



Tamara Gvartadze

Position

Senior Scientist of the Department of the Stratigraphy and Paleontology of the Alexandre Janelidze Institute of Geology.

Scientific/academic degree, title

Candidate of geological-mineralogical sciences (1986). Dissertation topic - "Nannoplankton of Paleogene deposits of Abkhazia and its biostratigraphic significance".

Contact information

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Education

1966-1971 – Tbilisi State University, Faculty of Geography-Geology. Specialization: paleontology and stratigraphy. Engineer-geologist.

Employment history

2009-present – Senior Scientist of the Department of the Stratigraphy and Paleontology of the Alexandre Janelidze Institute of Geology of Ivane Javakishvili Tbilisi State University.

2006-2009 – Head of the Department of Micropaleontology of the LEPL Alexandre Janelidze Institute of Geology. Chief scientist.

1987-2006 – Senior Scientist of the Department of the Stratigraphy and Paleontology of the Alexandre Janelidze Geological Institute of the Georgian Academy of Sciences.

1973-1986 – Scientist of the Department of the Stratigraphy and Paleontology of the Alexandre Janelidze Geological Institute of the Georgian Academy of Sciences.

Research interests

Stratigraphy, biostratigraphy, paleoecology, paleontology, paleogeography, petroleum geology, mineral (gold, copper, etc.) geology, regional geology, eustatic fluctuations of the world ocean level, geological mapping, delineation, critical stages of ecosystem changes, Meso-Cenozoic deposits stratigraphic boundaries problems.

Publications

1. **T.T. Gvartadze**, *Kh.E. Mikadze, Z.M. Chkhaidze*. (2021). Comparison of Nannoplankton Complexes, planktonic foraminifers and Macrofauna in the sections of East Georgia //Paleontology, stratigraphy and paleogeography of the Mesozoic and Cenozoic boreal regions.VII Sax's readings. (2021). Pp. 36-40 (in Russian)
2. *Koiava K., Gvartadze T., Glonti V., Kvaliashvili L., Mauville J., Mosar J.* (2018). Late Triassic age of Moshevani suite of the Loki massif (Georgia, the Caucasus)//*Geofizicheskii Zhurnal* (Geophysical Journal) 40(6), pp. 80-95.
3. *Adamia S.A., Chkhotua T.G., Gvartadze T.T., Lebanidze Z.A., Lursmanashvili N.D., Sadradze N.G., Zakariaia D.P., Zakariadze G.S.* (2017).Tectonic setting of Georgia – Eastern Black Sea: a review. In: Sosson, M., Stephenson, R. and Adamia, S. (Eds), *Tectonic Evolution of the Eastern Black Sea and Caucasus: an introduction*// Geological Society, London, Special Publications, 428, pp. 11-40.
4. *Sadradze N., Adamia Sh., Beridze T., Gvartadze T., Migineishvili R.* (2017). Magmatism and ore formation on the example of Upper Cretaceous Bertakari and Bneli Khevi ore deposits, Bolnisi ore district, Georgia//*Geofizicheskii Zhurnal* (Geophysical Journal) 39(4), pp. 111-114.
5. **Gvartadze T.** (2015). Influence of the environment on the evolution of Nannoplankton in the Paleocene-Eocene marine basin of Georgia// *Proceedings of TSU Al. Janelidze Institute of Geology. New series, issue 127.* Pp.73-87 (in Russian).
6. **Gvartadze T., Mikadze Kh., Chkhaidze Z.** (2015). Chronostratigraphic relation of the Upper Cretaceous of the Georgian Military Road according to nannoplankton and micro-foraminifers// *Proceedings of TSU Al. Janelidze Institute of Geology. New series, issue 127.* Pp.63-73 (in Georgian).
7. *Mikadze Kh., Menabde A., Gvartadze T.* (2014). Some data about the stratigraphy of the Upper Cretaceous volcanic facies (Mtavari) as on planktonic foraminifera// *Geologica Carpathica. Tirana. Albania. Special issue, v. 2. General Sessions.* pp. 69-73.
8. *Mikadze Kh., Gvartadze T., Menabde A., Chkhaidze Z.* (2014). Conditions of habitat of foraminifers and nannoplankton in the Late Cretaceous flysch basin of East Georgia (Mestia-Tianet zone)//*Cretaceous system of Russia and neighboring foreign countries: problems of stratigraphy and paleogeography. Materials of the VII All-Russian meeting. Vladivostok.* Pp. 213-216 (in Russian).
9. *Mrevlishvili N.I., Gvartadze T.T., Mikadze Kh.G., Popkhadze L.I., Tsirekidze L.R., Minashvili Ts.I., Zakaraya D.P., Chkhaidze Z.M.* (2011). Biostratigraphy of Meso-Cenozoic deposits of the Ksani and Aragvi river basins by microforaminifers and nannoplankton. Monograph. Publishing House "Matsne", 246p. (in Russian).
10. **Gvartadze T., Mikadze Kh., Chkhaidze Z.** (2010).Biostratigraphy of the Upper Cretaceous Sediments of the Ksani and Aragvi River Gorges by Microforaminifers and Nannoplankton.

