation
- 10:15-10:45 Coffee / tea (in presentation room)
- 10:45-12:00 R. Briganti, University of Nottingham
Wave resolving numerical modelling of swash zone hydro- and morphodynamics
- 12:00-14:00 Lunch
- 14:00-15:15 M. Postacchini, Università Politecnica delle Marche
Modelling eddies and coherent structures in the coastal area.
- 15:15-15:45 Break
- 15:45-17:00 M. Knaapen, HR Wallingford
Calibration and verification of sediment transport models in the real world

Getting to your hotel from the Railway Station: Both Ibis and Park Plaza hotels are within walking distance (11 and 13 minutes respectively according to google) from the railway station. If you have a lot of luggage we suggest getting a taxi from the station. There are also plenty of buses that stop immediately opposite the railway station, some of which will go to the city centre (about 2 minutes away). If you prefer this option then we suggest asking the bus driver if he/she goes to Maid Marian Way (Park Plaza), or near to Fletcher Gate (Ibis). For the Orchard hotel see “Venue” below.

If you are arriving by bus from East Midlands Airport: then either you can request to get off at the railway station and proceed as above, or, again as above, ask your driver to tell you when you get to the nearest stop to either Fletcher Gate (Ibis) or Maid Marian Way (Park Plaza).

By car: The university has visitor car parking, which you’ll have to pay for. Details can be found at <https://www.nottingham.ac.uk/estates/security/carparking/home.aspx>
Locations of the visitor car parks can be found on the PDF campus map (see below).

Venue: A map of the University Park Campus can be found at: <https://www.nottingham.ac.uk/about/visitorinformation/mapsanddirections/universityparkcampus.aspx> including a downloadable PDF format map. You can travel from the city centre to the University Park campus by bus or tram. Information about these can be found at <https://www.nottingham.ac.uk/sustainability/transport/publictransport/publictransport.aspx> where it lists the three bus companies, and the various routes that include University Park; and the tram stops, and also how to buy a ticket. As you’ll see there are a number of different buses that can be caught.

On campus: Please come to **Room C27** of the **Coates Building** (building 36 on the PDF campus map). Enter the Coates Building Entrance 4 (you’ll see C27 referenced there), go up two flights of stairs to C level, and turn to your left, and there you’ll see the seminar room C27.



Entrance 4, Coates Building (left), and entrance 4 doors (right)

Please arrive by 08:30-08:45 so we can make a prompt start.

N.B. For those travelling by train / bus, but wanting to go direct to the University Park Campus: we would suggest getting off at the railway station and going by taxi to University Park, Coates Building. The next quickest option would be getting off at the railway station and travelling by tram.