

## *Curriculum Vitae*

**VLADIMIR EVGENI ROMANOVSKY**

**PLACE OF BIRTH :** Barnaul, Russia

**CITIZENSHIP :** USA

**EDUCATION:** M.S. - 1975; Geophysics (Honor Diploma), Moscow State University  
M.S. - 1985; Mathematics (Honor Diploma), Moscow State University  
Ph.D. - 1982; Geology, Moscow State University  
Ph.D. - 1996; Geophysics, University of Alaska, Fairbanks

### **POSITIONS HELD AND EXPERIENCE:**

Associate Professor of Geophysics, University of Alaska Fairbanks, Alaska, 1999-present  
Research Associate Professor, Geophysical Institute, University of Alaska Fairbanks, Alaska, 1998-1999  
Research Associate, Geophysical Institute, University of Alaska Fairbanks, Alaska, 1996-1998  
Research Assistant, Geophysical Institute, University of Alaska Fairbanks, Alaska, 1992-1996  
Associate Professor of Geophysics and Geocryology, Moscow State University, 1985-1992  
Science Researcher, Department of Geocryology, Moscow State University, Russia, 1980-1985  
Geophysicist, Faculty of Geology, Moscow State University, Russia, 1975-1980

### **EXPEDITION ACTIVITY:**

- 2004 Banks and Prince Patrick Islands, Canadian Arctic Archipelago. Ground temperature and soil moisture measurements
- 2003 Banks and Prince Patrick Islands, Canadian Arctic Archipelago. Ground temperature and soil moisture measurements
- 2001 North-east Yakutia, Cherskii. Ground temperature measurements in boreholes
- 1993-2004 Alaska. Ground temperature measurements in boreholes and active layer thickness measurements along the Alaska Pipeline, on the North Slope, Seward Peninsula and in the Fairbanks area
- 1990-1992 North of Western Siberia. Nadym. Medvezhye gas field. Creation of permafrost engineering monitoring system (ground temperatures and heat fluxes) on gas field construction sites
- 1989 Northern Yakutia. Research on permafrost conditions at gold and diamond fields using geophysical methods
- 1988 North of European part of Russia. Vozey oil field. Research on permafrost conditions and ground temperature measurements within the oil fields
- 1985-1987 Yamal-peninsula. Research on the distribution and thickness of permafrost and ground ice within oil and gas fields using geophysical methods
- 1975-1984 Southeastern Siberia. Baikal-Amur Railway region. Geophysical and engineering research on the permafrost-hydrogeological and engineering conditions along the railway alignment
- 1974 Black Sea: marine gravimetry and magnetometry on the research vessel "Moscow University".
- 1973 Central Kazakhstan, Bek-Pak-Dala Desert. Geophysical research for geological survey

### **COMMITTEES, BOARDS, RECOGNITION:**

Academic Secretary of the Committee: "The Geophysical Methods of Research in the Field of Engineering Geology, Hydrogeology, and Geocryology", Geophysical Research Board of the Academy of Sciences of the USSR (Russia), 1986-1992  
Member of the RAISE (Russian-American Initiative on Shelf-Land Environments in the Arctic) International Steering Committee, 1996-present

Member of the IPA Working Groups “Inland and Offshore Permafrost” and “Global Change and Permafrost,” 1998-present  
Director of the RAISE (Russian-American Initiative on Shelf-Land Environments in the Arctic) Science Management Office, OPP NSF, 1999-2002  
Member of the International Heat Flow Commission (IHFC), 1999-present  
Member of the “Task Force on Climate Change, Permafrost and Civil Infrastructure” of the US Arctic Research Commission, 2001-2004  
Member of the Arctic Climate System Study (ACSYS)/Climate and Cryosphere (CliC) Numerical Experimentation Group (NEG) of the World Climate Research Programme (WCRP), 2001- present  
Member of the NASA NEESPI Science Plane Writing Working Group, 2002- present  
Chair of the “Modeling of Permafrost” Subgroup of the International Permafrost Association (IPA), 2003-present  
President-Elect of the US Permafrost Association (USPA), 2003-present  
Member of the National Academies “Designing an Arctic Observing Network” Committee of the Polar Research Board, 2004 - present.