Proceedings of XIX Congress of the Carpathian-Balkan Geological Association, 23-26 September, 2010, Thessaloniki, Greece. Spec. Vol. 99. Pp. 75-84.

11. *Migineishvili R., Gvartadze T.* (2010). Age of the Madneuli Cu-Au Deposit. Georgia: Evidence from New Nannoplankton Data//Bulletin of the Georgian National Academy of Sciences, 4(1), pp. 85-91.
12. *Migineishvili R., Gvartadze T.* (2009). Ore Concretions of Madneuli Copper-Ore Deposit //Georgian Oil and Gas, v. 25, pp. 97 – 108.
13. *Gvartadze T., Mikadze Kh., Chkhaidze Z.* (2009). The Biostratigraphy of Upper Cretaceous sediments in the river Ksani (nannoplankton and microfauna)//Paleont. Society of Azerbaijan. Vol.1, pp. 28-31.
14. *Radionova E.P., Aleksandrova G.N., Gvartadze T.T., Stupin S.I.* (2008). Analysis of Late Paleocene–Early Eocene Microplankton from the Kheu River Section (Central Pre-Caucasus// News of Paleontology and Stratigraphy, vol. 10-11. Supplement to the Journal "Geology and Geophysics". Vol. 49, pp. 353-357 (in Russian).
15. *Gvartadze T., Migineishvili R., Khutsishvili S.* (2006). New data on age of host rocks of the Madneuli copper-gold deposit//Oil and Gas of Georgia, N 17, pp. 33-37 (in Georgian).
16. *Gvartadze T., Mrevlishvili N.* (2005). Biostratigraphy of the Paleogene flysch of Mestia-Tianeti zone by nannoplankton//Transactions of Tbilisi State University. Tbilisi, pp. 21-42.
17. *Gvartadze T.T.* (2002). Biostratigraphy of flysch and volcanogenic deposits of the Paleocene and Eocene of the central segment of the Adjara-Trialeti folded zone by nanoplankton// Proceedings of Al. Janelidze Geological Institute of Georgian Academy of Science. New series, issue 117.Pp. 492-505 (in Russian).
18. *Gvartadze T.T.* (1998). Nanoplankton of the Paleocene-Eocene deposits of the Transcaucasian intermountain area and its biostratigraphic significance// Proceedings of Al. Janelidze Geological Institute of Georgian Academy of Science. Pp. 92-100 (in Russian).
19. *Salukvadze N.Sh., Tsagareli E.A., Kacharava M. V., Gvartadze T.T., Khuchua M.F., Maisadze F.D.* (1996). Geological and biotic events of the Late Eocene-Early Oligocene on the territory of the former USSR. Regional Geology of the Upper Eocene and Lower Oligocene//Tr. GIN RAS, no. 489. Part 1. GEOS, Moscow, pp. 87-98 (in Russian).
20. *Adamia Sh., Salukvadze N., Nazarov M., Gongadze G., Gvartadze T., Kilasonia E., Asanidze B.* (1993). Geological Events at the Cretaceous-Paleogene Boundary in Georgia (Caucasus) //Geologica Balcanica. 23(3), pp. 35-43.
21. *Gvartadze T.* (1992). Paleogene Nannoplankton Stratigraphy of Georgia//Mém. di Scien. Geol. Vol. XLIII, pp. 163-170.
22. *Salukvadze N.Sh., Gongadze G.S., Gvartadze T.T., Salukvadze G.N.* (1991). On some bioevents at the turn of the Cretaceous and Paleogene of Georgia // Bulletin of the Academy of Sciences of the GSSR, vol. 144, No. 2, pp. 285-288 (in Russian).
23. *Salukvadze N.Sh., Tsagareli E.A., Gvartadze T.T.* (1990). New data on the stratigraphy of Middle Eocene deposits of the Aapsta river basin// Bulletin of the Academy of Sciences of the GSSR, vol. 137, no. 3, pp. 549-552 (in Russian).
24. *Salukvadze N.Sh., Tsagareli E.A., Gvartadze T.T., Samuel O., Gashparikova V.* (1989). Some issues of biostratigraphy of the boundary layers of the Oligocene and Eocene of the Caucasus and the Western Carpathians// Geologicky ustav D. Stura, Bratislava. Pp. 69-80 (in Russian).

