



## Second Workshop on Blue Bioeconomy Approach to Marine Biomass Waste: INNOVATIVE IDEAS, TECHNIQUES AND TRANSLATIONAL SCIENCES

**Organized by researchers from**  
Babeş-Bolyai University,  
Faculty of Physics



**Hosted by**  
University of Dubrovnik,  
Applied Marine Ecology  
Dept.



**Financed by the**  
project MARIFERT



### Main topics covered:

- The idea behind the MARIFERT project: Blue Bioeconomy and the potential of the aquatic waste
- Knowledge-based innovative approach on aquatic waste & recycling
- What can Raman spectroscopy with portable instruments do in this topic?
- Re-using waste for added value by-products
- Translational science: from lab bench to SME
- Regulatory aspects; collection, deposit, re-use
- Education for sustainability, shared knowledge for society!



### Programme 20. October, 2021 – Hybrid (physical + online)

**9:00–9:05 Opening:** doc. dr. sc. Tatjana Dobroslavić (Uni DU)

**9:05–9:30** dr. Fran Nekvapil (BBU): **The MARIFERT project – aims and achievements;**

#### **Keynote talks – interdisciplinary approach to marine resources:**

• **9:30–9:45** Prof. dr. Simona Pinzaru (BBU): ***From analytical nanobiosensing to Bioeconomy: cooperation and results BBU-UniDU***

• **9:45-10:00** Prof. dr. sc. Sanja Tomšić (Uni DU): ***Seaweeds potential***

• **10:00-10:15** Prof. dr. sc. Marijana Pećarević (Uni DU): ***Solutions for the utilisation of shell waste from aquaculture***

• **10:15-10:30** Sanja Grđan, PhD stud., Univ. of Split (*sci. advisors*, Prof. dr. Ana Bratoš Cetinić and Prof. Dr. Sam Dupont): ***Ocean acidification and challenges faced by shelled invertebrates***

**10:30 – 10:50 Coffee break**

#### **Thematic talks and discussion**

• **10:50-11:05** Ioana Marica & Ion Nesterovschi (BBU): ***Macro- and microplastics in aquatic and terrestrial environment: identification and characterization using Raman spectroscopy techniques***

• **11:05-11:20** Dr. Tudor Tămaş, Dr. Razvan Hirian (BBU): ***Milling and mineralogical characterization of marine biogenic waste***

• **11:20-11:35** Iolanda Ganea, PhD stud. (BBU, INCDTIM): ***Assessment of heavy metals and dissolved ions in marine biota for agricultural use***

• **11:35-11:50** Dr. Alexandra Ciorîţă (UBB, INCDTIM): ***Microbiological assesment of crab and alga waste for soil fertilizer applications***

• **11:50-12:05** Lovro Ogresta (Uni. Zagreb): ***FTIR control of powders from crustacean shells waste***

• **12:05-12:20** Geza Lazar, PhD stud, BBU: ***Novel drug carrier from biogenic calcite popwder from crustaceans***

• **12:20-12:35** dr. Fran Nekvapil: ***Monitoring the carotenoids extraction from crustacean shells using a portable Raman instrument***

• **12:35-12:45** Mario Prečanica: ***Bivalve hatchers*** of the Applied Marine Ecology Department

• **12:55–13:00 Workshop conclusions, outlook & closing.**

**When and where?**  
**20. October 2021**



Department for Applied Marine Ecology,  
University of Dubrovnik, Ćira Carića 4, 20000,  
Dubrovnik, Croatia

**Participation is FREE OF CHARGE**

**Online joining info:**  
**Webex platform Link:**

<https://frannekvapil.my.webex.com/frannekvapil.my/j.php?MTID=m88b84d526ac7adc11a2abd2a23e298ac>

**Meeting number: 2554 503 4284**

**Password: pqDB34Zq3de**

Contact: [fran.Nekvapil@ubbcluj.ro](mailto:fran.Nekvapil@ubbcluj.ro)