TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO **ID CODE 6573**

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Scienza della Terra Ardito Desio**

Scientist- in – charge: Prof. Sorichetta

Petra Baják

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Petra
Name	Baják

PRESENT OCCUPATION

Appointment	Structure
research assistant	Department of Geology, ELTE Eötvös Loránd University (Budapest, Hungary)

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Geology MSc (Hydrogeology, Petroleum and Environmental Geology)	ELTE Eötvös Loránd University	2019
PhD	Environmental Science (Environmental Earth Sciences)	ELTE Eötvös Loránd University	expected graduation date: 2024

REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
2020	Hungarian Hydrological Society	Budapest
2019	Hungarian Geological Society	Budapest

2019	International Association of Hydrogeologists	
2019	European Geosciences Union	
2018	Advancing the World of Petroleum Geosciences Student Chapter	

FOREIGN LANGUAGES

Languages	level of knowledge
English	B2

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2023	ÚNKP-23-4-I-ELTE-648 New National Excellence Programme (scholarship for 12 months)
2023	1st place at the 53rd Meeting of Young Geoscientists (for my oral presentation in the applied session)
2022	ÚNKP-22-3-II-ELTE-617 New National Excellence Programme (scholarship for 7 months)
2022	1st place at the 52nd Meeting of Young Geoscientists (for my oral presentation in the applied session)
2021	2nd place at the 51st Meeting of Young Geoscientists (for my oral presentation in the applied session)
2020	3rd place at the 17th National Higher Education Student Conference for Environmental Science (for my MSc thesis)
2019	3rd place at the Lászlóffy Waldemár Thesis Competition organised by the Hungarian Hydrological Society (for my MSc thesis)
2019	Special prize of the Mining Support Ltd. at the 50th Meeting of Young Geoscientists (for my oral presentation in the applied session)
2019	Audience award and the special prize of József and Erzsébet Tóth Endowed Hydrogeology Chair and Foundation for the presentation at the Scientific Students' Associations Conference (for my scientific student work)
2018	Award of József and Erzsébet Tóth Endowed Hydrogeology Chair and Foundation for the best popular sciences presentation

TRAINING OR RESEARCH ACTIVITY

description of activity: gravity-driven groundwater flow systems and related phenomena; natural radioactivity (uranium, radium, radon) in groundwater and drinking water; groundwater flow modelling using Visual MODFLOW; surface water-groundwater interaction

PROJECT ACTIVITY

Year	Project
2023-present	National Multidisciplinary Laboratory for Climate Change (RRF-2.3.1-21-2022-00014)

2018-2022	ENeRAG project (funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No 810980)
2018	ÚNKP-17-4-III-ELTE-73 New National Excellence Program

CONGRESSES AND SEMINARS

Date	Title	Place
20/09/2021 - 23/09/2021	Improving skills on conservative and reactive transport modelling (held by the Geological Survey of Finland and the University of Milan)	online
05/06/2021	Hydrochemical modelling with PHREEQC and its application of fluid-rock interaction (held by Vincent Post, BGR, Germany)	online
06/06/2021	Numerical simulation of groundwater flow and heat transport processes (John Molson, Université Laval, Canada)	online

