



WORKSHOP

Advancing Research and Innovation and Promoting **Cooperation in Circular Economy Solutions Using** Algal Biotechnology

February 10th – 11th, 2025

Iceland Liechtenstein Norway Norway grants grants

Innovation Norway

AGENDA

Bilateral Cooperation in the blue and green sector. Business Development and Innovation Croatia' Programme Croatia innovation Norway grants (HRV-NORWAY 1158)

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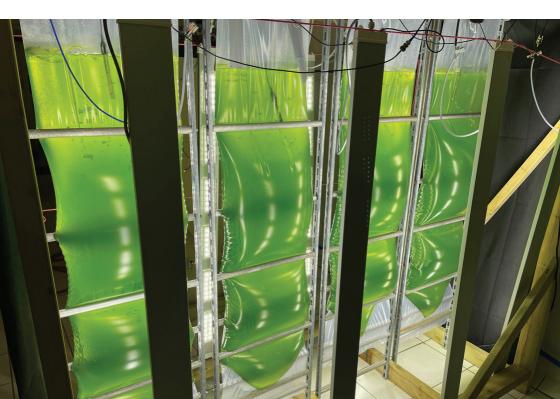


Workshop Organizers

- University of Zagreb Faculty of Chemical Engineering and Technology (UNIZG-FCET)
- Norwegian Institute of Water Research (NIVA)

Organizing Committee

- Assoc. Prof. Dajana Kučić Grgić, PhD, UNIZG-FCET | CWT
- Assoc. Prof. Vesna Ocelić Bulatović, PhD, UNIZG-FCET
- Assoc. Prof. Fabio Faraguna, PhD, UNIZG-FCET
- Asst. Prof. Matija Cvetnić, UNIZG-FCET | CWT
- Mr. sc. Marinko Markić, UNIZG-FCET | CWT
- Margarida Costa, PhD, NIVA
- Luka Šupraha, PhD, NIVA





NORWEGIAN INSTITUTE FOR WATER RESEARCH (NIVA)



The **Norwegian Institute for Water Research (NIVA)** is Norway's premier research institute in the fields of water and the environment. They are experts on ecosystems in both freshwater and marine environments, from mountains, via lakes and rivers, to fjords, coasts and oceans. They develop

science-based knowledge and solutions to challenges related to the interaction between water and climate, the environment, nature, people, resources and society. NIVA's laboratories and research infrastructure are an important part of their business. They have experts in chemical and biological analyses and environmental technology, and perform analyses and services for both NIVA's projects and for other institutes and the industry.

Web page: https://www.niva.no/en

FACULTY OF CHEMICAL ENGINEERING AND TECHNOLOGY (FCET)



The Faculty of Chemical Engineering and Technology (FCET) at the University of Zagreb is a distinguished higher education institution specializing in the fields of chemical engineering and chemistry. Its core activities encompass: organizing and delivering undergraduate, graduate, doctoral, and specialist university programs; conducting scientific

research integrated with the educational process through doctoral and specialist studies; implementing collaborative projects with industry partners; hosting seminars, symposia, and other scientific and professional events; publishing scientific and professional works, including books, monographs, textbooks, scripts, bulletins, and other resources; promoting scientific and professional achievements; collaborating with scientific, professional, educational, and other relevant organizations within its areas of expertise and related fields.

Web page: https://www.fkit.unizg.hr

COMPREHENSIVE WATER TECHNOLOGY LTD. (CWT)



Comprehensive Water Technology Ltd. is a spin-off company of the Faculty of Chemical Engineering and Technology and the University of Zagreb. Established in 2015, the company leverages 40 years of experience and expertise from the Faculty's staff, who have successfully addressed real-world challenges

in their field of work. The company's core activities are: conducting research into innovative and sustainable methods for the treatment and purification of drinking and wastewater using pilot-scale facilities; designing and developing conceptual and technologically sustainable water purification systems based on extensive research; advancing the development of new analytical methods, technological processes, and innovative measuring instruments; focusing on automation, technological development, and the production of specialized equipment for the process industry, scientific research, and innovation.

Web page: http://www.cwtech.hr



University of Zagreb Faculty of Chemical Engineering and Technology (UNIZG-FCET) Norwegian Institute of Water Research (NIVA)



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February 10th – 11th, 2025

WORKSHOP Agenda in Zagreb

Workshop Agenda in Zagreb

February 10^{th} to 11^{th} , 2025.

Place: Faculty of Chemical Engineering and Technology, Trg Marka Marulića 19, 10000 Zagreb, Croatia Council Hall



• Monday, February 10th, 2025

08:00 - 09:00	Registration
09:00 – 09:15	Welcome Speech Prof. Ante Jukić, PhD, Dean of Faculty of Chemical Engineering and Technology Prof. Tomislav Bolanča, PhD, Vice-rector for Business and Digitalization of University of Zagreb
09:15 – 10:00	JOÃO NAVALHO Necton S.A. and Allmicroalgae S.A. (Portugal) Day by Day Life in a Microalgae Production Company; From the Cell to Products Sales (keynote lecture)
10:00 - 10:30	Coffee Break
10:30 – 11:00	LUKA ŠUPRAHA, PhD Norwegian Institute of Water Research (NIVA) Norwegian Culture Collection of Algae (NORCCA): Applied Algal Research from Lab- to Pilot-Scale (keynote lecture)
11:00 – 11:45	MARGARIDA COSTA, PhD Norwegian Institute of Water Research (NIVA) Microalgal Biotechnology Research – Unraveling the Full Potential of an Algae Culture Collection (keynote lecture)
11:45 – 12:15	Prof. STELA JOKIĆ, PhD Josip Juraj Strossmayer University of Osijek Faculty of Food Technology Osijek, Croatia <i>Biologically Active Molecules from Adriatic Sea Macroalgae –</i> <i>Extraction, Characterization, and Potential Applications</i> (keynote lecture)
12:15 – 12:45	Assoc. Prof. FABIO FARAGUNA, PhD University of Zagreb Faculty of Chemical Engineering and Technology, Zagreb, Croatia The Role of Microalgae in Biofuel Production with a Focus on Biodiesel Production and Characterization (keynote lecture)

