

Petre BRETCAN Associate professor



Contact: Valahia University of Târgoviste, Faculty of Humanities, Str. Lt. Stancu Ion, Nr. 34-36, Târgoviste, jud. Dambovita, postal code 130105, Romania; tel. (004) 0245206105, e-mail: petrebretcan@yahoo.com.

Research fields: Hidrology, Limnology, Water resources management, Wetlands

Language skills: Romania (mother tongue), English (good).

Current positions:

- 2016-present Director, Departament of Geography
- Founder and Scientific secretary of the Romanian Limnogeographical Association
- Editor in chief – Annals of Valahia University of Targoviste. Geographical series
- 2012-present asociat professor University of Bucharest, Faculty of Geography

Education and degrees:

- 2007 – PhD in Geography, Romanian Institute of Geography, Bucharest. The Razim-Sinoie lacustrine complex. A limnology study
- 1998-1999 Master Degree in Geography, University of Bucharest (“Water resources management and sustainable exploitation”)
- 1994-1998: BA in Geography from Valahia University of Târgoviste, Faculty of Humanities
- Teaching experience – courses taught: Valahia University of Târgoviste: Hydrology and oceanography, Fitting river basins and defend against flooding, Limnology

Grants:

- 2017-2018 - Complex investigation (Neutron Activation Analysis, Fourier Transform Infrared and Raman Spectroscopy, Inductively Coupled Plasma – Mass Spectroscopy, Scanning Electron Microscopy +Multielemental Analysis, Optical Microscopy and Image Analysis) of the unconsolidated sediments of Romanian Plain salt lakes
- 2015- 2016 - Paleoenvironmental studies in Romanian Plain using nuclear and related analytical techniques, protocol no 4521-4-2015/2016 in the topic no. 03-4-1104-2011/2016
- Hydrological hazards on the river Ialomita in sub-Carpathian area, financed by Valahia University of Targoviste, 2006
- Geographical study of water resources in Romania the concept of sustainable development, financed by CNCSIS (The Romanian National Research Council) in 1999-2001

Selected Books:

- Gâstescu P., **Bretcan P.** (edit.) (2018), [4th International Conference Water resources and wetlands. CONFERENCE PROCEEDINGS 5-9 September, 2018 Tulcea \(Romania\)](#), 312p.
- Gâstescu P., **Bretcan P.** (edit.) (2016), [3rd International Conference Water resources and wetlands. CONFERENCE PROCEEDINGS 8-10 September, 2016 Tulcea \(Romania\)](#), 308p
- Gâstescu P., Marszelewski W., **Bretcan P.** (edit.) (2014), [2nd International Conference Water resources and wetlands. CONFERENCE PROCEEDINGS 11-13 September, 2014 Tulcea \(Romania\)](#), 581p.
- Gâstescu, P., Lewis, W., **Bretcan, P.** (edit) (2012) [Water resources and wetlands, Edit Transversal, Conference Proceedings, 14-16 Septembrie 2012 Tulcea](#), 662p.

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- Gastescu, P., **Bretcan, P.** (2010), [Resursele de apă din România. Vulnerabilitate la presiunea activităților antropice](#), Edit. Transversal, 479 p.
- Gastescu, P., **Bretcan, P.** (2009), *Hidrologie și Oceanografie [Hydrology and oceanography]*, Edit Transversal, 384 p.
- **Bretcan, P.** (2007), *Complexul lacustru Razim-Sinoie. Studiu de limnologie [The Razim-Sinoie lacustrine complex. A limnology study]*. Edit. Transversal, 310 p.
- Gastescu, P. Murarescu, Dinu, I. M. **Bretcan, P.** (2006), *Hidrologie generală. Lucrări practice [Hydrology Overview - practical work]*, Edit Transversal, 144 p.

Selected Articles:

- Diaconu DC., Bretcan, P., Peptenatu, D., Tanislav, D., Mailat, E. (2019) The importance of the number of points, transect location and interpolation techniques in the analysis of bathymetric measurements, *Journal of Hydrology* 570: 774-785 <https://doi.org/10.1016/j.jhydrol.2018.12.070>
- Dunea, D., Tanislav, D., Stoica, A., Bretcan, P., Muratoreanu, G., Frasin, L. N., ... & Iliescu, N. (2018). [ECO-PRACT: a project for developing the research competences of students regarding the monitoring of floristic composition in mountain grasslands.](#) *Journal of Science and Arts*, 18(1), 225-238.
- Chelarescu E.D, Radulescu C, Stih C, **Bretcan P**, Tanislav D, Dulama ID, Stirbescu RM, Teodorescu S, Bucurica IA, Andreia R, Morarescu A. (2017) Analysis of elements in lake sediment samples by PIXE spectrometry. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* <http://dx.doi.org/10.1016/j.nimb.2017.02.005>
- Radulescu C., Pohoata A., **Bretcan P.**, Tanislav D., Stih C., Chelarescu E. (2017), [Quantification of major ions in groundwaters using analytical techniques and statistical approaches](#) (accepted article - in press) *Romanian Reports in Physics* 69(2)
- Radulescu C., **Bretcan P.**, Pohoata A., Tanislav D., Stirbescu R.M. (2016) [Assessment of drinking water quality using statistical analysis: A case study](#) *Romanian J. Phys* 61 (9-10): 1604-1616
- Șerban G., Rus I., Vele D., **Brețcan 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* 82 (3): 1817-1832
- Gâștescu P, **Brețcan P.**, Teodorescu D.C., (2016), [The lakes of the Romanian Black Sea coast. Man-induced changes, water regime, present state.](#) *Romanian Journal of Geography*, 60 (1): 27-42
- Radulescu C., Stih C., Dulama ID, Chelarescu ED, **Bretcan P**, Tanislav D. (2015), [Assessment of heavy metals content in water and mud of several salt lakes from romania by atomic absorption spectrometry.](#) *Romanian J. Phys* 60 (1-2):246-256
- **Bretcan P.**, Tuchiu E., Bretcan S. (2012), [Importance of water circulation in lakes Razim-Golovita. Status and quality of ecosystems](#), in Gastescu, P., Lewis, W., **Bretcan, P.** (edit) (2012) *Water resources and wetlands, Conference Proceedings*, 14-16 September 2012, Tulcea, Romania. p.100-105
- **Bretcan P**, Mihaela Florina Tampu (2008), The Razim-Sinoie lacuster complex. Protection, resources, valorization, *Lakes reservoirs and ponds*, vol. 1-2, p. 99-112 ISSN: 1844-6477.
- **Bretcan P.**, Murarescu O., Samoila E., Popescu O (2008) The modification of the ecological conditions in the Razim-Sinoie lacuster complex as an effect of the anthropic intervention, *XXIVth Conference of the Danubian Countries, 2-4 June 2008, Bled, Slovenia*, ISBN: 978-961-91090-2-1.
- **Brețcan P**, Murarescu O, Samoila E, Popescu O, (2009), Water Management in the Razim-Sinoie Lacustrine Complex, în vol. *International Symposium on Water Management and Hydraulic Engineering Ohrid/Macedonia*, p. 791-802