PUBLICATIONS

Articles in reviews
Baják P.; Molnár B.; Hegedűs-Csondor K.; Tiljander M.; Jobbágy V.; Kohuth-Ötvös V.; Izsák B.; Vargha M.; Horváth Á.; Csipa E. et al. (2023) Natural Radioactivity in Drinking Water in the Surroundings of a Metamorphic Outcrop in Hungary: The Hydrogeological Answer to Practical Problems. Water 15(9), Paper: 1637, 20 p. https://doi.org/10.3390/w15091637. (IF: 3.53)
Tóth Á.; Baják P.; Szijártó M.; Tiljander M.; Korkka-Niemi K.; Hendriksson N.; Mádl-Szőnyi J. (2023) Multimethodological Revisit of the Surface Water and Groundwater Interaction in the Balaton Highland Region—Implications for the Overlooked Groundwater Component of Lake Balaton, Hungary. Water, 15(6), Paper: 1006. https://doi.org/10.3390/w15061006. (IF: 3.53)
Baják P.; Hegedűs-Csondor K.; Tiljander M.; Korkka-Niemi K.; Surbeck H.; Izsák B.; Vargha M.; Horváth Á.; Pándics T.; Erőss A. (2022) Integration of a Shallow Soda Lake into the Groundwater Flow System by Using Hydraulic Evaluation and Environmental Tracers. Water 14(6), Paper: 951, 20 p. https://doi.org/10.3390/w14060951. (IF: 3.53)
Baják P.; Csondor K.; Pedretti D.; Muniruzzaman M.; Surbeck H.; Izsák B.; Vargha M.; Horváth Á.; Pándics T.; Erőss A (2022) Refining the conceptual model for radionuclide mobility in groundwater in the vicinity of a Hungarian granitic complex using geochemical modelling. Applied Geochemistry 137, Paper: 105201, 12 p. https://doi.org/10.1016/j.apgeochem.2022.105201. (IF: 3.841)
Czauner B.; Erőss, A.; Szkolnikovics-Simon Sz.; Markó Á.; Baják P.; Trásy-Havril T.; Szijártó M.; Szabó Zs.; Hegedűs-Csondor K.; Mádl-Szőnyi J. (2022) From basin-scale groundwater flow to integrated geofluid research in the hydrogeology research group of Eötvös Loránd University, Hungary. Journal of Hydrology X, 17, Paper: 100142. https://doi.org/10.1016/j.hydroa.2022.100142. (IF: 4.05)
Pedretti D.; Vriens B.; Skierszkan E.K.; Baják P.; Mayer K.U.; Beckie R.D. (2022) Evaluating dual-domain models for upscaling multicomponent reactive transport in mine waste rock. Journal of Contaminant Hydrology, 244, Paper: 103931 , 11 p. https://doi.org/10.1016/j.jconhyd.2021.103931. (IF: 4.184)
Csondor K.; Baják P.; Surbeck H.; Izsák B.; Horváth Á.; Vargha M.; Pándics T.; Erőss A. (2021) Parti szűrésű vízbázisok természetes radioaktivitása nuklidspecifikus mérések tapasztalatai alapján. Hidrológiai Közlöny,

101(2), 44-53, 10 p. https://www.hidrologia.hu/mht/letoltes/HK2021_04.pdf. (IF: –)
Erőss A.; Horváth Á.; Hegedűs-Csondor K.; Baják P.; Kovácsné Bodor P.; Mádlné Szőnyi J. (2021) Radon a felszínalatti vizekben. Sugárvédelem, 14(2), 37-42, 6 p. https://epa.oszk.hu/04300/04398/00017/pdf/EPA04398_sugarvedelem_2021_2_37-42.pdf. (IF: –)
Medici G.; Baják P.; West L.J.; Chapman P.J.; Banwart S.A. (2021) DOC and nitrate fluxes from farmland; impact on a dolostone aquifer KCZ. Journal of Hydrology, 595, Paper: 125658. https://doi.org/10.1016/j.jhydrol.2020.125658. (IF: 6.708)
Csondor K.; Baják P.; Surbeck H.; Izsák B.; Horváth Á.; Vargha M.; Erőss A. (2020) Transient nature of riverbank filtered drinking water supply systems - A new challenge of natural radioactivity assessment. Journal of Environmental Radioactivity, 211, Paper: 106072. https://doi.org/10.1016/j.jenvrad.2019.106072. (IF: 2.674)