**PROFESSIONAL ORGANIZATION:** American Geophysical Union  
United States Permafrost Association

#### **CURRENT RESEARCH INTERESTS:**

I am interested in the scientific and practical aspects of environmental and engineering problems involving ice and permafrost. These include problems in the areas of soil physics, thermodynamics, heat and mass flow, and growth and decay processes that are associated with permafrost, subsea permafrost, seasonally frozen ground, and seasonal snow cover. I am also interested in the improvement of mathematical methods (analytical and numerical modeling) in geology and geophysics.

#### **SELECTED PUBLICATIONS:**

##### Books:

1. The Field Methods in Geocryological Investigations, Editor L. S. Garagula, MGU Press, Moscow, 1986, 206 p. (in Russian).
2. The Usage of Mathematical Methods in Geocryology, Editor L. S. Garagula, MGU Press, Moscow, 231 p., 1987 (in Russian).
3. Application of Mathematical Methods and Computers to the Geocryological Processes Investigation, Editor L. S. Garagula, MGU, Moscow, 197 p., 1990 (in Russian).

##### Peer-reviewed Papers and Abstracts (\*):

1. Afanasenko, V. E., Zaitsev, V. N., **Romanovsky**, V. E., and N. N. Romanovsky, On the Relationship between the Structure and Characteristics of the Bedrock Masses and Their Permafrost History, in: Proceedings of the Third International Permafrost Conference, 1978.
2. Lisitsyna, O. M. and V. E. **Romanovsky**, Character of the Permafrost Distribution and Thickness within the Western Part of the Amur Region, in: *Merzlotnie Issledovania*, vol. 18, MGU, 1979 (in Russian).

3. **Romanovsky, V. E.** and V. E. Afanasenko, New Data About Permafrost-Hydrogeological Structure of the Dzhagdi-Socktahan Range, in: *Geocryological Conditions of the BAM-Region*, Yakutsk, 1980 (in Russian).
4. **Romanovsky, V.E.** and A. S. Boikov, The Application of the Electrical Conductivity Method to the Solving of the Permafrost-Hydrogeology Problems in the BAM-Region, *Merzlotnie Issledovania*, vol. 19, MGU, 1980 (in Russian).
5. **Romanovsky, V.E.**, The Application of Electrical Conductivity Method to Investigate the Weathering Zone Thickness Over the Central Part of BAM - Territory, *Vestnik Moskovskogo Universiteta*, Ser. 4, Geologia, 6: 72-76, 1981 (in Russian with English translation).
6. Piotrovskaja, T. Ju. and V.E. **Romanovsky**, The Study of Weathering Zone Under the Regional Investigations, *Ingenernaja Geologia*, 6, 1982 (in Russian).
7. **Romanovsky, V.E.** and N. N. Romanovskii, The Improvement of Electrical Conductivity Method Efficiency for the Purposes of the Small Scale Engineering and Geocryological-Hydrogeological Surveys, *Ingenernaja Geologia*, 4:116-125, 1984 (in Russian).
8. Maximova, L. N. and **Romanovsky, V.E.**, Climate Change and Some Special Features of the Holocene Permafrost Distribution on the USSR Territory, *Geokriologicheskie Issledovania*, vol. 22: 54-68, MGU, 1986 (in Russian).
9. **Romanovsky, V.E.** and N. N. Romanovskii, Special Features of the Cryohydrological Massif With Shallow Discontinuous Permafrost, *Geokriologicheskie Issledovania*, vol. 23: 109-117, MGU, 1987 (in Russian).
10. **Romanovsky, V.E.**, The approximate calculation of the insulation effect of the snow cover, *Geokriologicheskie Issledovania*, MGU, vol. 23: 183-188, 1987 (in Russian).
11. Maximova, L. N. and **Romanovsky, V.E.**, A hypothesis of the Holocene permafrost evolution, *Proceedings of the Fifth International Conference on Permafrost*, Norwegian Inst. Tech., Trondheim, Norway, pp. 102-106, 1988.
12. **Romanovsky, V.E.**, A method for calculation of the thermal offset within the stratiform active layer, in: *Geokriologicheskie Issledovanija*, MSU Press, 24, 237-243, 1989 (in Russian).
13. Khrutsky, S. F. and V. E. **Romanovsky**, Permafrost Vertical Structure within the Enisei-Khatanga Depression, in: E. D. Ershov, ed., *Geocryology of the USSR, Middle Siberia*, pp. 160-164, 1991 (in Russian).
14. Maximova, L. N., **Romanovsky, V. E.** and L. I. Rosenberg, The Stages of the Permafrost Evolution, in: E. D. Ershov, ed., *Geocryology of the USSR, Mountain Permafrost of the South of the USSR*, pp. 190-195, 1991 (in Russian).
15. **Romanovsky, V. E.**, Maximova, L. N. and N. V. Seregina, Computer simulation of permafrost dynamics during the late Pleistocene through Holocene, *Vestnik MGU*, Ser. 4, *Geologija*, 2: 97-104, 1991 (in Russian with English translation).
16. **Romanovsky, V.E.**, L.N. Maximova, and N.V. Seregina, Paleotemperature reconstruction for freeze-thaw processes during the Late Pleistocene through the Holocene, *In: Proceedings of the International*

