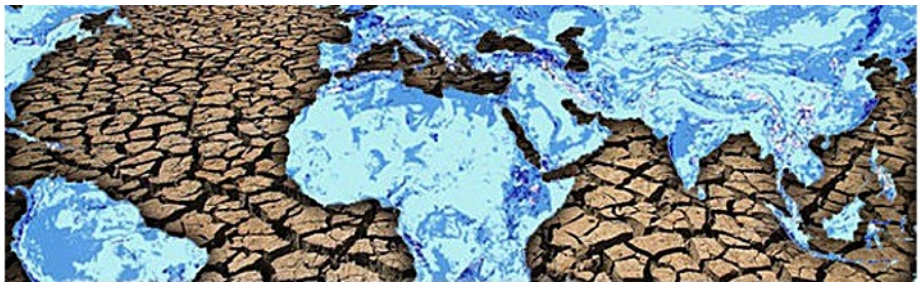
Commission for Water Sustainability



MEMBER PROFILE

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Study areas

Countries / Regions	Romania / Cluj-Napoca, Babeș-Bolyai University

Topics of last three projects

1	Development of management plans of ROSCI0028 Cheile Cernei, ROSCI0054 Cetatea Deva Hill, ROSCI0136 Bejan Forest and ROSCI0254 Calcareous tufs from Bobâlna Valley Natura 2000 sites
2	Integrated study regarding the contribution of ecosystems from Pricop-Huta Certeze and Upper Tisa Natura 2000 protected areas, to the sustainable development of local communities
3	TICAD - Tisa Catchment Area Development, South East Europe Programme

	Topics of last 10 publications	Publication links
1	Sabău D., Şerban G. , Kocsis I., Stroi P., Stroi R. (2018), Winter Phenomena (Ice Jam) on Rivers from the Romanian Upper Tisa Watershed in 2006–2017 Winter Season. In: Water Management and the Environment: Case Studies (WINEC 2017), Zelenakova M. (eds). Water Science and Technology Library, vol 86. Springer, Cham, pp 125-174, https://doi.org/10.1007/978-3-319-79014-5_7, ISBN 978-3-319-79013-8.	https://link.springer.com/chapter/10.1007/978-3-319-79014-5_7
2	Sabău, D., Şerban, Gh. (2018) Arch dam failure preliminary analysis using HEC-RAS and HEC-GEO RAS modeling. Case study Someșul Rece 1 reservoir. Forum geografic. Studii și cercetări de geografie și protecția mediului, Volume XVII, Issue 1 (June2018), pp. 44-55 (12) http://dx.doi.org/10.5775/fg.2018.058.	http://forumgeografic.ro/2018/2395/
3	Alexe, M., Şerban, Gh. , Baricz, Andreea, Andrei, A.-Șt., Cristea, A., P. Battes, Karina, Cîmpean, Mirela, Momeu, Laura, Muntean, V., Porav, S.A., Banciu, H.L. (2018), Limnology and plankton diversity of salt lakes from Transylvanian Basin (Romania): A review. Journal of Limnology, Vol 77, No 1, DOI: https://doi.org/10.4081/jlimnol.2017.1657, 18 p. + 7 p. Supplementary Material.	https://www.jlimnol.it/index.php/jlimnol/article/view/jlimnol.2017.1657
4	Şerban, Gh. , Rus, I., Niţoaia, A., & Vele, D. (2017). Preliminary results in assessing flood-prone areas using UAS System within the Ozana River Upper Basin (the Eastern Carpathians). Forum Geografic, XVI (2), 102-112. doi:10.5775/fg.2017.111.d.	http://forumgeografic.ro/2018/2357/
5	Şerban, Gh. , Rus, I., Vele, D., Breţcan, P., Alexe, M., Petrea, D. (2016), Flood-prone area delimitation using UAV technology, in the areas hard-to-reach for classic aircrafts: case study in the north-east of Apuseni Mountains, Transylvania. Natural Hazards, Springer Science+Business Media Dordrecht, Volume 82, Issue 3, DOI 10.1007/s11069-016-2266-4, pp. 1817-1832.	https://link.springer.com/article/10.1007/s11069-016-2266-4
6	Şerban, Gh. , Sabău, A., Rafan, S., Corpade, C., Niţoaia, A., Ponciş R. (2016), Risks Induced by Maximum Flow with 1% Probability and Their Effect on Several Species and Habitats in Pricop-Huta-Certeze and Upper Tisa Natura 2000 Protected Areas. „Air and Water – Components of the environment" Conference Proceedings, Editors: Gh. Şerban, R. Bătinaş, Adina Croitoru, I. Holobâcă, Cs. Horvath, T. Tudose, 22-23 March, Babeş-Bolyai University, Faculty of Geography, Cluj-Napoca, România, Edit. Casa Cărţii de Ştiinţă, pp. 58-69, ISSN: 2067-743X.	http://aerapa.conference.ubbcluj.ro/2016/08_Serban.htm
7	Sima, A. , Şerban, Gh. (2015), The Historical Flood of July 2008 From Vaser River Basin, Romania. Causes, Effects and Flood Control Actions. Present Environment and Sustainable Development. Volume 9, Issue 2, DE GRUYTER OPEN, Warsaw, Poland, pp. 229–242, ISSN (Online) 2284-7820, DOI: 10.1515/pesd-2015-0039.	https://content.sciendo.com/view/journals/pesd/9/2/article-p229.xml
8	Alexe, M. , Şerban, Gh. (2014), The evolution of heliotherm phenomenon in the karstosaline Lake Ursu from Sovata, Romania. Carpathian Journal of Earth and Environmental Sciences, February 2014, Vol. 9, No. 2, North University of Baia Mare, p. 103 - 111.	http://www.ubm.ro/sites/CJEES/viewIssue.php?issueId=25
9	* * * (2012), Tisa Catchment Area Development – Development Strategy of the Someş Catchment Area/Strategia de dezvoltare a Bazinului Hidrografic Someş/A Szamos Vizgyujto Teruletenek Fejlesztesi Strategiaja, Coordinators Pompei COCEAN & Gonz Annamaria. Risoprint Publishing House, Cluj-Napoca, 274 p., ISBN 978-973-53-0736-3.	http://www.risoprint.ro/detaliicarte.php?id=1516
10	Şerban, Gh., Touchart, L. (2008) Un nouveau parc naturel autour d'un vieux lac artificiel: les enjeux d'une Roumanie en transition dans les Monts Apuseni. Géocarrefour, „Les Parcs nationaux entre protection durable et développement local ", Volume 82, No 4, l'Association des Amis de la Revue de Géographie de Lyon, Université Jean Moulin - Lyon 3, pp. 243 - 253, Lyon, France, ISSN 0035-113X (1627-4873).	https://journals.openedition.org/geocarrefour/3532

