



## Welcome to the MARIGREEN 2024 Summer School!

Are you a bachelor student, master student, Ph.D. student, postdoctoral candidate, or even a young researcher interested in the valorization of marine-based residue materials? If so, we invite you to a summer school entitled “**From Blue to Green: Valorization of Marine Residue-based Materials as Fertilizers**” under the MARIGREEN project.

The project "**Sustainable Utilization of Marine Resources to Foster Green Plant Production in Europe**" aims at valorizing residual materials from the blue sector by treating them with appropriate technologies for application in agriculture.

**Dates:** 27-31 May 2024

**Location:** The University of Agronomic Sciences and Veterinary Medicine of Bucharest, Bucharest, Romania

### **Here are some questions that will be answered during the summer school:**

How to select the proper blue residual materials as soil amendments and why do we need them? What are the processing methods to obtain fertilizers/biostimulants (drying, pelletizing, composting, compost tea extraction, and biochar impregnation)? How do plants respond when blue fertilizers are applied? What are the costs associated with this type of fertilizers? Is there a market in Europe for blue fertilizers?

### **General aspects:**

The summer school is free for anyone with an interest in valorizing blue materials. The main language is English. Participants are responsible for travel to/from USAMV Bucharest and accommodation, as well as other personal expenses. Space is limited, and attendance is restricted to a maximum of 20 persons for lectures and practical approaches by direct invitation only. More details will follow.

### **Registration:**

Please express your interest in participating in the summer school by completing the following [Form](#) before May 15<sup>th</sup>, 2024.

*Yours sincerely,*

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*This summer school is a collaboration between the MARIGREEN project (<http://www.marigreen-project.eu/>), the SeaSoil project (<https://www.seasoilproject.eu/>) and the SuMaFood project (<https://sumafood.eu/>) which are funded by the ERA-NET BlueBio Cofund (<https://bluebioeconomy.eu/projects/>)*

### Monday, 27.05.2024 (RO time)

8:30-9:00	Registration
9:00-9:10	<b>Welcome to USAMV</b> <i>Gina Fintineru, Vice-Rector Scientific Research, USAMV</i>
9:10-9:20	<b>Welcome to the Research Center for Studies for Food Quality and Agricultural Products</b> <i>Liliana Bădulescu, Head of the Research Center, USAMV</i>
9:20-9:30	<b>MARIGREEN PROJECT - overview</b> <i>Oana Cristina Pârvulescu, Project coordinator, POLITEHNICA Bucharest, Romania</i>
9:30-10:00	<b>Classification and role of plant nutrients</b> <i>Roxana Madjar, University of Agronomic Sciences and Veterinary Medicine (USAMV), Romania</i>
10:00-10:30	<b>AlgaeBrew project - Unlocking the potential of microalgae for the valorisation of brewery waste products into omega-3 rich animal feed and fertilisers</b> <i>Carmen Gabriela Constantin, University of Agronomic Sciences and Veterinary Medicine (USAMV), Romania</i>
10:30-11:00	<b>Analytical methods for blue residues characterization</b> <i>Oana Crina Bujor, University of Agronomic Sciences and Veterinary Medicine (USAMV), Romania</i>
11:00-11:30	<b>Genetic variation in sugar kelp and possibilities for selective breeding</b> <i>Marie Lillehammer, Nofima, Norway</i>
11:30-12:00	<b>Extraction blue materials to obtain biostimulants</b> <i>Thanos Salifoglou, Aristotle University of Thessaloniki (AUTH), Greece</i>
12:00-12:45	<b>Traditional, current and future use of fish and seaweed for fertilisation</b> <i>Anne-Kristin Løes, Norwegian Centre for Organic Agriculture (NORSØK), Norway</i>
12:45-13:00	Q&A

### Tuesday, 28.05.2024 (RO time)

8:30-9:00	Registration
9:00-9:30	<b>Fish in the Loop: Exploring RAS</b> <i>Julie Hansen Bergstedt, DTU Aqua, Denmark</i>
9:30-10:00	<b>End of pipe treatment: Unlocking the potential of RAS waste</b> <i>Carlos Octavio Letelier-Gordo, DTU Aqua, Denmark</i>
10:00-10:30	<b>Composting blue materials</b> <i>Joshua Cabell, Norwegian Centre for Organic Agriculture (NORSØK), Norway</i>
10:30 -11:00	<b>Optimizing the conditions of the fermentation process of rockweed-based compost</b> <i>Oana Cristina Pârvulescu, POLITEHNICA Bucharest, Romania</i>
11:00-11:30	<b>Biochar impregnation as slow release fertilizer</b> <i>Violeta Alexandra Ion, University of Agronomic Sciences and Veterinary Medicine (USAMV), Romania</i>
11:30-12:00	<b>Rapid pulse drying of marine biomasses</b> <i>Sigurd Sannan, SINTEF Energi AS, Norway</i>
12:00-12:30	<b>Application of blue compost teas on lettuce germination</b> <i>Andrei Moț, University of Agronomic Sciences and Veterinary Medicine (USAMV), Romania</i>
12:30-13:00	Q&A
14:00-18:00	MARIGREEN PROJECT meeting

### Wednesday, 29.05.2024 (RO time)

8:30-9:00	Registration
9:00-9:30	<b>Effects of high applications of seaweed materials to perennial ley</b> <i>Anne-Kristin Løes, Norwegian Centre for Organic Agriculture (NORSØK), Norway</i>
9:30-10:00	<b>The use of fish based fertilizers in strawberry growth technologies</b> <i>Ailin Moloșag, University of Agronomic Sciences and Veterinary Medicine (USAMV), Romania</i>
10:00-10:30	<b>Moving beyond agriculture and aquaculture to integrated sustainable food systems as part of a circular bioeconomy</b> <i>Ingrid Olesen, Nofima, Norway</i>
10:30-11:00	<b>Nutrient influence on plant physiology</b> <i>Liliana Bădulescu, University of Agronomic Sciences and Veterinary Medicine (USAMV), Romania</i>
11:00-11:30	<b>Fish sludge- the regulations for use as feed and fertilizer</b> <i>Ann-Cecilie Hansen, Norwegian Food Safety Authority (Mattilsynet), Norway</i>
11:30-12:00	<b>Cost benefits analysis in using marine residues for fertilizer</b> <i>Sigbjørn Tveteras, Norwegian Research Centre (NORCE), Norway</i>
12:00-12:30	<b>Markets for using marine residues for fertilizer</b> <i>Max Nielsen/ Fritz Julius Asmus Theden-Schow, University of Copenhagen (UCPH), Denmark</i>
12:30-13:00	Q&A

### Thursday, 30.05.2024 (RO time)

8:30-9:00	Registration
9:00-10:30	Lab practical approach- strawberry field work- setting up experiments
10:45-11:00	<i>Break</i>
11:00-13:00	Lab practical approach- strawberry field work- setting up experiments

### Friday, 31.05.2024 (RO time)

8:30-9:00	Registration
9:00-10:30	Lab practical approach- plant and fruit quality evaluation correlated with nutrient application
10:45-11:00	<i>Break</i>
11:00-12:00	Lab practical approach- plant and fruit quality evaluation correlated with nutrient application
12:00-12:50	<i>Certificates</i>

\*the schedule can suffer small modification for titles and speakers