

# Jonas Mažeika

## CONTACT INFORMATION

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Address Akademijos Str. 2, Vilnius LT-08412, Lithuania  
Tel. No.: +370 5 210 47 03  
E-mail: [jonas.mazeika@gamtc.lt](mailto:jonas.mazeika@gamtc.lt)  
<https://orcid.org/0000-0003-1168-5394> ;  
<https://www.researchgate.net/profile/Jonas-Mazeika>;  
<https://www.linkedin.com/in/jonas-ma%C5%BEEika-177566237/>

## EDUCATION AND ACADEMIC DEGREE

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1999 Habilitation Thesis in Physical Sciences, Vilnius University and Institute of Geology, Lithuania.  
1989 – 1991 Habilitation thesis: Radionuclides Transfer in Geoenvironment of Lithuania.  
PhD Thesis in Natural Sciences (Doctor by Nostrification in 1993), Belarusian NAS Institute of Geochemistry and Geophysics.  
Thesis: Application of isotope methods (H-3 and C-14) for radionuclide transport studies in hydrosphere of Ignalina NPP vicinity (submitted 11/1991).  
1979 – 1984 Vilnius University, Lithuania, Diploma in Hydrogeological Engineering.

## PROFESSIONAL EXPERIENCE

2016 – up to now Head of Laboratory of Nuclear Geophysics and Radioecology, chief researcher, Nature Research Centre  
2010 – 2016 Head of Laboratory of Nuclear Geophysics and Radioecology, senior scientific researcher, Nature Research Centre  
2003 – 2009 Head of Radioisotope Research Laboratory, chief researcher, Institute of Geology and Geography, Vilnius, Lithuania  
2001 – 2003 Head of Radioisotope Research Laboratory, chief researcher, Institute of Geology, Vilnius, Lithuania.  
1992 – 2001 Head of Radioisotope Research Laboratory, senior scientific researcher, Institute of Geology, Vilnius, Lithuania.  
1985 – 1992 Engineer, Institute of Geology, Vilnius, Lithuania.

## RESEARCH INTERESTS

Assessment of significant environmental changes in the past and present using nuclear chronology (fall out radionuclides Pb-210, Cs-137, Am-241, etc., radiocarbon (C-14) dating) and stable isotope ratio (C-13/ C-12, etc.) methods; studies of the distribution and transfer of artificial and natural radionuclides in terrestrial and aquatic ecosystems in the vicinities of the main nuclear facilities of the region, using experimental nuclear and radiochemical methods, paying great attention to the distribution of mobile radionuclides H-3 and C-14 in ecosystems.

## PUBLICATIONS

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About 150 scientific articles and 2 monographs have been published (over 70 scientific articles in CA WoS).

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

1. **Mažeika, J.**, Jefanova, O., Petrošius, R., Lujanienė, G., Skuratovič, Ž. 2022. C-14 and other radionuclides in the environment in the border region of Lithuania before the start of the Belarussian nuclear power plant operation. *Radiocarbon*, 1–14. <https://10.1017/RDC.2022.20>
2. Jefanova O., **Mažeika J.**, Petrošius R., Skuratovič Ž., Paškauskas R., Martma T., Liblik T. & Ezhova E. 2020. Baltic Sea water tritium and stable isotopes in 2016–2017. *Isotopes in Environmental and Health Studies*, DOI: 10.1080/10256016.2020.1715969.
3. Jefanova, O., Baužienė, I., Lujanienė, G., Švedienė, J., Raudonienė, V., Bridžiuvienė, D., Paškevičius, A., Levinskaitė, L., Žvirgždąs, J., Petrošius, R., Skuratovič, Z., **Mažeika, J.** 2020. Initiation of radioecological monitoring of forest soils and plants at the Lithuanian border region before the start of the Belarusian nuclear power plant operation. *Environmental Monitoring and Assessment*, 192, 666. <https://doi.org/10.1007/s10661-020-08638-y>
4. Jefanova O., **Mažeika J.**, Petrošius R., Skuratovič Ž., 2018. The distribution of tritium in aquatic environments, Lithuania. *Journal of Environmental Radioactivity*, Volume 188, 2018, 11–17, ISSN 0265-931X, <https://doi.org/10.1016/j.jenvrad.2017.11.028>.
5. Lujanienė G., Li H.-C., **Mažeika J.**, Paškauskas R., Remeikaitė-Nikienė N., Garnaga-Budrė G., Levinskaitė L., Jokšas K. Bugailiškytė D., ŠemčukS., Kačergius A., Stankevičius A., Stirbys V., Povinec P.P. 2018. Carbon Isotopes as Tracers of Organic and Inorganic Carbon in Baltic Sea Sediments. *Radiocarbon*, 60(5): 1493–1505.

**PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS**

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Participated in dozens of programmes and projects (IAEA, NATO, RCL, etc.).

Some of them:

2019 – till present	Hydrogeological modelling and analysis for the reconstruction of the INPP bituminised radioactive waste storage facility and its conversion into a repository, European Union Ignalina Programme
2015 – 2016	EuropeAid/136380/DH/SER/IQ Contract № 2015/357-197, assistance in the equipment of radiochemical laboratories for Central Laboratories Directorate at Al Thuwaita Nuclear Research Centre in Iraq, European Commission
2013 - 2016	Lithuanian-Swiss programme research and development joint research project “Climate change in peatlands: Holocene record, recent trends and related impacts on biodiversity and sequestered carbon” (CLIMPEAT), Research Council of Lithuania

**INTERNSHIP AND TRAINING**

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In the field of isotopic research, did an internship in the research centres of the USSR. In the field of radiation physics, radiation protection and radioactive waste management, participated in trainings at European nuclear research centres.

Some of them:

2011	„Training on Nuclear Waste Analysis for Decommission“, Risoe DTU National Laboratory for Sustainable Energy, Denmark
2004	„Training on Safety Analysis of Lithuanian crystalline rock repository for Spent Nuclear Fuel“, KTH Royal Institute of Technology, Sweden
1998	„Nordic-Baltic Training Course in Environmental Radioactivity“, Lund University, Sweden

**PARTICIPATION IN SCIENTIFIC CONFERENCES**

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Participated in dozens of international scientific conferences.

Selected international scientific conferences:

1. **Mažeika J.**, Jefanova O., Rimantas, R., Lujanienė G., Skuratovič, Ž. 2021. C-14 and other radionuclides in the environment at the Lithuanian border region before the start of the Belarusian nuclear power plant operation. *3rd International Radiocarbon in the Environment Conference*, 5-9 July 2021, Gliwice, Poland.

2. Jefanova O., **Mažeika J.**, Petrošius R., Skuratovič Ž. 2017. The distribution of tritium in the aquatic environments, Lithuania. *4th International Conference on Environmental Radioactivity: Radionuclides as Tracers of Environmental Processes*, 29 May – 2 June 2017 Vilnius, Lithuania.

3. Skuratovič Ž., **Mažeika J.**, Petrošius R., Martma T. 2015. Investigations of the unsaturated zone at two radioactive waste disposal sites in Lithuania. *International Symposium on Isotope Hydrology: Revisiting Foundations and Exploring Frontiers*. 11–15 May 2015. IAEA Headquarters, Vienna, Austria.

### **PARTICIPATION IN THE STUDY PROCESS**

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Scientific supervisor of 5 doctoral students; 1 postdoctoral internship supervisor; Council member or opponent of more than 20 doctoral theses (physics, environmental engineering and landscape management, thermal engineering, geology, biology, etc.).

Textbook for high schools (Hydrogeochemistry, 2006, co-author R. Mokrik), teaching special courses at Vilnius University 1996-2011.

### **OTHERS**

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Member of the editorial board of the "Journal of Environmental Engineering and Landscape Management" (Vilnius, VGTU).

Young scientist scholarship (Ministry of Education and Science) in 1992; the Lithuanian Academy of Sciences J. Dalinkevičius name prize for a young scientist in 1993; Lithuanian Science Prize 2007 (together with R. Mokrik).