*Conference on the Role of Polar Regions in Global Change*, Geophysical Institute, University of Alaska Fairbanks, 2, 537-542, 1992.

17. **Romanovsky**, V.E., L.S. Garagulya, and N.V. Seregina, Freezing and thawing of soils under the influence of 300- and 90-year periods of temperature fluctuation, *In: Proceedings of the International Conference on the Role of Polar Regions in Global Change*, Geophysical Institute, University of Alaska Fairbanks, 2, 543-548, 1992.
18. Osterkamp, T.E., T. Zhang, and V.E. **Romanovsky**, Evidence for a cyclic variation of permafrost temperatures in northern Alaska, *Permafrost and Periglacial Processes*, 5, 137-144, 1994.
19. \***Romanovsky**, V. E. and Osterkamp, T. E., Temporal and spatial behavior of the active layer in the Northern Alaska: 1986-1993. *EOS*, Transactions, American Geophysical Union, 75(44), p. 86, 1994.
20. Garagulya, L. S., **Romanovsky**, V. E. and Seregina, N. V., Modeling temperature fields during nonhomogeneous rock freezing and thawing. In *Russian Geocryological Research*, Russian Academy of Science, Moscow, vol. 1, pp. 34-42, 1995.
21. **Romanovsky**, V. E. and Osterkamp, T. E., Interannual variations of the thermal regime of the active layer and near-surface permafrost in Northern Alaska. *Permafrost and Periglacial Processes*, 6(4), 313-335, 1995.
22. \***Romanovsky**, V. E. and Osterkamp, T. E., Modeling of the permafrost temperature dynamics and active layer thawing and freezing at Prudhoe Bay, Alaska. *EOS*, Transactions, American Geophysical Union, 76(46), 237-238, 1995.
23. **Romanovsky**, V. E. and Osterkamp, T. E., Gas hydrate stability zone dynamics and global climate change, *Global Glimpses*, Center for Global Change and Arctic System Research, University of Alaska Fairbanks, Vol. 4, No. 2, pp. 4-5, 1996.
24. Osterkamp, T.E. and V.E. **Romanovsky**, Characteristics of changing permafrost temperatures in the Alaskan Arctic, *Arctic and Alpine Res.* 28(3), 267-273, 1996.
25. \***Romanovsky**, V.E. and T.E. Osterkamp, Numerical modeling of active layer thicknesses and permafrost temperature dynamics in Barrow, Alaska: 1949-1996, *EOS*, Trans. AGU, 77(46) F188, 1996.
26. \*Osterkamp, T.E. and V.E. **Romanovsky**, Impacts of thawing permafrost as a result of climatic warming, *EOS*, Trans. AGU, 77(46), F188, 1996.
27. Osterkamp, T. E., D. C. Esch, and V. E. **Romanovsky**, Infrastructure: Effects of climatic warming on planning, construction and maintenance, in: *Implications of Global Change in Alaska and the Bering Sea Region*, Proc. of the *BESIS Workshop*, June, 1997, pp. 115-127.
28. **Romanovsky**, V.E., and T.E. Osterkamp, Thawing of the active layer on the coastal plain of the Alaskan Arctic, *Permafrost and Periglacial Processes*, 8(1), 1-22, 1997.
29. Osterkamp, T.E., and V.E. **Romanovsky**, Freezing of the active layer on the Coastal Plain of the Alaskan Arctic, *Permafrost and Periglacial Processes*, 8(1), 23-44, 1997.