Congress proceedings
International conferences:
Baják, P., Pedretti, D., Csepregi, A., Muniruzzaman, M., Hegedűs-Csondor, K., and Erőss, A. (2024): Preliminary results of two-dimensional multicomponent reactive transport modelling to understand the controlling factors on uranium mobility in a siliciclastic aquifer in Hungary. Abstract. European Geosciences Union (EGU) General Assembly 2024, Vienna, Austria, 14–19 April 2024, no. EGU24-12663.
Baják, P.; Hegedűs-Csondor, K.; Csepregi, A.; Chappon, M.; Bene, K.; Erőss, A. (2023): Numerical modeling and time series analysis to quantify the neglected groundwater component in Lake Velence's water budget – a case study from Hungary. Abstract. European Geosciences Union (EGU) General Assembly 2023, Vienna, Austria, 23–28 April 2023. no. EGU23-12278.
Baják, P.; Molnár, B.; Hegedűs-Csondor, K.; Jobbágy, V.; Horváth, Á.; Kohuth-Ötvös, V.; Peczar, K.; Hult, M.; Erőss, A. (2022): Hydrogeological investigation of the natural radioactivity in the vicinity of Sopron Mountains. Abstract. VIII. Terrestrial Radioisotopes in Environment International Conference on Environmental Protection, Vonyarcvashegy, Hungary, 4-7 October 2023.
Baják, P.; Hegedűs-Csondor, K.; Tiljander, M.; Korkka-Niemi, K.; Izsák, B.; Vargha, M.; Pándics, T.; Tóth, Á.; Csepregi, A.; Erőss, A. (2022): Regional Groundwater Flow Studies To Integrate A Shallow Soda Lake Into the Gravity-Driven Groundwater Flow System – A Case Study From Hungary. Abstract. 49th IAH Online Congress, Wuhan, China, 19-23 September 2022, no. 140349.
Baják, P.; Hegedűs-Csondor, K.; Tiljander, M.; Korkka-Niemi, K.; Izsák, B.; Vargha, M.; Horváth, Á.; Pándics, T.; Erőss, A. (2022): Investigation of the contribution of groundwater to the water budget of a shallow soda lake in Hungary by using stable and radioactive isotopes as natural tracers Abstract. European Geosciences Union (EGU) General Assembly 2022, Vienna, Austria, 23–27 May 2022. no. EGU22-10323.
Baják, P.; Csondor, K.; Pedretti, D.; Muniruzzaman, M.; Kohuth-Ötvös, V.; Izsák, B.; Vargha, M.; Horváth, Á.; Pándics, T.; Erőss, A. (2021): Hydrogeological investigation of the radionuclide content in groundwater in the vicinities of two crystalline outcrops in Hungary. Abstract. 48th IAH Congress, Brussels, Belgium, 6-10 September 2021, no. 371.
Baják, P.; Csondor, K.; Pedretti, D.; Muniruzzaman, M.; Izsák, B.; Vargha, M.; Horváth, Á.; Pándics, T.; Erőss, A. (2021): Natural Uranium Contamination in Groundwater – Understanding the Mobilization and Transport Processes with the Help of Hydrogeology and Geochemical Modeling. Abstract. International Symposium on Geofluids Virtual Event, Hungary, 7-9 July 2021.
Baják, P.; Csondor, K.; Pedretti, D.; Muniruzzaman, M.; Izsák, B.; Vargha, M.; Horváth, Á.; Pándics, T.; Erőss, A. (2021): The controls of radionuclide mobility in a siliciclastic aquifer in Hungary: Hydrogeological investigations and geochemical modeling. Abstract. European Geosciences Union (EGU) Gather Online 2021, Austria, 19–30 May 2021. no. EGU21-8804.
Baják, P.; Csondor, K.; Surbeck, H.; Izsák, B.; Vargha, M.; Horváth, Á.; Pándics, T.; Erőss, A. (2020): Radionuclide content of drinking water in Hungary - How can hydrogeological approach help to understand? A case study in the vicinity of a granitic complex. Abstract. VII. Terrestrial Radioisotopes in Environment:

International Conference on Environmental Protection, Veszprém, Hungary, 10-13 August, 2020.
Baják, P.; Csondor, K.; Surbeck, H.; Izsák, B.; Vargha, M.; Horváth, Á.; Pándics, T.; Erőss, A. (2020): How can flow system approach help to understand the natural radionuclide content of the drinking water originated from groundwater sources? Case study in the vicinity of a granitic complex. Abstract. European Geosciences Union (EGU) Online General Assembly 2020, Austria, 4–8 May 2020. no. EGU2020-1181.
Baják, P.; Csondor, K.; Surbeck, H.; Izsák, B.; Horváth, Á.; Vargha, M.; Pándics, T.; Erőss, A. (2019): Radionuclide content of groundwater in hydrogeological approach. Case study in the adjacent area of a granitic complex. Abstract. 46th IAH Congress, Malaga, Spain, 22-27 September 2019. no. 655.
Baják, P.; Csondor, K.; Surbeck, H.; Izsák, B.; Vargha, M.; Horváth, Á.; Pándics, T.; Erőss, A. (2019): A new challenge in drinking water supply - Radionuclide content of groundwater in flow system context. Abstract. European Geosciences Union (EGU) Gather Online 2019, Vienna, Austria, 7–12 April 2019. no.EGU2019-17206.
National conferences:
Baják, P.; Hegedűs-Csondor, K.; Budai, S.; Csepregi, A.; Erőss, A. (2023): Preliminary results of numerical modelling and time series analysis to quantify the neglected groundwater component in Lake Velence's water budget. Abstract. 53. Meeting of Young Geoscientists – 53. Ifjú Szakemberek Ankétja, Nagybörzsöny, Hungary, 31 March-1 April 2023.
Baják, P.; Hegedűs-Csondor, K.; Csepregi, A.; Erőss, A. (2022): A Velencei-tó és a felszínalatti vizek kapcsolatának vizsgálata. Abstract. Felszín Alatti Vizekért Alapítvány XXVIII. Almássy Endre konferencia a felszín alatti vizekről, Siófok, Hungary, 14-15 September 2022.
Baják, P.; Hegedűs-Csondor, K.; Tiljander, M.; Korkka-Niemi, K.; Izsák, B.; Vargha, M.; Pándics, T.; Horváth, Á.; Erőss, A. (2022): Joint application of groundwater mapping and environmental tracers to reveal the interconnection between groundwater and Lake Velence. Abstract. 52. Meeting of Young Geoscientists - 52. Ifjú Szakemberek Ankétja, Orosháza, Hungary, 25-26 March 2022.
Baják, P.; Csondor, K.; Pedretti, D.; Muniruzzaman, M.; Izsák, B.; Vargha, M.; Horváth, Á.; Pándics, T.; Erőss, A. (2021): Regional-scale hydrogeological and local-scale geochemical investigation of natural radioactivity of groundwater-derived drinking water. Abstract. 51. Meeting of Young Geoscientists - 51. Ifjú Szakemberek Ankétja, Zalakaros, Hungary, 10-11 September 2021.
Baják, P.; Csondor, K.; Pedretti, D.; Muniruzzaman, M.; Izsák, B.; Vargha, M.; Horváth, Á.; Pándics, T.; Erőss, A. (2021) Geokémiai modellezés alkalmazása felszínalatti vizek radionuklid tartalmának vizsgálatakor – Geochemical modeling to understand the natural radioactivity of groundwater. Abstract. 16th Carpathian Basin Online Conference for Environmental Sciences - XVI. Kárpát-medencei Környezettudományi Online Konferencia, Hungary, 30 March-1 April 2021.
Baják, P.; Csondor, K.; Surbeck, H.; Izsák, B.; Vargha, M.; Horváth, Á.; Pándics, T.; Erőss, A. (2020): Hydrogeology as an efficient tool for evaluating natural radionuclide content of drinking water. Abstract. 9th Interdisciplinary Doctoral Conference - IX. Interdiszciplináris Doktorandusz Konferencia, Pécs, Hungary, 27-28 November 2020.
Baják, P.; Csondor, K.; Surbeck, H.; Izsák, B.; Vargha, M.; Horváth, Á.; Pándics, T.; Erőss, A. (2020): The natural radioactivity of groundwater from a hydrogeological point of view. Abstract. Current Research of Environmental Sciences in the Carpathian Basin - Kárpát-medencei Környezettudományi Kutatások Aktuális Eredményei, Budapest, Hungary, 4-6 June 2020.
Baják, P. (2020): Felszínalatti vizek természetes radioaktivitásának hidrogeológiai szempontú vizsgálata a Velencei-hegység tágabb környezetében. Abstract. XVII. Országos Felsőoktatási Környezettudományi Diákkonferencia, Gödöllő, Hungary, 15 September 2020.
Baják, P. (2019): A felszínalatti vizek rádiumtartalmának hidrogeológiai megközelítése a Velencei-tó déli előterében. Abstract. XXXIV. Országos Tudományos Diákköri Konferencia: Fizika, Földtudományok és Matematika Szekciója, Eger, Hungary, 23-26 April 2019.
Baják, P.; Csondor, K.; Surbeck, H.; Izsák, B.; Vargha, M.; Horváth, Á.; Pándics, T.; Erőss, A. (2019): A felszínalatti vizek természetes radioaktivitása hidrogeológiai megközelítésben – egy esettanulmány