Research interests in water

Climate & Water	Water in arid areas	Arctic water	Water cycle	Atmospheric water	Glaciers & Cryosphere					
Hydrological extreme events	Floods	Droughts	Ice phenomena							
Water flow	Catchment processes	Run-off generation	Groundwater-Surface water interactions	Hyporheic processes	Interstitial water	Porewater	Alluvial water			
Surface water	Limnology	Fluvial dynamics	Continental scale processes	Dams / Reservoirs	Sediments	Rivers	Floodplains			
Ground water	Soil water	Karst water	Hydrogeology	Recharge						
Marine Environment	Coastal waters	Estuarian waters								
Aquatic habitats/ Ecosystems	Wetlands	Lakes	Peatlands	Rivers						
Water availability	Water utility	Water storage	Dams / Reservoirs	Water scarcity	Supply & Distribution	Water allocation	Water restrictions			
Modelling and GIS	Hydro GIS	Groundwater modelling	Surface water modelling	Remote sensing						
Water quality	Pollution	Purification	Hydrochemistry	Treatment	Desalination	Waste water	Sewage			
Water & Health	Water & Sanitation	Water & Food	Waterborne diseases	Drinking water	Water purification					
Water & Energy	Water-Energy nexus	Water for energy	Energy for water	Water, Food & Energy						
Water management/ policy	Integrated Catchment management	Integrated water resource management	Water loss	Reticulation & Supply	Transboundary water					
Water use	Urban	Agricultural	Mine water	Industrial	Grey water	Green water	Blue water	Return water	Water sustainability	Competing water use
Water Law & Economics	Water trade	Virtual water	Privatisation	Water as public good	Right to water	Bills & Laws	Affordability			
Socio-political aspects	Water history	Water wars	Water & Poverty	Access to water						