30. **Romanovsky**, V.E., T.E. Osterkamp, and N. Duxbury, An evaluation of three numerical models used in simulations of the active layer and permafrost temperature regimes, *Cold Regions Science and Technology*, Vol. 26, No. 3, pp. 195-203, 1997.
31. Osterkamp, T. E., and V. E. **Romanovsky**, A study of the effects of global warming on agriculture and forestry in North America, Asahi Beer Co. Scientific Foundation, *Report of Activities*, Vol. 11, pp. 23-30, 1997 (in Japanese with an English abstract).
32. \*Osterkamp, T. E., V. E. **Romanovsky**, T. Zhang, V. Gruol, T. Matava, and G. C. Baker, Temperature trends in Alaskan permafrost, *EOS*, Trans. AGU, 78(46), F270, 1997.
33. \***Romanovsky**, V. E., and T. E. Osterkamp, Numerical modeling of active layer and discontinuous permafrost temperature dynamics, Alaska: 1950-1997, *EOS*, Trans. AGU, 78(46), F270, 1997.
34. Osterkamp, T. E., and V. E. **Romanovsky**, Comments on the paper by Smith and Riseborough [7(4), 301-309, 1996], *Permafrost and Periglacial Processes*, 9(1), 87-89, 1998.
35. \***Romanovsky**, V. E., Thermal Waves in a Stratified Semi-Infinite Medium, *EOS*, Trans. AGU, 79(45), F839, 1998.
36. \*Osterkamp, T. E., **Romanovsky**, V. E., Zhang, T., Gruol, V., Peterson, J. K., Matava, T., and Baker G. C., A History of Continuous Permafrost Conditions in Northern Alaska, *EOS*, Trans. AGU, 79(45), F833, 1998.
37. Osterkamp, T. E., and V. E. **Romanovsky**, Evidence for warming and thawing of discontinuous permafrost in Alaska, *Permafrost and Periglacial Processes*, 10(1), 17-37, 1999.
38. Shender, N. I., **Romanovsky**, V. E., and A. S. Tetelbaum, A forecast of the natural variability of climate in Yakutsk and Fairbanks (in Russian), *Science and Education*, 2, 24-29, 1999.
39. \***Romanovsky**, V. E. and T. E. Osterkamp. Unfrozen Water in the Active Layer and Permafrost and Its Effects on Physical and Biological Processes, *EOS*, Trans. AGU, 80(46), F33, 1999.
40. Serreze, M. C., Walsh, J. E., Chapin, F. S. III, Osterkamp, T. E., Dyurgerov, M., **Romanovsky**, V. E., Oechel, W. C., Morison, J., Zhang, T., and Barry, R. G., Observational evidence of recent change in the northern high-latitude environment, *Climatic Change*, **46**: 159-207, 2000.
41. Paetzold, R. F., Hinkel, K. M., Nelson, F. E., Osterkamp, T. E., Ping, C. L., and V. E. **Romanovsky**, Temperature and Thermal Properties of Alaskan Soils, in *Advances in Soil Science: Global climate change and cold regions ecosystems/* edited by R. Lal, J. M. Kimble, B. A. Stewart, Lewis Publishers, pp. 223-245, 2000.
42. **Romanovsky**, V. E., and T. E. Osterkamp, Effects of unfrozen water on heat and mass transport processes in the active layer and permafrost, *Permafrost and Periglacial Processes*, 11, 219-239, 2000.
43. Burgess, M. M., Smith, S. L., Brown, J., **Romanovsky** V., and K. Hinkel, Global Terrestrial Network For Permafrost (GTNet-P): permafrost monitoring contributing to global climate observations, *Geological Survey of Canada, Current Research 2000 E-14* , 8 p., 2000 (online; <http://www.nrcan.gc.ca/gsc/bookstore>).
44. Pavlov, A. and V. **Romanovsky**, International Arctic Research Center: Establishment, Scientific Directions, Current Activities (in Russian), *Earth Cryosphere*, IV, 4, 120-121, 2000.

