

Rasa Šliaupienė

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

2014-11-21 PhD thesis “Prospects of CO₂ geological storage in the Baltic sedimentary basin” (N 005 Geology)
2010 – 2013 PhD studies at Institute of Geology and Geography of Nature Research Centre
1982–1987 Vilnius University, Diploma Hydrogeology and Engineering geology

PROFESSIONAL EXPERIENCE

2022.05 until now Engineer at Nature Research Centre Laboratory of Bedrocks geology
2017–2022.05 Scientific Researcher at Nature Research Centre Laboratory of Bedrock geologygeology
2010– 2017 Junior Scientific Associate at Nature Research Centre Laboratory of Bedrockgeology
2004–2010 Junior Scientific Associate at Institute of Geology Department of Tectonics
2002-2004 Junior Scientific Associate at Institute of Geology Department of Petroleum Geology
2002–2004 Assistant at Institute of Geology Department of Petroleum Geology
1988–1994 Geologist Engineering of Research Institute
1987–1988 Junior Geologist of Engineering Research Institute

RESEARCH INTERESTS

CO₂ geological storage, risk factors, evaluation of CO₂ storage potential, CO₂ economic modelling, CCUS, CO₂ storage sealing, shale gas, oil geology, EOR (Enhanced Oil Recovery), geothermic, CO₂ utilization in geothermal energy recovery.

PUBLICATIONS

Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (with citation index):

1. Šliaupa, S., Lazauskienė, J., Lozovskis, S., Šliaupienė, R. 2020. Distribution of organic matter and evaluation of brittleness index of the Lower Silurian shales of west Lithuania based on interpretation of well logs. *Baltica*. 33 (2): 146–165.
2. Šliaupa, S., Lozovskis, S., Lazauskienė, J., Šliaupienė, R. (2020) Petrophysical and mechanical properties of the lower Silurian perspective oil/gas shales of Lithuania. *Journal of Natural Gas Science and Engineering*. 79: art. no. 103336.
3. Šliaupa, S., Satkūnas, J., Motuza, G., Šliaupienė, R. 2017. Morphotectonic implication of the Paleoproterozoic Mid-Lithuanian Suture Zone. *Geological Quarterly*. 61 (3): 590-601.
4. Šliaupa S., Šliaupienė R., Žalūdienė G., Vaskaboinikava T., Bibikava A., Evstratenko L., Kovkhuto A. 2016. Prospects of Lithuanian Silurian shale gas, Baltic sedimentary basin. *Oil Shale*. 33 (4): 357-372.
5. Šliaupa S., Lojka R., Tasáryová Z., Kolejka V., Hladík V., Kotulová J., Kucharič L., Fejdi V., Wójcicki A., Tarkowski R., Uliasz-Misiak B., Šliaupienė R., Nulle I., Pomeranceva R., Ivanova O., Shogenova A. and Shogenov K., 2013. CO₂ storage potential of sedimentary basins of Slovakia, the Czech Republic, Poland and Baltic States. *Geological Quarterly*, 57 (2). 219–232. ISSN 1641-7291.
6. Šliaupa, S., Shogenova, A., Shogenov, K., Šliaupienė, R., Zabele, A. and Vaher, R., 2008. Industrial carbon dioxide emissions and potential geological sinks in the Baltic States. *Oil Shale*, 25(4). 465–484. ISSN 0208-189X.

Other reviewed scientific publications (books, books' chapters, collections of articles, articles, textbooks and etc.):

1. Šliaupa S., Lozovskis S., Lazauskienė J., Šliaupienė R. 2018. Lietuvos apatinio silūro perspektyvių naftos / dujų skalūnų petrofizinės ir mechaninės savybės. *Geologija. Geografija*. 4 (4): 191–194.
2. Šliaupienė R., Šliaupa S., 2012. Risk factors of CO₂ geological storage in the Baltic sedimentary basin. *Geologija*, 54, 3(79). 100–123. ISSN 1392-110X
3. Šliaupa S., Baliukevičius A., Dėnas Ž., Šliaupienė R., 2012. Reflection of the Palaeoproterozoic Mid-Lithuanian Suture Zone in the overlying sedimentary cover. *Geologija*. Vilnius. Vol. 54. No. 2. P. 53–73. ISSN 1392–110X.
4. Šliaupienė R., Šliaupa S., 2011. Prospects for CO₂ geological storage in deep saline aquifers of Lithuania and adjacent territories. *Geologija*. Vilnius, 53, 3(75). 130–142. ISSN 1392-110X.
5. Shogenova A., Šliaupa S., Shogenov K., Šliaupienė R., Pomeranceva R., Vaher R., Uibu M., Kuusik R., 2009. Possibilities for geological storage and mineral trapping of industrial CO₂ emissions in the Baltic region. *Energy Procedia*. Vol. 1, iss. 1. 2753–2760. ISSN 1876-6102
6. Zakarevičius A., Šliaupa S., Anikėnienė A., Dėnas Ž., Šliaupienė R., 2008. Model of recent vertical movements of the Earth's surface in Lithuania: integration of geodetic leveling data and geological parameters. *Geologija* 4 (64), 254–263
7. Šliaupa S., Satkūnas J., Šliaupienė R., 2005. Anglies dvideginio geologinio laidojimo perspektyvos Lietuvoje. *Geologija*. Nr. 51(3). 19-28. ISSN 1392-110X
8. R. Šliaupienė, S. Šliaupa, 2021. Spindulinis hidraulinis grėžimas – hidraulinio uolienu ardymo alternatyva geoterminiuose grėžiniuose. *Geologijos akiračiai*, 3-4/2021: 69–76.
9. Lozovskis S., Šliaupa S., Lazauskienė L., Šliaupienė R. 2020. Lietuvos apatinio silūro dujų skalūnų perspektyvos – geologinis vertinimas. *Geologijos akiračiai*. 3-4: 25-36.

