

CURRICULUM VITAE
ALEXANDER Y. KARATAYEV

EDUCATION:

- Doctor of Science; Hydrobiology; Institute of Zoology; Belarusian Academy of Science, 1992
- Candidate of Science (Ph.D.); Hydrobiology; Institute of Zoology; Belarusian Academy of Science, 1983
- M.Sc., Biology; Belarusian State University; 1976

POSITIONS:

2007- Present	Professor, Director of the Great Lakes Center, Buffalo State College, Buffalo, NY
2011- Present	Adjunct Professor, Department of Geology, State University of New York at Buffalo
2006 – 2007	Professor, Biology Department, Stephen F. Austin State University, Nacogdoches, Texas
2001 – 2006	Associate Professor, Biology Department, Stephen F. Austin State University, Nacogdoches, Texas
2000 – 2001	Research Ecologist, University of the State of New York Museum Field Research Lab
1997 – 2000	Chair, General Ecology Department, Belarusian State University
1996 – 1997	Visiting Associate Professor at the University of Wisconsin-Madison, USA
1991 – 1997	Chief, Aquatic Ecology Department, Lakes Research Laboratory, Belarusian State University
1990 – 1991	Senior Scientist, Lakes Research Laboratory, Belarusian State University
1987 – 1990	Scientist, Lakes Research Laboratory, Belarusian State University
1979 – 1987	Junior Scientist, Lakes Research Laboratory, Belarusian State University
1977 – 1979	Assistant, Ecology Department, Belarusian State University

ACADEMIC HONORS AND AWARDS:

- 1976 – First Category Award, Republican Competition among undergraduate students from Belarusian Universities (for paper entitled “Typological evaluation of lakes on base of zooplankton data”)
- 1987 – Second Award, Republican Competition for the Best Scientific Paper (for paper entitled “Ecology of Macroinvertebrates of Cooling Reservoirs of Belarus”)
- 1987 – First Award, Belarusian State University Competition for the Best Scientific Paper (for paper entitled “Ecology of Macroinvertebrates of Cooling Reservoirs of Belarus”).
- 2005 – Stephen F. Austin State University Faculty Achievement Award in Research.

RESEARCH INTERESTS:

Biodiversity, conservation and management of freshwater ecosystems; ecology, biology, parasitology and spread of aquatic invasive species and their role in aquatic ecosystems; diversity, biology, and ecology of benthic communities; Diversity, distribution, and conservation of unionids.

GRANTS/CONTRACTS RECEIVED (PI/Co-PI):

- 2017-2022 Rudstam, L., L. E. Burlakova, A. Y. Karatayev, J. Watkins. Great Lakes Long-term Biological Monitoring Program. GLRI, U.S. EPA. \$5,999,903.
- 2016-2018 Karatayev, A. Y., and L. E. Burlakova. Lake Superior Benthos: Cooperative Science and Monitoring Initiative. U.S. EPA. \$150,000.
- 2017-2019 Burlakova, L. E., A. Y. Karatayev. DNA Barcode Reference Library: Mollusca, Annelida, and minor phyla. U.S. EPA. \$400,000.
- 2014-2017 Karatayev, A. Y., L. E. Burlakova. Lake Erie and Lake Michigan Benthos: Cooperative Science and Monitoring Initiative. U.S. EPA. \$500,000.
- 2014-2017 Karatayev, A. Y., L. E. Burlakova, and D. Gorsky. Investigating Lake Sturgeon habitat use, feeding ecology and benthic resource availability in the lower Niagara River. Ecological Greenway Fund. \$835,829.
- 2012-2017 Rudstam, L., A. Y. Karatayev, and L. E. Burlakova. Great Lakes Long-term Biological Monitoring Program. U.S. EPA. \$3,867,525.
- 2012-2013 Snyder, R. J., L. E. Burlakova, D. B. MacNeill, and A. Y. Karatayev. Enhanced Early Detection of Invasive Ponto-Caspian Fishes in the Great Lakes. U.S. EPA Great Lakes Restoration Initiative. \$99,756.