45. \*Yoshikawa, K., Bolton, W., Hinzman, L., **Romanovsky**, V., Fukuda M. and T. Osterkamp, Impacts of Wildfire on the Permafrost in the Boreal Forests of Interior Alaska, *EOS*, Trans. AGU, 81(48), F239, 2000.
46. \***Romanovsky**, V. E., Osterkamp, T. E., Sazonova, T. S., Shender, N. I., and V. T. Balobaev, Past and Future Changes in Permafrost Temperatures Along the East Siberian Transect and an Alaskan Transect, Trans. AGU, 81(48), F223-F224, 2000.
47. \*Q. Zhuang, A. D. McGuire, J. Harden, K. P. O'Neill, J. Yarie, and V. E. **Romanovsky**, Modeling the Carbon Dynamics of a Fire Chronosequence in Interior Alaska, Trans. AGU, 81(48), F238, 2000.
48. Duxbury, N. S., Zotikov, I. A., Neelson, K. H., **Romanovsky**, V. E., and Carsey, F. D., A numerical model for the alternative origin of Lake Vostok and its exobiological implications for Mars, *Journal of Geophysical Research – Planets*, Vol. 106, NO. E1, 1453-1462, 2001.
49. **Romanovsky**, V. E., and Osterkamp, T. E., Permafrost: Changes and Impacts, in: R. Paepe and V. Melnikov (eds.), “Permafrost Response on Economic Development, Environmental Security and Natural Resources”, *Kluwer Academic Publishers*, 297-315, 2001.
50. Burges, M., Smith, S., Brown, J. and V. **Romanovsky**, The Global Terrestrial Network for Permafrost: Status Report to the IPA Executive Committee Meeting, Rome, March 25, 2001, 62 p.
51. **Romanovsky**, V. E., Osterkamp, T. E., Sazonova, T. S., Shender, N. I. and V. T. Balobaev, Permafrost Temperature Dynamics Along the East Siberian Transect and an Alaskan Transect, *Tohoku Geophysical Journal (Sci. Rep. Tohoku Univ., Ser. 5)*, Vol. 36, No. 2, 2001.
52. Hinzman, L., Yoshikawa, K., Fukuda M., **Romanovsky**, V., Petrone, K. and W. Bolton, Wildfire in the Subarctic Boreal Forests Ecosystem Impacts and Response to a Warming Climate (Extended Abstract), *Tohoku Geophysical Journal (Sci. Rep. Tohoku Univ., Ser. 5)*, Vol. 36, No. 2, pp. 230-232, 2001.
53. **Romanovsky**, V. E., Shender, N. I., Sazonova, T. S., Balobaev, V. T., Tipenko, G. S. and Rusakov, V. G., Permafrost Temperatures in Alaska and East Siberia: Past, Present and Future, in: *Proceedings of the Second Russian Conference on Geocryology (Permafrost Science)*, Moscow, June 6-8, pp. 301-314, 2001.
54. Vörösmarty, C.J., L. Hinzman, B.J. Peterson, D.L. Bromwich, L. Hamilton, J. Morison, V. **Romanovsky**, M. Sturm, R. Webb, *The Hydrologic Cycle and its Role in Arctic and Global Environmental Change: A Rationale and Strategy for Synthesis Study*. ARCUS, Fairbanks AK. 84 pp, 2001.
55. Duxbury, N. S., K. H. Neelson and V. E. **Romanovsky**, On the possibility of clathrate hydrates on the Moon, *Journal of Geophysical Research – Planets*, Vol. 106, NO. E11, 27,811-27,813, 2001.
56. \*Osterkamp, T. E., **Romanovsky**, V. E., Zhang, T. and Gruol, V., Permafrost in Alaska: Warming, Thawing and Impacts, *EOS*, Trans. AGU, 82 (47), Fall Meet. Suppl., Abstract, F546, 2001.
57. \***Romanovsky**, V. E. and K. Yoshikawa, The Role of Snow and Surface Organic Layer in Permafrost Stability in the Alaskan Northern Forest Ecosystems, *EOS*, Trans. AGU, 82 (47), Fall Meet. Suppl., Abstract, F168-F169, 2001.
58. \*Tipenko, G. S. and V. E. **Romanovsky**, Simulation of Soil Freezing and Thawing: Direct and Inverse Problems, *EOS*, Trans. AGU, 82 (47), Fall Meet. Suppl., Abstract, F551, 2001.