12:45 – 13:45 Lunch Break

- 13:45 15:45 **Group I workshop in CWT** Trg Marka Marulića 19, Zagreb, Croatia (leader: Asst. Prof. Matija Cvetnić, PhD) *Chemical Characterization of Water Used for Production of Microalgae* (workshop)
- 14:00 16:00 Group II workshop at Petroleum and Petrochemical Department Hrvatsko vojno učilište "Dr. Franjo Tuđman", Ilica 256b, Zagreb, Croatia (leader: Assoc. Prof. Fabio Faraguna, PhD) What do We Want from Our Biodiesel and How to Make It? (workshop)



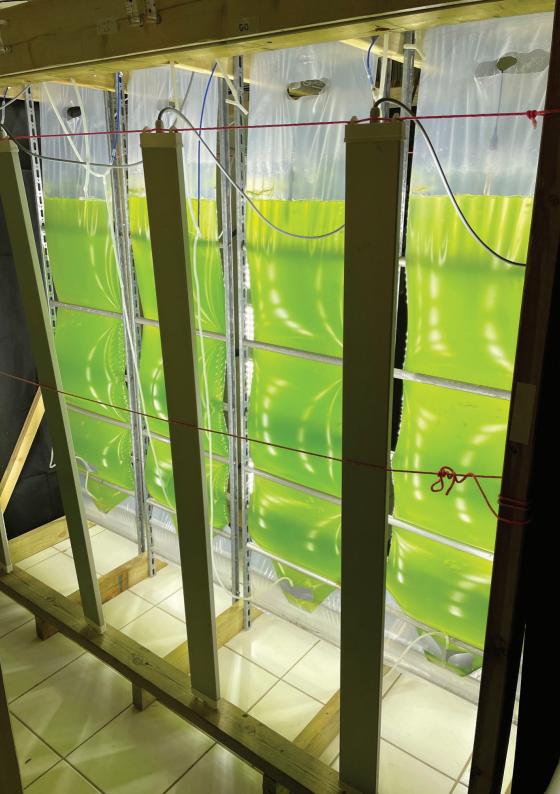
• Tuesday, February 11th, 2025



08:30 – 10:30	Group II – workshop in CWT Trg Marka Marulića 19, Zagreb, Croatia (leader: Asst. Prof. Matija Cvetnić, PhD) <i>Chemical Characterization of Water Used for Production of Microalgae</i> (workshop)
08:30 – 10:30	Group I – workshop at Petroleum and Petrochemical Department Hrvatsko vojno učilište "Dr. Franjo Tuđman", Ilica 256b, Zagreb, Croatia (leader: Assoc. Prof. Fabio Faraguna, PhD) <i>What do We Want from Our Biodiesel and How to Make It?</i> (workshop)
10:30 – 11:15	Coffee Break
11:15 – 11:45	Assoc. Prof. DAJANA KUČIĆ GRGIĆ, PhD University of Zagreb Faculty of Chemical Engineering and Technology, Zagreb, Croatia Microalgal Biomass and Agroindustrial Waste: Sustainable Feedstocks for Bacterial PHA Production (keynote lecture)
11:45 – 12:15	ROBERT REINHARDT, chief executive officer AlgEn, center za Algne tehnologije, d.o.o., Ljubljana, Slovenia <i>Algal Bioremediation in Circular Economy</i> (keynote lecture)
12:15 – 12:30	EGLI ILIĆ, senior advisor Innovation Norway, Zagreb, Croatia <i>Innovation Norway Grants</i> (oral presentation)
12:30-13:30	Lunch Break
13:30 – 14:00	SANJA BABIĆ BRČIĆ, PhD Ruđer Bošković Institute, Zagreb, Croatia Adriatic Sea Macroalgae: A New Horizon in Bioactive Compound Research (keynote lecture)
14:00 – 14:15	LUCIJA KONJEVIĆ, mag. ing. cheming. Director at Adriatic Biodizel d.o.o., Netretić, Croatia <i>Adriatic Biodiesel – The Only Second-generation Biodiesel Plant in Croatia</i> (oral presentation)

14:15 – 14:30	DUBRAVKO ŠKARE Madox d.o.o., Croatia Production of Freshwater Microalgae in Open-type Ponds and the Potential of Algae in Final Products (oral presentation)
14:30 – 14:45	Assoc. Prof. MARKO PETEK, PhD University of Zagreb Faculty of Agriculture, Croatia Enhancing Agricultural Resilience to Climate Change by Improving Crop Nutritional Status Using Biostimulants (oral presentation)
14:45 – 15:00	MARIA BLAŽINA, PhD Ruđer Bošković Institute, Zagreb, Croatia Assessment of the Adriatic Algae Cogeneration Potential in Toxic Industrial Wastewater Phycoremediation (oral presentation)
15:00 – 15:15	IGOR STANKOVIĆ, PhD Josip Juraj Strossmayer Water Institute, Zagreb, Croatia <i>Monitoring of Algae</i> (oral presentation)
15:15 – 15:45	Discussion on the Topic: Algal Biomass Utilization Toward Circular Economy. Connecting the Scientific Community and the Private Sector
15:45	Closing Ceremony







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Bilateral Cooperation in the blue and green sector, "Business Development and Innovation Croatia" Programme Croatia innovation Norway grants (HRV-NORWAY 1158)