

Humboldt Kolleg

Hilton Garden Inn Hotel, Doamnei St. 12, Bucharest

18-22 November 2020

Global Challenges of the 21st Century

- 1) Technological development and human health/ quality of life*
- 2) Climate change and environmental sustainability*
- 3) Democracy and cohesion in Europe*

Anthropogenic Impact on Ecosystem Services within the Climate Change Context

Ecosystems are the foundation of life on Earth. They are in fact the life supporting units that provide essential Ecosystem services for the survival and well-being of humankind. Despite this, human society is placing increasing pressure on ecosystems, altering their capacity to provide Ecosystem Services and, in the end, altering their life supporting capacity itself. This paper focuses on human induced changes, from land cover and ecosystem structure changes to large-scale and long-term biogeochemical changes under the impact of Ecosystem services in the Danube floodplain. The paper will be presented by Dr. Mihai Adamescu, from the University of Bucharest, but summarises research done by Dr. Adamescu together with Dr. Constantin Cazacu and Dr. Georgia Arhire, both from the University of Bucharest as well.

Mihai Adamescu is a senior scientist holding a PhD in Systems Ecology that concentrated on freshwater phytoplankton communities. His postdoctoral research focused on the analysis of long-term ecological data. Among his professional interests, one can count: the ecology of large rivers, sensors networks and high frequency monitoring for complex systems, eutrophication and its impact, development of integrated management plans and biodiversity conservation options. Dr. Adamescu is the director of the Research Center in Systems Ecology and Sustainability at the University of Bucharest and the coordinator of the Braila Research Station.