59. \*Nicol'sky, D. J., Tipenko, G. S. and V. E. **Romanovsky**, The Harmonic Analysis of Temperature Time Series, *EOS, Trans. AGU*, 82 (47), Fall Meet. Suppl., Abstract, F301, 2001.
60. \*Sazonova, T. S., **Romanovsky**, V. E., Sergueev, D. O. and Tipenko, G. S., The Modeling of Active Layer Thickness and Permafrost Temperature Regime (past, present and future) within East-Siberian Transect, using GIS, *EOS, Trans. AGU*, 82 (47), Fall Meet. Suppl., Abstract, F180, 2001.
61. \*Zhuang, Q., Clein, J. S., McGuire, A. D., Dargaville, R. J., Kicklighter, D. W., Melillo, J. M., Hobbie, J. E., Rastetter, E. B. and V. E. **Romanovsky**, Modeling the Effects of Soil Thermal Dynamics on the Seasonality of Carbon Fluxes across Northern Temperate and High Latitude Regions, *EOS, Trans. AGU*, 82 (47), Fall Meet. Suppl., Abstract, F181, 2001.
62. \*Lovick, J, Li, S and **Romanovsky**, V. E. Interpretation of RADARSAT SAR interferograms of Sagwon, Alaska, to establish temporal and physical permafrost parameters, *EOS, Trans. AGU*, 82 (47), Fall Meet. Suppl., Abstract, F551, 2001.
63. Brown, J., Hinkel, K. M., Hinzman, L. D., Kling, G. W., Nelson, F. E., **Romanovsky**, V. E., and N. I. Shiklomanov, Arctic Alaska and Seward Peninsula. In: Brown, J. et al., The Circumpolar Active Layer Monitoring (CALM) Program: Research Designs and Initial Results, *Polar Geography*, 24, No. 3, pp. 182-187, 2000.
64. Zhuang, Q., **Romanovsky**, V. E. and A. D. McGuire, Incorporation of a permafrost model into a large-scale ecosystem model: Evaluation of temporal and spatial scaling issues in simulating soil thermal dynamics, *Journal of Geophysical Research – Atmospheres*, Vol. 106, No. D24: 33,649-33670, 2001.
65. Gavrilov, A. V., Romanovskii, N. N., **Romanovsky**, V. E. and Hubberten H.-W., Offshore Permafrost Distribution and Thickness in the Eastern Region of the Russian Arctic, in I. P. Semiletov (ed.), *Changes in the Atmosphere–Land–Sea System in the Amerasian Arctic*, Dalnauka, Vladivostok, pp. 209-218, 2001.
66. **Romanovsky**, V. E. and Osterkamp, T. E., Permafrost Monitoring System in Alaska: Structure and Results (in Russian), *Earth Cryosphere*, Vol. V, No. 4, 59-68, 2001.
67. Vorosmarty, C., Hinzman, L., Peterson, B., Bromwich, D., Hamilton, L., Morison, J., **Romanovsky**, V., Sturm, M., and R. Webb, Arctic Hydrology and Its Role in Understanding Global Change: A Call for Synthesis, *EOS, AGU Transactions*, V. 83, No. 22, 241-249, 2002.
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69. V. **Romanovsky**, M. Burgess, S. Smith, K. Yoshikawa, and J. Brown, Permafrost Temperature Records: Indicators of Climate Change, *EOS, AGU Transactions*, Vol. 83, No. 50, 589-594, December 10, 2002.
70. **Romanovsky**, V. E., Book Review: A guide to frozen ground in transition, by Neil Davis, *Journal of Glaciology*, Vol. 48, No. 162, 478, 2002.
71. \*L D Hinzman, N Bettez, F S Chapin, M Dyrgerov, C Fastie, D B Griffith, A Hope, H P Huntington, A Jensen, D L Kane, G Kofinas, A Lynch, A Lloyd, A D McGuire, F E Nelson, T Osterkamp, W C Oechel, C Racine, V E **Romanovsky**, J Schimel, D Stow, M Sturm, C E Tweedie, G Vourlitis, M