25. *Salukvadze N.Sh., Tsagareli E.A., Epitashvili V.I., Gvartadze T.T., Chubinidze M.Sh.* (1989). Materials on the stratigraphy of the Paleocene and Eocene of the Georgian Block // Proceedings of Al. Janelidze Geological Institute of the Academy of Science of GSSR, new ser., issue. 99, pp. 189-198 (in Russian).
26. *Salukvadze N.Sh., Tsagareli E.A., Epitashvili V.I., Gvartadze T.T., Chubinidze M.Sh.* (1988). On the question of the ratio of the complexes of the fauna and flora of the Paleogene of Abkhazia // Bulletin of Acad. Sci. of GSSR, vol. 129, no. 2, pp. 357-360 (in Russian).
27. *Salukvadze N.Sh., Tsagareli E.A., Gvartadze T.T.* (1987). New data on the Upper Eocene and Oligocene of the Eristkali basin// Bulletin of Acad. Sci. of GSSR, vol. 127, No. 3, pp. 557-579 (in Russian).
28. *Gvartadze T.T.* (1985) Nannoplankton complexes of the Paleocene of Abkhazia// Bulletin of Acad. Sci. of the USSR, Ser. Geol., No. 2, pp. 53-58 (in Russian).
29. *Shumenko S.I., Gvartadze T.T.* (1985). Investigation of limestone nannofossils for the dissection of the Paleogene deposits of Abkhazia // Bull. Kharkov University, pp. 24-26 (in Russian).
30. *Gvartadze T.T.* (1985). Nannoplankton of the Paleocene and Eocene of Abkhazia and its biostratigraphic significance. Stratigraphy and paleontology of Georgia// Proceedings of Al. Janelidze Geological Institute of the Academy of Science of GSSR, new ser., issue 89, pp. 79-85 (in Russian).
31. *Gvartadze T.T.* (1984). Nannoplankton complexes of the Middle Eocene of Abkhazia// Bulletin of Acad. Sci. of the GSSR, v. 114, pp. 98-100 (in Russian).

Participation in scientific forums

1. Micropalaeontological characteristics of upper cretaceous deposits in sections of Eastern Georgia. **Gvartadze T.**, Mikadze Kh., Chkhaidze Z.//11th International Symposium on the Cretaceous. Warsaw, Poland, 22-26 August 2022, pp. 164-165.
2. Distribution of nannoplankton and foraminifers in the boundary sediments of the Cenomanian and Turonian of Eastern Georgia. **Gvartadze T.**, Mikadze Kh., Chkhaidze Z.// LXVIII session of the Paleontological Society. Paleontology and stratigraphy: current state and ways of development. St. Petersburg. Russia, April 25-29, 2022. Pp. 32-33.
3. Biostratigraphy of bordering deposits of the Cretaceous and Paleogene in the eastern part of the Adjara-Trialeti Zone (Lesser Caucasus) by nanno- and microfossils. **Gvartadze T.**, Mikadze Kh., Chkhaidze Z.//LXVII Session of Paleontological Society. Paleontology and Stratigraphy: Theoretical and applied aspects of paleontology. St. Petersburg. Russia. 2021. Pp. 18-20.
4. Comparison of Nannoplankton Complexes, planktonic foraminifers and Macrofauna in the sections of East Georgia. **T.T. Gvartadze**, Kh.E. Mikadze, Z.M. Chkhaidze.//Paleontology, stratigraphy and paleogeography of the Mesozoic and Cenozoic boreal regions: Scientific materials. VIII Sax's readings. Novosibirsk, Russia, April 19-22, 2021. Pp. 36-40.
5. Biostratigraphy of the Cretaceous/Paleogene Boundary Sediments According to Microfossils of the Nichbisi Section. **Gvartadze T.**, Mikadze Kh., Chkhaidze Z.//Power of Geology is the precondition for regeneration of economics. 6th International Scientific-Practical Conference on Up-to-date Problems of Geology. Tbilisi, Georgia, 24-25 September, 2020, pp. 25-26.
6. Eastern Black Sea – Achara-Trialeti Cretaceous-Eocene intra-arc rift structure: new evidences. Sadradze N., Adamia S., Beridze T., **Gvartadze T.**//EGU General Assembly Conference Abstracts, Vienna, Austria, 7-10 April 2019, pp.9668.