példáján. Abstract. Felszín, Alatti Vizekért Alapítvány XXVI. Almássy Endre konferencia a felszín alatti vizekről, Siófok, Hungary, 26-27 March 2019.
Baják, P.; Csondor, K.; Surbeck, H.; Izsák, B.; Vargha, M.; Horváth, Á.; Pándics, T.; Erőss, A. (2019): A biztonságos ivóvízellátás új megvilágításban: a hidrogeológia szerepe az ivóvizek természetes radionuklid tartalmának megértésében. Abstract. Professzorok az Európai Magyarországért Egyesület XIX. PhD konferenciája, Budapest, Hungary, 14 November 2019.
Baják, P.; Csondor, K.; Erőss, A. (2019): Radionuclide content of groundwater in hydrogeological approach – case study of the adjacent areas of Lake Velence. Abstract. 50. Meeting of Young Geoscientists - 50. Ifjú Szakemberek Ankétja. Ráckeve, Hungary, 29-30 March 2019.
Co-authored conferences:
Rapai, T., Baják, P., Lukács, A., Székely, B., and Erőss, A. (2024): Understanding near-surface hydrogeological processes around Lake Velence (Hungary) – using mesh graph neural networks on multidimensional remote sensing data. Abstract. European Geosciences Union (EGU) General Assembly 2024, Vienna, Austria, 14–19 April 2024, no. EGU24-5561.
Hegedűs-Csondor, K., Surbeck, H., Baják, P., and Mádl-Szőnyi, J. (2024): Rapid field measurement of uranium in water samples. Abstract. European Geosciences Union (EGU) General Assembly 2024, Vienna, Austria, 14–19 April 2024, no. EGU24-12506.
Pénzes, V., Erőss, A., Hegedűs-Csondor, K., Baják, P., Horváth, Á., and Czuppon, G. (2024): Investigating the groundwater contribution to the lakes and streams by environmental tracers in the catchment area of Lake Velence (Hungary). Abstract. European Geosciences Union (EGU) General Assembly 2024, Vienna, Austria, 14–19 April 2024, no. EGU24-941.
Hegedűs-Csondor, K., Jávorcsik, R., Dawn Garcia, R., Baják, P., Kohuth-Ötvös, V., and Erőss, A. (2024): Regional groundwater flow mapping in NE Hungary – a tool to understand drinking water quality and quantity problems for sustainable resource management. Abstract. European Geosciences Union (EGU) General Assembly 2024, Vienna, Austria, 14–19 April 2024, no. EGU24-12831.
Bidar Kahnamuei, S., Hegedűs-Csondor, K., Baják, P., Horváth, Á., Szieberth, D., Czuppon, G., Vargha, M., Izsák, B., and Erőss, A. (2024): Identifying Mixing Components by Natural Tracers in the Lake Hévíz System. Abstract. European Geosciences Union (EGU) General Assembly 2024, Vienna, Austria, 14–19 April 2024, no. EGU24-888.
Erőss, A., Baják, P., Mezei, M. M., Csiszár, E., Hegedűs-Csondor, K., Izsák, B., Vargha, M., Czuppon, G., and Horváth, Á. (2024): Spatial and temporal variabiliy in drinking water quality in a riverbank filtered drinking water supply system, EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-13213, https://doi.org/10.5194/egusphere-egu24-13213, 2024.
Bidar Kahnamuei, S., Hegedűs-Csondor, K., Baják, P., Horváth, Á., Szieberth, D., Czuppon, G., Vargha, M., Izsák, B., Németh, Gy., Tóth, Gy., and Erőss, A. (2024): Application of natural radionuclides in the hydrogeological characterization of karst system supplying the Lake Hévíz. Abstract. 54. Meeting of Young Geoscientists – 54. Ifjú Szakemberek Ankétja, Eger, Hungary, 5-6 April 2024.
Erőss, A.; Baják, P.; Csepregi, A.; Szabó, P. (2023): Investigation of groundwater discharge and projection of future lake level changes of Lake Velence by using numerical simulation. Abstract. 19th World Lake Conference, Balatonfüred, Hungary, 7-9 November 2023.
Erőss, A.; Baják, P.; Molnár, B.; Hegedűs-Csondor, K.; Tiljander, M.; Izsák, B.; Vargha, M.; Horváth, Á.; Jobbágy, V.; Hult, M. et al. (2023): Natural radioactivity in drinking water in the surroundings of a metamorphic outcrop in Hungary: interpretation of practical problems in groundwater flow system context. Abstract. European Geosciences Union (EGU) General Assembly 2023, Vienna, Austria, 23–28 April 2023. no. EGU23-12238.
Mezei, MM.; Baják, P.; Csiszár, E.; Hegedűs-Csondor, K.; Izsák, B.; Vargha, M.; Horváth, Á.; Erőss, A. (2023): Investigation of naturally occurring radionuclides in a riverbank filtered drinking water supply system. Abstract. European Geosciences Union (EGU) General Assembly 2023, Vienna, Austria, 23–28 April 2023. no. EGU23-13829.