Walker, P J Webber, J Welker, K Winker, K Yoshikawa, Evidence and Implications of Recent Climate Change in Terrestrial Regions of the Arctic, *Eos. Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract U72A-0010, 2002.

72. \*J Boike, V E **Romanovsky**, L D Hinzman, Climate, Surface Energy Balance and Ground Thermal Regime at Three Arctic Sites (Spitsbergen, Siberia, Alaska), *Eos. Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract H51A-0768, 2002.
73. \*Q Zhuang, J M Melillo, D A McGuire, R J Dargaville, D W Kicklighter, J S Clein, R B Myneni, J Dong, V E **Romanovsky**, J Harden, J E Hobbie, Effects of soil thermal dynamics on carbon cycling in extratropical terrestrial ecosystems of the Northern Hemisphere, *Eos. Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract B51C-12, 2002.
74. \*A Gavrilov, N Romanovskii, V **Romanovsky**, Ice Complex Islands and Bars With Frozen Sea Floor on the Eastern Siberia Shelf, *Eos. Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract PP61A-0288, 2002.
75. \*V E **Romanovsky**, K Yoshikawa, M C Brewer, J Brown, H Jin, Development of a New Permafrost Observatory at Barrow, Alaska, *Eos. Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract U72A-0014, 2002.
76. \*D A Walker, G J Jia, H E Epstein, N Shiklomanov, F Nelson, L D Hinzman, V E **Romanovsky**, Vegetation-Soil-Active Layer Relationships Along a Low-Arctic Bioclimate Gradient, Alaska, *Eos. Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract B72D-02, 2002.
77. \*D Sergueev, G Tipenko, N Romanovskii, V **Romanovsky**, M Kasymkaya, Impact of Mountain Topography and Altitudinal Zonation on Alpine Permafrost Evolution and Ground Water Hydrology, *Eos. Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract B11D-03, 2002.
78. \*T Sazonova, V **Romanovsky**, D O Sergueev, G Tipenko, The Comparison of East Siberian and Alaskan Transects in terms of Permafrost Dynamics (in the past, present and future) using Geographical Informational System, *Eos. Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract B11D-06, 2002.
79. \*V **Romanovsky**, Effect of Climate Change on Permafrost in Alaska: Short-Term (Decadal) Variability and Long-Term (Millennial) Changes, *Eos. Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract B11E-02 INVITED, 2002.
80. \*G E Yershova, D O Sergueev, S I Pokrovsky, V E **Romanovsky**, Temporal and spatial variability of microclimate and permafrost conditions in Fairbanks region, Alaska, *Eos. Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract B12A-0776, 2002.
81. \*S I Pokrovsky, G S Tipenko, T E Osterkamp, V E **Romanovsky**, Modeling of Permafrost and Gas Hydrate Stability Zone Dynamics within Alaskan Arctic Shelves and Continental Margins, *Eos. Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract B12A-0807, 2002.
82. \*Yoshikawa, K, **Romanovsky**, V, Tsapin, A, and J. Brown, Detecting a liquid and solid H<sub>2</sub>O layer by geophysical methods, *Eos. Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract P71A-0450, 2002.
83. Yoshikawa, K., Bolton, W. R., **Romanovsky**, V. E., Fukuda, M., and L. D. Hinzman, Impacts of Wildfire on the Permafrost in the Boreal Forests of Interior Alaska, *Journal of Geophysical Research*, 107, 8148, doi:10.1029/2001JD000438, 2002. [printed 108(D1), 2003]

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