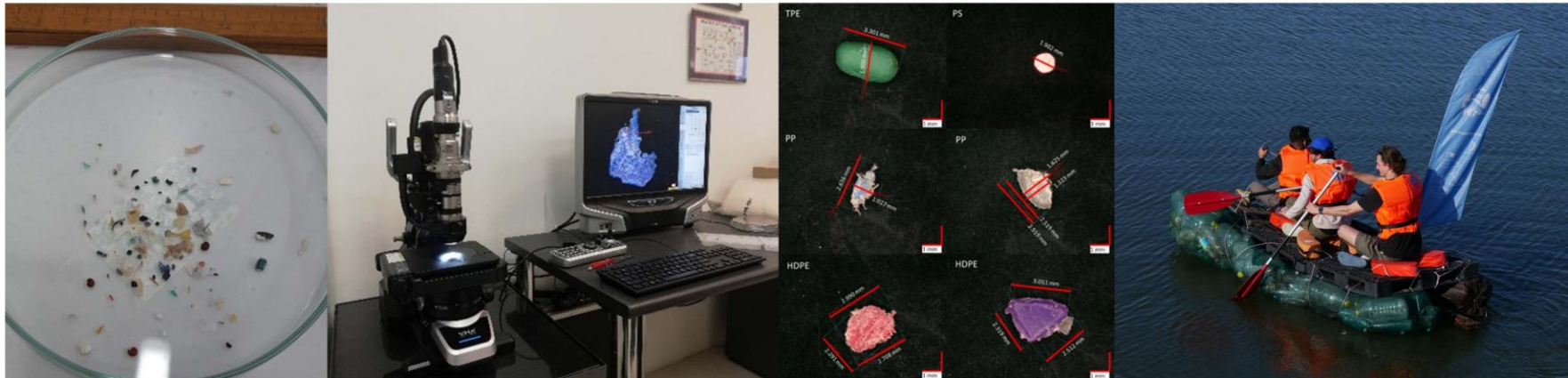


M⁴ Plastics

Measuring, Monitoring, Modelling, Managing
of plastics in flowing waters



October 29-31, 2025 // BME // Plastic cup // Budapest



BUDAPEST UNIVERSITY
OF TECHNOLOGY AND ECONOMICS

BME



Organised by:

Institute of Geophysics
Polish Academy of Sciences



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FIRENZE

Dipartimento di
Ingegneria Civile
e Ambientale



Interreg Programme
Danube Region



iNNOvative SEDiment
management in the
Danube River Basin



Co-funded by
the European Union



Who we are



Arianna Varrani,
Research Associate



Sándor Baranya
Associate professor



Miklós Gyalai-Korpos,
Independent Scientist



Attila Dávid Molnár
Independent Scientist



Katalin Bocz
Research fellow



Mirco Mancini
Research Fellow



Flóra Pomázi
Research fellow



Dániel Gere
Assistant professor



Gergely Tikász
PhD student



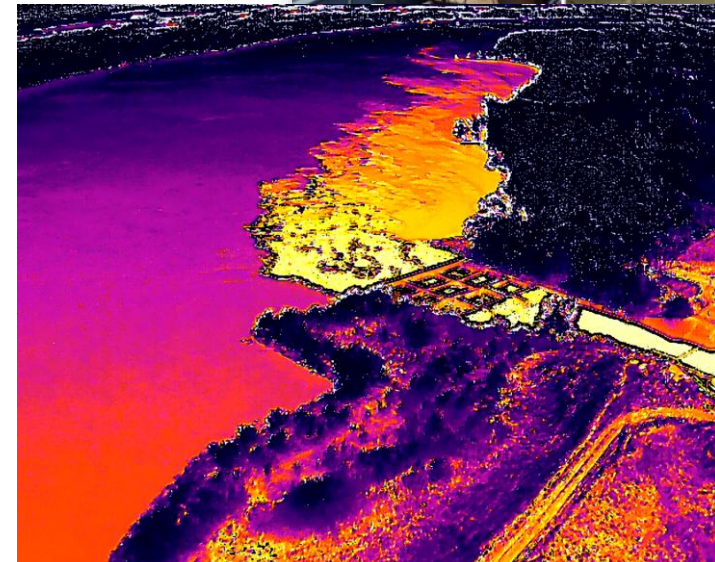
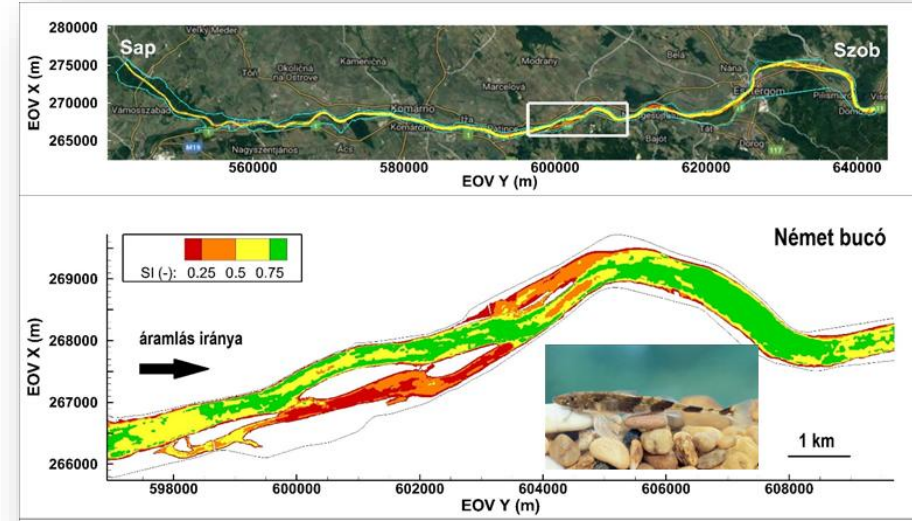
Gábor Fleit
Research fellow

BME

Budapest University of Technology and Economics

Key research areas:

- River morphology and ecohydraulics
- Catchment hydrology
- Lake hydrodynamics
- Hydrogeology

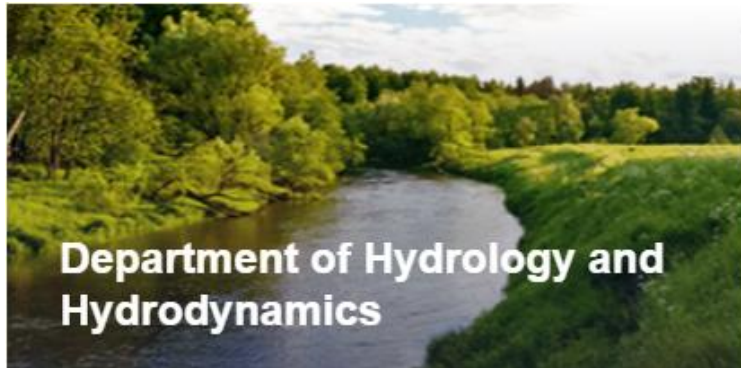


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Key research areas:

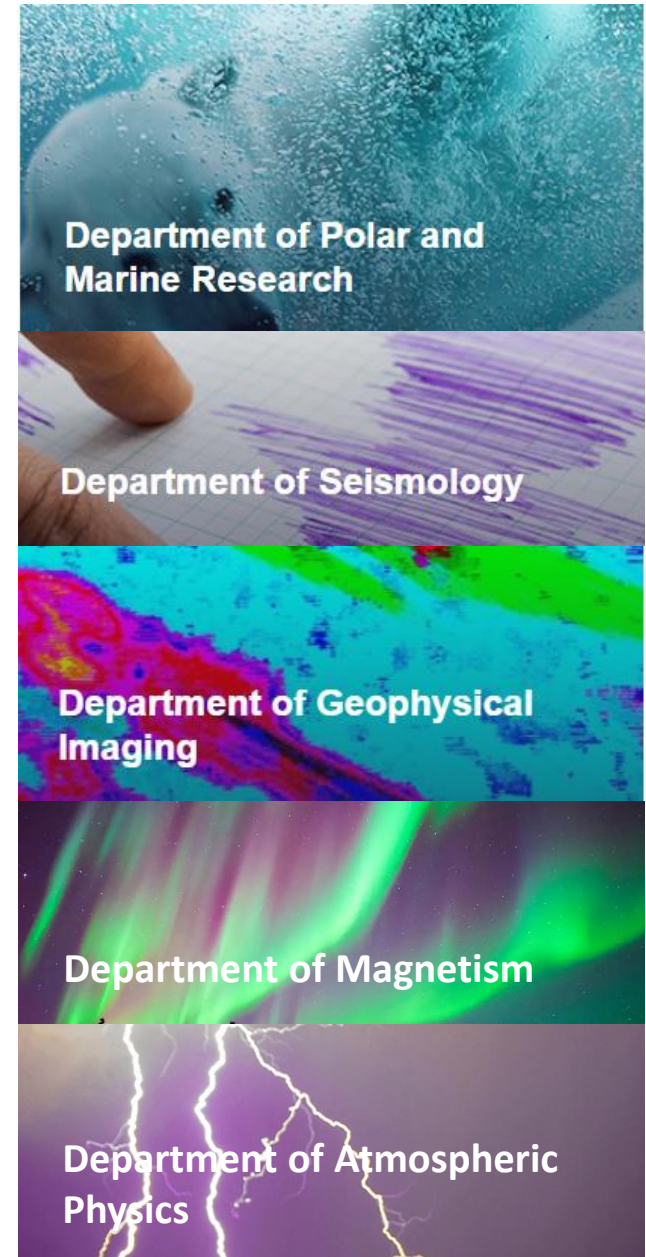
- River engineering
- Heat and mass transport
- Hydro-morphodynamics
- Flood/drought hazard
- Polar hydrology
- Experimental fluid mechanics

(bio-geophysics)

avarrani@igf.edu.pl

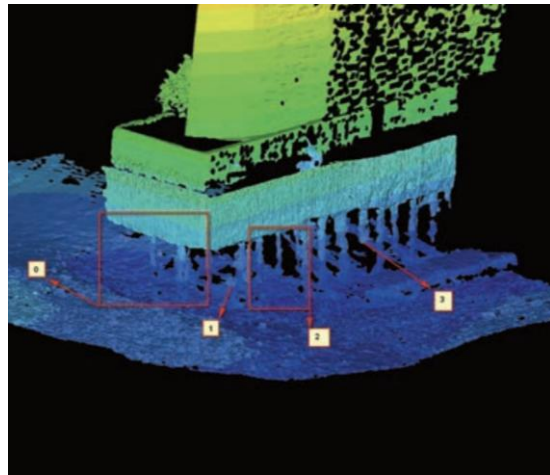


Institute of Geophysics
Polish Academy of Sciences



UNIFI

Department of Civil and Environmental Engineering
Laboratory of fluvial hydraulics



Key research areas:

- Fluvial engineering
- Hydro-morphodynamics
- Hydraulic risk
- Water quality engineering
- Experimental fluid mechanics
- Bio-fluid-dynamic



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Plastic Cup

- Plastic Cup – first race in 2013
- 400 tonnes of waste collected, 300 tonnes recycled, 1200 tonnes diverted from the river
- Principles are unchanged: waste is value, cleanups are fun!
- Complex toolkit, international cleanup protocol, registered trademark.
- One of the most influential and effective river cleanup initiatives in the Danube River Basin with open access principle and transferable protocols.



Science of riversaving

Due to the volume of the challenge:

- Knowledge sharing: training of Riversavers and replicable protocols
- Innovative and HR saving technologies by academic and industry cooperations

Solutions to pollution – the riversaver platform and map at www.riversaver.eu!



riversaver

