



FRIDAY,

JUN 23, 2023

1:00PM (EDT)

ROOM 303,  
INTERNATIONAL  
CENTER  
427 N SHAW LN,  
EAST LANSING, MI  
48824



**Sponsored by:**  
**MSU Center for**  
**European, Russian,**  
**and Eurasian Studies**

CERES Brown Bag Talk

**Environmental consequences  
of the Russian War in Ukraine:  
Perspectives and challenges for Europe**

Lt. Col. Pavlo Khazan, Ph.D.

Chief, TDF Unmanned Systems Department,  
Armed Forces of Ukraine

The seminar will summarize and analyze the damage caused by the Russian occupiers to the environment during Russia's war in Ukraine from the start of the full scale invasion (February 2022) until November 2022. The seminar will give an assessment of how affected are the energy industry and the heavy industry (e.g. ferrous metallurgy), which are the sectors of the economy that, when disrupted, pose most significant environmental risks, not only for Ukraine but also for the entire continent. The analysis will apply to the territories that have been subject to most damage — Zaporizhzhia, Dnipropetrovsk, and Kharkiv regions. The data underpinning this work, including witness testimonies, was collected on the territories of these three regions of Ukraine.

**Bio:** Dr. Khazan served as a C4 & Cyber officer and a C4ISR group commander in the Signal & Cyber Security Corps, Joint Forces Operation and Territorial Defense Forces in the Ukrainian Army. Physicist and electrical engineer by training with a Ph.D. in statistics, he is a veteran of the Russian war in Ukraine since 2014. In civilian life, Dr. Khazan is the Head for Science and Engineering at Ukraine's Environmental Monitoring Centre and a member of Dnipro's Regional Council. He is a developer of civil and military engineering systems, author of research papers on ecology, renewable energy, economics and statistics.