10. Šliaupa, S.; Asejevas, V.; Cimoš, R.; **Šliaupienė, R.**; Petrošius, R.; Žukauskas, G. 2010. Geoclimatic conditions and adaptive psychosomatic diseases in the Baltic sea region: a comparative analysis. *Sveikatos mokslai [Health Sciences]*, 20(2): 292-2935.
11. Dėnas Ž., Kumetaitis A., Šliaupa S., Zakarevičius A., **Šliaupienė R.** 2006. Lietuvos žemės paviršiaus erozijos modeliavimas ir kartografavimas taikant GIS technologijas. *Geodezija ir kartografija*. Vol. 32(3). P. 57–61.
12. Vosylius G., **Šliaupienė R.**, Vikšraitienė J., 2004. Struktūrų vystymasis ir kambro kolektorių facijiniai bei antriniai pakitimai Vakarų Lietuvoje. *Geologija*. Nr. 46(2). 8–16. ISSN 1392-110X
13. Šliaupa S., Katinas V., Vosylius G., **Šliaupienė R.**, Vėjelytė I., 2002. Telšių lūžio paleoįtampų rekonstrukcija Vakarų Lietuvoje. *Geologija*, 38. 12–23. ISSN 1392-110X.
14. Shogenova, A., Šliaupa, S., Shogenov, K., **Šliaupienė, R.**, Pomeranceva, R., Uibu, M., Kuusik, R. (2009): CO₂ geological storage and mineral trapping potential in the Baltic region. *Slovak Geological Magazine*. 5–14. ISSN 1335-096X.
15. Zakarevičius, A.; Šliaupa, S.; **Šliaupienė, R.**; Stanionis, A.; Grala, M. 2010. Recent earth's crust deformations of Lithuania derived from geodetic measurements, in the 10th International Conference "Modern Building Materials, Structures and Techniques": Selected papers, Vol. 2. Ed. by P. Vainiūnas, E. K. Zavadskas, May 19–21, 2010, Lithuania. Vilnius: Technika, 1181–1185.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

- 2016 - 2019 Horizon 2020 - Novel Productivity Enhancement Concept for a Sustainable Utilization of a Geothermal Resource - SURE (2016-2019 m.) (<https://cordis.europa.eu/project/id/654662>); **project participant**
- 2017 CGS Baltic Seed project (S81). Financed by the European Union seed money facility as part of the EU strategy for the Baltic Sea Region – EUSBSR (2017) (https://bcforum.net/content/CGSBalticSeedProject_SubstanceReport_2017.pdf); **project participant**
- 2005 - 2008 FP6 - ENhanced Geothermal Innovative Network for Europe - ENGINE (2005-2008 m.) (<http://engine.brgm.fr/>); **project participant**
- 2006 - 2008 FP6 - Assess the European Capacity for Geological Storage of Carbon Dioxide – EU GeoCapacity (2006-2009) (<http://www.geology.cz/geocapacity>); **project participant**

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences (recently):

1. Shogenova A., Šliaupa S., **Šliaupienė R.**, Shogenov K., Jõelett A., Zajacs A. (2022) Geothermal potential of the Baltic States - prospects and challenges. Geothermal-DHC regional cluster workshop "Geothermal energy – unleashing the potential of supplying district heating and cooling networks in the Baltics": 30th of September 2022. Latvia, Riga
2. Shogenova, A.; Šliaupa, S.; Shogenov, K.; **Šliaupienė, R.** (2022). Underground Hydrogen Storage in the Baltic Countries: Future Outlook for Lithuania. 83rd EAGE Annual Conference & Exhibition: 83rd EAGE Annual Conference & Exhibition, Madrid, 6-9 June 2022. Amsterdam, The Netherlands: *European Association of Geoscientists & Engineers*, 1–5. DOI: 10.3997/2214-4609.202210707.
3. Lozovskis S., Šliaupa S., Lazauskienė L., **Šliaupienė R.** (2021) Alternative energy resources in Lithuania - shale gas perspective The EGU General Assembly.

4. Lozovskis S., Šliaupa S., Lazauskienė L., **Šliaupienė R.** (2021) Assessment of key exploitation parameters of the Lower Silurian gas shales of west Lithuania. International Scientific Conference by University of Latvia.
5. Lozovskis S., Šliaupa S., Lazauskienė S., **Šliaupienė R.** (2020) New studies on petrophysical properties of shales for potential gas exploration. International conference for students of physics and natural sciences - Open reading. <https://www.openreadings.eu/wp-content/uploads/2020/04/knyga20N.pdf>

OTHERS

1. Šliaupienė R., **Šliaupa S.** 2021. Radial jet drilling – alternative to hydrofracturing in geothermal wells. *Geologijos akiraičiai*, 2021 (3-4): 69-76.
2. Šliaupienė R., **Šliaupa S.** 2022. CO₂ geological storage in Lithuania – actual and fictitious. *Geologijos akiraičiai*, 2022 (3-4): 41-49.