



Avviso di Seminario

Organizzato nell'ambito del corso "Controllo Avanzato, Ottimizzazione e Analisi di Processi"

Laurea Magistrale in Ingegneria Informatica e dell'Automazione

La partecipazione è aperta a tutte le studentesse e a tutti gli studenti interessati.

Mercoledì 13 maggio 2026, ore 13:30 – 16:30, AULA 160/2

ADVANCED BIOMETHANE PRODUCTION FROM MICROALGAE

Prof. Serhiy Huhlych

**Associate Professor, Ph. D. at Lviv Polytechnic National
University – Lviv, Ukraine**

Link to the Seminar: <https://shorturl.at/hYGvd>

Abstract

The seminar focuses on advanced biomethane production from microalgae, detailing on how digestate and carbon dioxide from biogas plants can be reused in Ukraine. The presentation is based on an analytical note about using microalgae harvested on digestate from biogas plants. Microalgae can help transform biogas plant by-products into valuable resources. Digestate can provide nutrients, carbon dioxide can support algal growth, and microalgae biomass can be converted into additional biomethane. This system supports waste reduction, carbon reuse, and circular energy production. Ukraine has strong potential because of its agriculture and developing biogas sector. However, large-scale success depends on pilot projects, investment, and policy support. This important topic connects renewable energy, waste management, carbon reuse, and Ukraine's future energy potential.

Bio

Serhiy Huhlych is a candidate of technical sciences, associate professor, and deputy director for scientific and pedagogical work of the V. Chornovil Institute of Sustainable Development. He is author of scientific works in the technical sciences on environmental safety, sustainable development, and environmental protection technologies.