Mezei, MM.; Baják, P.; Csiszár, E.; Hegedűs-Csondor, K.; Izsák, B.; Vargha, M.; Horváth, Á.; Erőss, A. (2023): Naturally occurring radionuclides in a riverbank filtration system - potential health threat or indicators of temporal variability. Abstract. 53. Meeting of Young Geoscientists – 53. Ifjú Szakemberek Ankétja, Nagybörzsöny, Hungary, 31 March-1 April 2023.
Chappon, M.; Baják, P.; Erőss, A.; Bene, K. (2022): Uncertainties in the calculation of the Lake Velence water budget. Abstract. Hydro-Carpath-2022: Hydrology Of The Carpathian Basin: Synthesis Of Data, Driving Factors And Processes Across Scales. Vienna, Austria, 24 November 2022.
Erőss, A.; Baják, P.; Hegedűs-Csondor, K.; Izsák, B.; Vargha, M.; Pándics, T.; Horváth, Á.; Jobbágy, V.; Pelczar, K.; Hult, M. (2022): Environmental radioisotopes in hydrogeological studies. Abstract. VIII. Terrestrial Radioisotopes in Environment International Conference on Environmental Protection, Vonyarcvashegy, Hungary, 4-7 October 2023.
Erőss, A.; Baják, P.; Hegedűs-Csondor, K.; Izsák, B.; Vargha, M.; Pándics, T.; Horváth, Á. (2022): Ivóvizek természetes radioaktivitásának eredete az elmúlt évek kutatási eredményeinek tükrében. Abstract. Felszín Alatti Vizekért Alapítvány XXVIII. Almássy Endre konferencia a felszín alatti vizekről, Siófok, Hungary, 14-15 September 2022.
Molnár, B.; Baják, P.; Erőss, A.; Csondor, K.; Jobbágy, V.; Izsák, B.; Vargha, M.; Pándics, T.; Horváth, Á. (2022): Radioactive spring waters? Natural radioactivity and rock-water interactions in the springs of Sopron Mountains. Abstract. 52. Meeting of Young Geoscientists - 52. Ifjú Szakemberek Ankétja, Orosháza, Hungary, 25-26 March 2022.
Molnár, B.; Baják, P.; Csondor, K.; Jobbágy, V.; Izsák, B.; Vargha, M.; Pándics, T.; Horváth, Á.; Erőss, A. (2022): Natural radioactivity and rock-water interactions in the springs of Sopron Mountains (Hungary). Abstract. European Geosciences Union (EGU) General Assembly 2022, Vienna, Austria, 23–27 May 2022. no. EGU22-10323. no. EGU22-10471.
Csondor, K.; Baják, P.; Izsák, B.; Vargha, M.; Surbeck, H.; Horváth, Á.; Erőss, A. (2021): Evaluation of a natural uranium contamination of a riverbank filtered drinking water supply system. Abstract. International Symposium on Geofluids Virtual Event, Hungary, 7-9 July 2021.
Erőss, A.; Baják, P.; Csondor, K.; Izsák, B.; Vargha, M.; Horváth, Á.; Pándics, T. (2021): Geogenic radionuclide contamination in groundwater –a new challenge in drinking water supply. Abstract. International Symposium on Geofluids Virtual Event, Hungary, 7-9 July 2021.
Csondor, K.; Baják, P.; Izsák, B.; Vargha, M.; Surbeck, H.; Horváth, Á.; Erőss, A. (2020): Natural radioactivity of riverbank filtered drinking water supply systems - a new challenge. Abstract. Current Research of Environmental Sciences in the Carpathian Basin - Kárpát-medencei Környezettudományi Kutatások Aktuális Eredményei, Budapest, Hungary, 4-6 June 2020.
Csondor, K.; Baják, P.; Izsák, B.; Vargha, M.; Surbeck, H.; Horváth, Á.; Erőss, A. (2020): Radioactivity assessment of drinking water - a case study from a mixed bank filtered and karst water supply system. Abstract. VII. Terrestrial Radioisotopes in Environment: International Conference on Environmental Protection, Veszprém, Hungary, 10-13 August, 2020.
Csondor, K.; Baják, P.; Izsák, B.; Vargha, M.; Surbeck, H.; Horváth, Á.; Erőss, A. (2020): Transient nature of riverbank filtered drinking water supply systems - a new challenge of natural radioactivity assessment. Abstract. European Geosciences Union (EGU) Online General Assembly 2020, Austria, 4–8 May 2020. no. EGU2020-14554.
Erőss, A.; Csondor, K.; Baják, P.; Surbeck, H.; Izsák, B.; Horváth, Á.; Vargha, M.; Pándics, T. (2019): Natural radioactivity of groundwater, the new challenge in drinking water quality: how can flow system approach help? Abstract. 46th IAH Congress, Malaga, Spain, 22-27 September 2019. no. 652.
Csondor, K.; Baják, P.; Izsák, B.; Vargha, M.; Surbeck, H.; Horváth, Á.; Erőss, A. (2019): Radioactivity assessment of drinking water - a case study from a mixed bank filtered and karst water supply system. Abstract. European Geosciences Union (EGU) Gather Online 2019, Vienna, Austria, 7–12 April 2019. no. EGU2019-16963.

