

Training workshop:

**“Drivers of biodiversity in wetland ecosystems**

**Soil related processes across chronosequence in Braila Islands LTSER site”**

**Braila Islands LTSER, Romania**

**14th – 17th April 2019**

**Day 1                      14<sup>th</sup> April**

10.00	Arrival in Bucharest
10.30- 14.00	Departure for Braila
14.00	Arrival in Braila
14.30 – 15.30	Lunch
16.00 - 1800	Preparation of the school activities
18.00- 21.30	Official dinner and event opening

end of day 1

**Day 2                      15<sup>th</sup> April**

Session chair: Mihai Adamescu

8.00 – 9.00	Breakfast and registration (Logistic aspects – including signing the labour protection documents)
9.00–9.25	Welcome, Presentation of the spring school aim and general overview, presentation of the speakers and participants
9.25- 9.45	What is LTER, LTSER and why Braila Islands is an LTSER; Research activities at RCSES –Dr. Mihai Adamescu
9.45- 10.00	Wetland loss in Lower Danube River - Dr. Constantin Cazacu
10:00 - 10:45	Land management - Relating soil structure and soil fertility –Dr. Nikos Nikolaidis (45 min)
10.45- 11.00	Questions and discussions
11.00- 11.15	Coffee break
11.15– 12.30	Soil structure dynamics and Carbon sequestration modeling –Dr. Nikos Nikolaidis (45 min)
12.30-12.45	Questions and discussions
12.45- 13.15	Carbon cycle and the importance of CO <sub>2</sub> soil respiration measurements – equipments protocol and technical implication (dr. Vasile Turcu)
13.15 – 13.45	Procedures for soil aggregate analysis and nutrient sequestration (Dr. Emil Dimitrov and Dr. Nikos Nikolaidis) (30 min)

13:45–14.45	<i>Lunch break</i>
14:45 - 15:00	Site selection for field activities and presentation of already existing data (Dr. Mihai Adamescu & Dr. Constantin Cazacu)
15:00 - 15:30	Introduction to soil arthropods and setting up the Berlese funnels – (Dr. Elli Groner) (45 min)
15:30 - 16:00	Questions and discussions
16:00 - 16:15	<i>Coffee break</i>
16:15 - 17:15	Using the QBS index as an indicator for soil quality – (Elli Groner) (30 min)
17:15 – 18.00	Exercise – characterizing the arthropods according to their adaptation to soil: identification exercise – (Tamir Rosenberg) (45 min)
18.00- 19.30	Discussions
19.30	Dinner
<i>end of day 2</i>	

**Day 3                      16<sup>th</sup>April**

9.00                      Departure for field activities

Travel by cars (we are providing 2 cars for field activities). This is a weather depended activity. Travel to the site is about 1<sup>1/2</sup> hours. Lunch will be provided on site – cold food. Protocols will be published and they will include maps;

Field measurements:

1. Sample soils and extract the fauna using Berlieze traps;
2. Soil analyses for further analysis (wet sieving and dry, water stable aggregate fractionation, Carbon, nitrogen and phosphorus content;
3. Soil hydraulic properties analysess
4. Invertebrates:sampling for Arthropods
5. Decomposition
6. Field visit at the piezometer field to download the data from sensors
7. Soil Respiration

18.00- 19.30                      travelling back from field

19.30                      Dinner

*end of day 2*

**Day4                      17<sup>th</sup> April**

Session chair: Constantin Cazacu

9:00 - 9:30	Setting up a decomposition experiments; protocols; data from previous experiments implications for Danube floodplains (Dr.Preda Elena)
9:30 - 10:15	Data analysis CO2 measurements (Dr. Vasile Turcu)
10:15 – 10.30	LTER & LTSER Standardisation tools (Constantin Cazacu)
10:30- 10.45	<i>Coffee break</i>
10.45 – 11.15	Protected areas and Ecosystem services in Romania. Wetland cases: Romanian floodplain – scenarios for reconstruction (Mihai Adamescu, Constantin Cazacu & Preda Elena, Nicoleta Geamana, Relu Giuca, Magdalena Bucur)
11:15- 11:45	Conclusions from lecturer and from each participant; Discussions

***end of spring school***

12:00- 13:00	<i>Lunch break</i>
13:00–16:00	Trip to Braila Islands by boat
16.30	Departure to Bucharest
19.30	Arrival in Bucharest Hotel Siqua
20:00	Dinner in the old city center

**Day 5                      18<sup>th</sup> April**

Departure