7. The paleogeographic setting and biostratigraphy of the South-East part of Georgia at the boundary of the Cretaceous/Paleogene. Mikadze Kh., **Gvartadze T.**, Chkhaidze Z.//10th International Symposium on the Cretaceous, Wien, Austria, 21-26 August, 2017, pp. 93.
8. Results of micropaleontological study of the Upper Cretaceous deposits of the Aragvi river basin (Georgia). **Gvartadze T.**, Mikadze Kh., Chkhaidze Z.// LXIII Session of the Paleontological Society. Integrative paleontology: development prospects for geological purposes. St. Petersburg, Russia, 03-07 April 2017, pp. 48-51.
9. Late Triassic Calcareous Nannoplankton from Georgia and New Age of Moshevani Suite (Caucasus). Koiava K., Mosar J., **Gvartadze T.**, Kvaliashvili L., Mauville J.//The 13th Swiss Geoscience Meeting, Basel, Switzerland, 20-21 November, 2015, pp. 185-186.
10. Complex of nannoplankton and planktonic foraminifers as an indicator of Paleobasins history of the Mestia-Tianeti structural-facial zone. **Gvartadze T.**, Mikadze Kh., Chkhaidze Z.// LXI Session of the Paleontological Society, contemporary problems of paleontology. St. Petersburg, Russia, 13-17 April 2015, pp.25-27.
11. First Record on Lower Jurassic-Aalenian Calcareous Nannofossils of Georgia. Koiava K., **Gvartadze T.**, Glonti (Bacho) V., Kvaliashvili L. //The 5th International Scientific Conference of Young Scientists and Students, "Fundamental and Applied Geological Science: Achievements, Prospects, Problems and Ways of Their Solutions", Baku, Azerbaijan, 14-15 November, 2013, pp. 171-172.
12. Some data on the Late Cretaceous paleogeography in the Georgia (on the basis planktonic foraminifera and nannoplankton). Mikadze Kh., **Gvartadze T.**, Chkhaidze Z.//The 9th Intern. Symposium on the Cretaceous System. Ankara, Turkey, 1-5 September, 2013, pp. 65.
13. Faunistic characteristic of the Upper Cretaceous flysch deposits of the Aragvi and Ksani river basins (Georgia). **Gvartadze T.**, Mikadze Kh., Chkhaidze Z.// LVIII Session of the Paleontological Society, Paleontology and stratigraphic boundaries. St. Petersburg, Russia, 2-6 April, 2012. Pp. 37-38.
14. Chronology and possible model of formation of the Madneuli copper-gold deposit, SE Georgia. Migineishvili R., **Gvartadze T.** //The abstract volume of International Scientific Conference "Problems of Geology of the Caucasus", Tbilisi, Georgia, 25-27 November, 2010, pp. 71-73.
15. New data on the stratigraphy of Cenozoic sediments located on the left flange of the Arkalariver gorge (Georgia). **Gvartadze T.**, Zakaraia D.//XIX Congress of the Carpathian-Balkan Geological Association, Thessaloniki, Greece, 23-26 September, 2010, pp. 1.
16. Biostratigraphy and palaeoenvironment of the Upper Cretaceous flysch sediments of the Mestia-Tianeti zone of the Greater Caucasus fold system. **Gvartadze T.**, Mikadze Kh., Chkhaidze Z.//XIX Congress of the Carpathian-Balkan Geological Association, Thessaloniki, Greece, 23-26 September, 2010, pp. 123-124.
17. Analysis of Late Paleocene-Early Eocene Microplankton from the Kheu River Section, Central Caucasus. Radionova E.P., Aleksandrova G.N., **Gvartadze T.T.**, Stupin S.I., Khokhlova I.E. //International Conference "Climatic and Biotic Events of the Paleogene" – CBEP 2009. Wellington, New Zealand, 12-15 January, 2009, pp.110-115.
18. Biostratigraphy of the Upper Cretaceous sediments of the Ksani River gorges (Georgia) by microforaminifers and calcareous nannoplankton. **Gvartadze T.**, MikadzeKh., Chkhaidze Z.//7th Micropaleontological Workshop. Katarzyna, Poland, 28-30 September, 2009, pp. 27.