OTHER INFORMATION

Abroad experience:

2023: Erasmus+ traineeship (ongoing), five months at the University of Milan (Milan, Italy)

2022: CHARM-EU Blended Intensive Programme, two weeks in Montpellier, Grenoble (France)

2021: ENeRAG project student exchange, two months at the University of Milan (Milan, Italy)

2021: ENeRAG project student exchange, two weeks at the Geological Survey of Finland (Espoo, Finland)

2020: Erasmus+ traineeship, three months at the University of Leeds (Leeds, UK)

Supervision:

MSc thesis co-supervisor: Máté Márk Mezei (2023), Solongo Otgonbayar (2023)

BSc thesis advisor: Tamás Csapó (2021)

Student research work co-supervisor: Máté Márk Mezei (2022), Bence Molnár (2021)

Teaching assistant:

2020/21/1 Groundwater as a geologic agent

2020/21/1 Fluids in geology

2020/21/2 Introduction to Hydrology

2020/21/2 Hydrogeology Field Trip

Science outreach activities:
2017, 2018, 2019 Presentations for high school students about hydrogeology (Budapest, Szombathely)

2018 Presentation for high school students about sustainability and groundwater resources (Szombathely)

2016-2023 Volunteering at scientific events organized for children (Medve Szabadtéri Matekverseny 2016-2017, Mesélő Kövek Geotúra 2016-2017, Felfedezők Napja 2017-2018, Kutatók Éjszakája 2016-2017, 2023, Földtudományos Forgatag 2018, Nemzetközi Duna Nap 2019)

2019 – 2021: Occasional tourist guide in Szemlő-hegy Cave (Budapest)

Work experience:

10/2021–03/2023 Hydrosys Ltd. (Budapest, Hungary), part-time associate (data processing, GIS)

12/2018–03/2019 Biocentrum Environmental Protection & Water Management Ltd. (Budapest, Hungary), part-time assistant (data processing)

05/2018–06/2018 József and Erzsébet Endowed Hydrogeology Chair & Foundation (Budapest, Hungary), assistant (administration, event organization)

11/2015–10/2018 Wessling Hungary Ltd. (Budapest, Hungary), fixed-term field assistant (soil sampling)

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

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Place and date: Budapest, 1 May 2024

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