

CURRICULUM VITAE

Sergey OLEYNIK, PhD
Purdue University Stable Isotope
Facility manager
Dept. Earth and Atmospheric Sciences
Purdue University,
550 Stadium Mall Dr.
West Lafayette, IN 47907

Phone: office 765-494-0289

lab 765-494-3274

Fax: 765-496-1210

e-mail: soleynik@purdue.edu, (emails forwarded from oley2000@mail.ru)

- Professional Preparation: B.A.: 1980-Moscow Chemical Technological University
PhD.: 1999 Moscow State University (Soil Science)
- Field of Specialization: Biogeochemistry of carbon and sulfur stable isotopes in soils, palaeoenvironmental reconstruction, diagenesis of soil organic matter, origin and migration of salts in natural and irrigated landscapes, gas and water regimes of soils in man-made close systems, other.
- Appointments: 2006 - Present – Purdue University Stable Isotope Facility manager
2002-2006 Post Doctoral Researcher, University of Illinois, Chicago
1980 – 2002: Senior Scientist at Institute of Physical-Chemical and Biological Problems of Soil Science of Russian Academy of Science.
- Field Experience: 1985-1995 – annual soil-geochemical expeditions to North Caucasus region (head and member of expeditions).
1983-1984 - Archaeological expeditions to Kazakhstan,
1980 - Soil expedition to Rostov region (south of Russia),

LIST OF JOURNAL PUBLICATIONS

1. O.S. Khokhlova, A.A. Khokhlov, S.A. Oleynik, T.A. Gabuev and V. Yu. Malashev, 2007. Paleosols from the groups of burial mounds provide paleoclimatic records of centennial to intercentennial time scale: A case study from the Early Alan cemeteries in the Northern Caucasus (Russia). *Catena*, 71, 477–486.
2. Ya. G. Ryskov, S. A. Oleinik, E. A. Ryskova, and E. G. Morgun, 2007. Isotopic Composition of Sulfur from Sulfates in Loess Sediments of the North Caucasus and Adjacent Regions as an Indicator of the Genesis of Salts. *Eurasian Soil Science**, Vol. 40, No. 4, p. 380-389.
3. S. Ya. Trofimov, O. S. Yakimenko, S. N. Sedov, E. P. Zazovskaya, E. I. Dorofeeva, S. A. Oleinik, E. I. Gorshkova, and V. V. Demin, 2004. Composition and Properties of Organic Matter in the Soils of Ancient Slavic Settlements in the Forest Zone. *Eurasian Soil Science**, Vol. 37, No. 9, p. 927-936.
4. O. S. Khokhlova, A. M. Kuznetsova, A. A. Khokhlov, S. A. Oleinik, and S. N. Sedov, 2004. Genesis of Soft and Hard Calcareous Nodules by the Example of Chernozem Mesocatena in the Southern Cis-Urals. *Eurasian Soil Science**, Vol. 37, No. 7, p. 669-676.
5. Khokhlova O.S., Oleynik S.A., 2004. Landscape and geochemical conditions for genesis of different kinds of carbonate accumulations in Chernozems of the Southern Pre-Ural, Russia // *Physics, Chemistry and Biogeochemistry in Soil and Plant Studies. Multi-authors work. Inst. of Agrophysics PAS, Lublin, P.75-77*
6. S. A. Oleinik, Ya. G. Ryskov, and E. G. Morgun, 2003. Fractionation of Stable Sulfur Isotopes in Hydromorphic Saline Soils and Its Role as an Indicator of Reducing Processes. *Geochemistry International**, V. 41, No. 12, p. 1207-1213.
7. Ya. G. Ryskov, T. A. Sokolova, S. A. Oleinik, and E. G. Morgun, 2002. Regularities of the Fractionation of Stable Sulfur Isotopes in Steppe Soils. *Eurasian Soil Science*, Vol. 35, No. 3, p. 263-261.
8. S. Kerzhentsev, M. P. Volokitin, N. N. Zelenskaya, S. A. Oleinik, A. O. Alekseev, T. V. Alekseeva, A. M. Zyakun, V. N. Zakharchenko, and V. D. Romanov, 2002. The Principles of Regulation of Ecosystem Functions. *Eurasian Soil Science*, Vol. 35, No. 1, p. 25-33.
9. O.S.Khokhlova, I.S.Kovalevskaya, S.A.Oleynik, 2001. Records of Climatic Changes in the Carbonate Profiles of Russian Chernozems. *Catena*, 43, p. 203-215.
10. Ya. G. Ryskov, Ts. Kh. Tsybzhitov, Ts. Ts. Tsybikdorzhiev, S. A. Oleinik, and E. A. Ryskova, 2001. Russia's Soil: Is It a CO₂ Source or Sink? *Geochemistry International*, V. 39, No. 6, p. 577-584.
11. Ya.G.Ryskov, V.A.Demkin, S.A.Oleynik, E.A.Ryskova, I.S.Kovalevskaya, 2000. Dynamics of the Isotope Composition of Humus and Pedogenic Carbonates as an Indicator of Soil-Forming Conditions in the Holocene. *Eurasian Soil Science*. Vol. 33, No.6, p. 605-612.