19. Abrupt changes in the development of nannoplankton in the Paleocene basins of Georgia. **Gavtadze T.T.**//Micropaleontology in Russia at the turn of the centuries. Materials of the XIII All-Russian micropaleontological meeting. Moscow, Russia, November 21-23, 2005, p. 140.
20. History of development of nannofossils in the Paleogene basin of Georgia. **Ghvtadze T.** //Scientific session dedicated to Academician P. Gamkrelidze's 100th anniversary. Tbilisi, Georgia, October 27-29, 2003.
21. Biostratigraphy of the Central Part of Achara-Trialeti Folded Zone by Nannoplankton. **Gavtadze T.** //Fourth International Turkish Geology Symposium, (ITGS), Adana, Turkey, 24-28 September, 2001, p. 272.
22. Biostratigraphy of Lower and Middle Eocene sediments of the western part of the Georgian Block according to nannoplankton. **Ghvtadze T.**// Session dedicated to the 70th anniversary of the Geological Institute. Tbilisi, Georgia, 1995, pp. 104-105.
23. Variation of nannoplankton at the Upper Cretaceous-Paleogene boundary. **Ghvtadze T.**, Kilasonia E. //Session dedicated to the 70th anniversary of the Geological Institute. Tbilisi, Georgia, 1995, pp. 62-63.
24. Boundary between the Cretaceous and Paleocene in the Tetrtskaro, Surami and Arkala sections. Adamia Sh., Salukvadze N., Nazarov M., Gongadze G., **Gavtadze T.**, Kilasonia E., Asanidze B. //International Symposium. Tbilisi, Georgia, 1991, pp. 57-63.
25. On Geological Events at the Cretaceous-Tertiary Boundary in Georgia. Salukvadze N., Gongadze G., **Gavtadze T.**//International Symposium. Tbilisi, Georgia, 1991, pp. 51-57.
26. Globigerina turkmenica zone status and the Middle Eocene-Upper Eocene boundary. Mrevlishvili N., **Ghvtadze T.** //2nd republican conference of Faculty of Geology of Tbilisi State University. Tbilisi, Georgia, November 22-23, 1990, p. 99-102.
27. Zonal stratigraphy of boundary layers of the Eocene and Oligocene of Georgia by nannoplankton. **Gavtadze T.T.**, Salukvadze N.Sh.// X All-Union Micropaleontological Meeting. Leningrad. Russia, 1986, pp. 63-64.
28. Some issues of biostratigraphy of the Middle and Upper Eocene formations of Georgia. Salukvadze N.Sh., Tsagareli E.A., **Gavtadze T.T.**//Biostratigraphy of Oil-and-Gas regions of the Soviet Union. Matererials of V Interdepartmental Stratigraphic Conference. Baku, Azerbaijan, 1986, pp. 133-135.
29. 29. Nannoplankton complexes of Upper Eocene deposits of Abkhazia. **Ghvtadze T.** //Conference dedicated to the 60th anniversary of the USSR and the 40th anniversary of Geological Institute. Tbilisi, Georgia, 1981, pp. 242-243.
30. Nanoplankton complexes of the Upper Eocene of Abkhazia. **Gavtadze T.T.**//Thesis of reports of Conf. of Young Geologists. Tbilisi, Georgia, 1981, pp. 7-8.

Scientific grants

- 2008-2010 - "Detailed stratigraphic study of Meso-Cenozoic sediments of Eastern Georgia using micropaleontological methods". Shota Rustaveli National Science Foundation of Georgia; Grant project GNSF/07/5-2000. Key performer, manager.
- 2004-2005 – Stratigraphy of Meso-Cenozoic Sediments of Georgia and their Correlation with Synchronous Sediments of Adjacent Regions. Grant of the Georgian Academy of Sciences. Key performer.

Additional information

1986-1991 – Member of the Paleontological Society ("Paleontological Society at the RAS");

1989-1991 – Member of International Nannoplankton Association - INA;

2006-2009 – Member of the Scientific Council of the Alexandre Janelidze Institute of Geology.