

Curriculum Vitae

Name: Dr. Begy Robert-Csaba



Affiliation: Interdisciplinary Research Institute on BIO-NANO-SCIENCES, Babeş-Bolyai University, Treboniu Laurean 42, 400271, Cluj-Napoca, Romania. Tel: +40 264 405375; Fax: +40 264 591906.

Faculty of Environmental Science and Engineering, Babeş-Bolyai University, Fantanele, No. 30, Cluj Napoca 400294, Romania. Tel. +40-264-307030; Fax. +40-264-591906.

E-mail: **robert.begy@ubbcluj.ro**

Personal data: Born in Sighetu Marmatiei (Maramureş, Romania) on June 10, 1980.

Studies: 2009: Doctor of Science, Babeş-Bolyai University (UBB), Cluj-Napoca, Romania; 2005: Master degree, Babeş-Bolyai University, Cluj-Napoca, Romania; 2004: Physics degree, Babeş-Bolyai University, Cluj-Napoca, Romania.

Academic Appointment:

2017-curent: Senior Researcher I. at Interdisciplinary Research Institute on BIO-NANO-SCIENCES, Babeş-Bolyai University, Romania

2009-curent: Lecturer, Babeş-Bolyai University, Cluj-Napoca, Romania.

Teaching activities and student supervision: Environmental radioactivity and Radioecology undergraduate course, invited professor at “Pannon” University from Veszprem Hungary, between 2009 and 2016, **27** master’s and bachelor’s dissertations coordinated.

Member of: Hungarian Chemical Society.

Personal skills and competences: Mother tongue(s): Hungarian, Romanian; Other language(s): English

Computer skills and competences: Microsoft Office, Delphi 7. *Statistical analysis:* GraphPad Prism, SPSS, Origin. *Technical skills and competences:* Alpha spectrometry and

sample/source preparation, Gamma spectrometry, Radon, Thoron and its Progeny measurements

ISI articles: Total: **39** out of which **16** are published as main author (first or corresponding)

ISI citations: **254** (self citation excluded, according to Web of Science), H index=**8**

Commission of trust- reviewer for: Geochronometria (**IF=1.243**), J. Environ. Radioact (**IF=2.047**), Appl. Radiat. Isot. (**IF=1.136**), Radioanal. Nucl. Chem. (**IF=0.983**), Sci. Total Environ. (**IF=3.976**), Estuarine, Coastal and Shelf Science (**IF=2.335**), Environ. Scie. and Pollut. Res. (**IF=2.76**), Quat. Geochronol. (**IF=3.142**)

Oral presentations at international conferences: (2009-2018) **20**

Poster presentations at international conferences: (2009-2018) **19**

Funding ID:

1. Research projects:

PI in:

1. **2008** - special grant for PhD students in Romania –CNCS/UEFISCDI grant **TD-397**

(“*Environmental Studies by Using Pb-210 Radionuclide*” with a value of 5820 Euros)

http://uefiscdi.gov.ro/UserFiles/File/TD_2008/Rezultate_finale_proiecte_tip_TD_Competitie_2008.htm .

Research results quantified in papers:

- Begy, R.C., Timar-Gabor, A., Somlai, J., Cosma, C., **2011**. *A sedimentation study of St. Ana Lake (Romania) applying the ²¹⁰Pb and ¹³⁷Cs dating methods*. **Geochronometria** 38 (2), 93-100.
- R. Begy, C. Cosma, Z. Horvath, **2009**. Sediment accumulation rate in the “Red Lake” (ROMANIA) determined by Pb-210 and Cs-137 radioisotopes **Romanian Journal of Physics**. 54, 9-10.
- R. Begy, C. Cosma, A. Timar, **2009**. Recent changes in Red Lake (Romania) sedimentation rate determined from depth profiles of ²¹⁰Pb and ¹³⁷Cs radioisotopes **Journal of Environmental Radioactivity** 100, 8, 644-648.

2. **2012** - Human resources research project for young independent teams

CNFIS/UEFISCDI grant TE: **PNI-II-RU-TE-2012-3-0351** (“*Radionuclides as tracers of the anthropic influence on the Danube Delta sedimentary processes*” with a value of 150162 Euros)

http://uefiscdi.gov.ro/userfiles/file/PROIECTE%20TE%202012/BUGET%20CONTRACTAT/TE_2012_VALORI%20CONTRACTATE%202013.pdf

Research results quantified in papers:

- Begy, R.C., Kovacs, T., Veres, D., Simon, H., **2016**. *Atmospheric flux, transport and mass balance of ^{210}Pb and ^{137}Cs radiotracers in different regions of Romania*. **Applied Radiation and Isotopes** 111, 31-39.
- Begy, R.-C., Preoteasa, L., Timar-Gabor, A., Mihaiescu, R., Tanaselia, C., Kelemen, S., Simon, H., **2016**. *Sediment dynamics and heavy metal pollution history of the Cruhlig Lake (Danube Delta, Romania)*. **Journal of Environmental Radioactivity** 153, 167-175.
- Begy, R.C., Dumitru, O.A., Simon, H., Steopoaie, I., **2015**. *An improved procedure for the determination of ^{210}Po by alpha spectrometry in sediments samples from Danube Delta*. **Journal of Radioanalytical and Nuclear Chemistry** 303 (3), 2553-2557.
- Begy, R.-C., Simon, H., Kelemen, S., Reizer, E., Preoteasa, L., **2015**. *Determination of sedimentation rates of a northern Danube Delta lake by ^{210}Pb method*. **Carpathian Journal of Earth and Environmental Sciences** 10 (4), 191-194.
- Simon, H., Kelemen, S., Begy, R.-C. *Anthropic influences on the sedimentation rates of lakes situated in different geographic areas*. **J. Environ. Radioact.**, DOI: 10.1016/j.jenvrad.2016.09.001 (Begy, R.-C as corresponding author)

3. **2013**- grant for young scientist provided by Babes-Bolyai University GTC-UBB, **GTC-34072/2013** (“*The influence on dating by ^{210}Pb method and sedimentation processes of the dam lakes constructed on Oii and Rosu creek in Red Lake area*” with a value of 2000 Euros). <http://cercetare.ubbcluj.ro/wp-content/uploads/2013/10/Rezultate-FINALE-competitia-GTC-UBB.pdf>

Selected Articles:

1. **Begy, R.-C.**, Simon, H., Kelemen, S., Preoteasa, L. **2018** *Investigation of sedimentation rates and sediment dynamics in Danube Delta lake system (Romania) by ^{210}Pb dating method.* **Journal of Environmental Radioactivity** 192, pp. 95-104
2. **Begy, R.C.**, Kovacs, T., Veres, D., Simon, H., **2016**. *Atmospheric flux, transport and mass balance of ^{210}Pb and ^{137}Cs radiotracers in different regions of Romania.* **Appl. Radiat. Isot.** 111, 31-39.
3. **Begy, R.-C.**, Preoteasa, L., Timar-Gabor, A., Mihaiescu, R., Tanaselia, C., Kelemen, S., Simon, H., **2016**. *Sediment dynamics and heavy metal pollution history of the Cruhlig Lake (Danube Delta, Romania).* **J. Environ. Radioact** 153, 167-175.
4. **Begy, R.C.**, Dumitru, O.A., Simon, H., Steopoaie, I., **2015**. *An improved procedure for the determination of ^{210}Po by alpha spectrometry in sediments samples from Danube Delta.* **J. Radioanal. Nucl. Chem.** 303 (3), 2553-2557.
5. **Begy, R.-C.**, Simon, H., Kelemen, S., Reizer, E., Preoteasa, L., **2015**. *Determination of sedimentation rates of a northern Danube Delta lake by ^{210}Pb method.* **Carpath. J. Earth Environ. Sci.** 10 (4), 191-194.
6. **Begy, R.-C.**, Simon, H., Reizer, E., **2015**. *Efficiency testing of Red Lake protection dam on Rosu stream by ^{210}Pb method.* **J. Radioanal. Nucl. Chem.** 303 (3), 2539-2545.
7. **Begy, R.C.**, Timar-Gabor, A., Somlai, J., Cosma, C., **2011**. *A sedimentation study of St. Ana Lake (Romania) applying the ^{210}Pb and ^{137}Cs dating methods.* **Geochronometria** 38 (2), 93-100.
8. **R. Begy, C. Cosma, Z. Horvath, 2009**. *Sediment accumulation rate in the "Red Lake" (ROMANIA) determined by Pb-210 and Cs-137 radioisotopes* **Rom. J. Phys.** 54, 9-10.
9. **R. Begy, C. Cosma, A. Timar, 2009**. *Recent changes in Red Lake (Romania) sedimentation rate determined from depth profiles of ^{210}Pb and ^{137}Cs radioisotopes* **J. Environ. Radioact** 100, 8, 644-648.
10. Hutchinson, S.M., Akinyemi, F.O., Mindrescu, M., **Begy, R.**, Feurdean, A., **2016**. *Recent sediment accumulation rates in contrasting lakes in the Carpathians (Romania): impacts of shifts in socio-economic regime.* **Reg. Environ. Change**, 16 (2), 501-513.
11. Simon, H., Kelemen, S., **Begy, R.-C.** *Anthropic influences on the sedimentation rates of lakes situated in different geographic areas.* **J. Environ. Radioact.** DOI: 10.1016/j.jenvrad.2016.09.001