12. O.S.Khokhlova, S.A.Oleynik, I.S.Kovalevskaya, 2000. The Distribution between Diagenetic and Epigenetic Types of Carbonate Concentrations in the Buried Holocene Soils of the Chernozemic Zone. *Eurasian Soil Science*. Vol. 33, No.1, p. 23-31.
13. Ya.G.Ryskov, A.V.Borisov, S.A.Oleynik, E.A.Ryskova, V.A.Demkin, 1999. The relationship between lithogenic and pedogenic carbonate fluxes in steppe soils and regularities of their profile dynamics for the last four millennia. In. "Global climate change and pedogenic carbonate". Ed. by R. Lal, J.M.Kimble et. al. Lewis/CRC Publishers, Boca Raton, F1:121-133.
14. Ya.G.Ryskov, A.V.Borisov, E.A.Ryskova, S.A.Oleinik, V.A.Demkin, 1999. On the Relationship between Pedogenic and Lithogenic Carbonates and Their Dynamics in the Profile of Steppe Soils during the Last 4000 Years. *Eurasian Soil Science*. Vol. 32, No.3, p. 263-270.
15. V.A.Demkin, M.I.Dergacheva, A.V.Borisov, Ya.G.Ryskov, S.A.Oleinik, 1998. Soil Evolution and Climate Change in the Semidesert Zone of Eastern Europe during the Late Holocene. *Eurasian Soil Science*. Vol. 31, No.2, p. 133-143.
16. Ya.G.Ryskov, V.A.Demkin, S.V.Mergel, S.A.Oleinik, 1996. Formation of Carbonate Profile in Dark Chestnut Soil according to Data on Carbon and Oxygen Isotopic Composition. *Eurasian Soil Science*. Vol. 29, No.9, p. 992-998.
17. Ya.G.Ryskov, S.A.Oleinik, T.V.Alexeeva, A.O.Alexeev, I.S.Kovalevskaya, E.G.Morgun, E.M.Samoylova, 1993. Geochemical Situation in Soils of Conjugated Landscapes in Central Precaucasus. *Litologiya i poleznie iskopaemie*. No.2, p.55-65. (In Russian).
18. Ya.G.Ryskov, S.A.Oleinik, E.G.Morgun, E.M.Samoylova, 1989. Sulfur Isotope Composition as Indicator of Salt Origin in Landscapes of Stavropol Elevation. *Pochvovedenie*, No.4, p.36-45. (In Russian).
19. V.A.Demkin, Ya.G.Ryskov, A.O.Alexeev, S.A.Oleinik, S.V.Gubin, A.V.Lukashov, V.A.Kruger, 1989. Palaeopedological Study of Archaeological Monuments in Steppe Zone. *Izvestiya Akademii Nauk (News of Russian Academy of Science)*, seriya geograficheskaya, No.6, p.40-51. (In Russian).

* "Eurasian Soil Science" is the English version of Russian national journal of soil scientists "Pochvovedenie". "Geochemistry International" is the English version of Russian national journal of geochemists "Geokhimiya"