- 2012-2013 Burlakova, L. E., A.Y. Karatayev. Zebra/Quagga Mussel Viability Test. U.S. Fish and Wildlife Service, Pacific Region. \$24,962.
- 2010-2013 Zanatta, D., L. E. Burlakova, A. Y. Karatayev, R. Krebs, M. Hoggarth, F. de Szalay, J. Bossenbroek, E. Meyer, M. Walsh. Collaborators: M. Schlesinger, R. Haas, T. Crail, P. Badra, N. Welte, and L. Holst. Conservation of Native Freshwater Mussel Refuges in Great Lakes Coastal Zones. Great Lakes Fish and Wildlife Restoration Act, U. S. Fish and Wildlife Service. \$366,412.
- 2010-2013 Pennuto, C. M., A. Y. Karatayev, A. Pérez-Fuentetaja, L.E. Burlakova, D. Bade, G. Matisoff, J. Kramer, and C. Mayer. The Lake Erie Nearshore and Offshore Nutrient Study. U.S. EPA Great Lakes Restoration Initiative. \$615,813.
- 2011-2013 Burlakova, L. E., A.Y. Karatayev, M. E. May, and B. Lang. Survey of Texas hornshell populations in Texas, U.S. Fish and Wildlife Service, and Texas Parks and Wildlife Department, Traditional Section 6, Bilateral species conservation effort in New Mexico and Texas. \$143,000.
- 2011-2012 Burlakova, L. E., A. Y. Karatayev, M. E. May, M. D. Warriner, and B. Gottfried. Survey of threatened freshwater mussels (Bivalvia: Unionidae) in Texas. State Wildlife Grant Program, U.S. Fish and Wildlife Service, and Texas Parks and Wildlife Department. \$38,000.
- 2010-2011 Snyder, R. J., L. E. Burlakova, D. B. MacNeill, and A. Y. Karatayev. Evaluating Ponto-Caspian Fishes for Risk of Great Lakes Invasion. U.S. EPA Great Lakes Restoration Initiative. \$111,264.
- 2010-2011 Burlakova, L., A. Karatayev, and M. Goehle. Preliminary Risk Assessment of the Parasites of Aquatic Exotic Invertebrates in the Great Lakes Region. Great Lakes Research Consortium, NYGLPF Small Grants Program. \$9,473.
- 2011-2012 Karatayev, A. Y. and M. Clapsadl. Implementation of the Great Lakes Observing System. US Department of Commerce. \$55,000.
- 2009 Pennuto, C.M., A.Y. Karatayev, A. Pérez-Fuentetaja, L.E. Burlakova, G. Matisoff, J. Kramer, J. Conroy. The Nearshore and Offshore Lake Erie Nutrient Study. U.S. EPA Great Lakes National Program Office, Lake Erie Central and Eastern Basin Studies of Nearshore/Offshore Nutrient Fluxes and Interactions. \$150,000.
- 2008-2009 Burlakova, L. E. and A. Y. Karatayev. State-Wide Assessment of Unionid Diversity in Texas in 2009. State Wildlife Grants, U.S. Fish and Wildlife Service. Texas Parks and Wildlife Department. \$67,514.
- 2007-2008 Burlakova, L. E. and A. Y. Karatayev. State-Wide Assessment of Unionid Diversity in Texas. State Wildlife Grants, U.S. Fish and Wildlife Service. Texas Parks and Wildlife Department. \$69,375.
- 2007-2008 Karatayev, A. Y. and L. E. Burlakova. Effect of Natural Factors on Rate of Spread of Aquatic Invasive Species. Buffalo State College Research Council Incentive Funds. \$6,284.
- 2006-2007 Burlakova, L. E. and A. Y. Karatayev. East Texas Mussel Surveys. State Wildlife Grants, U.S. Fish and Wildlife Service. Texas Parks and Wildlife Department. \$32,056.
- 2006-2007 Karatayev, A. Y. and L. E. Burlakova. Status of Invasive Freshwater Mollusks in Texas. State Wildlife Grants, U.S. Fish and Wildlife Service. Texas Parks and Wildlife Department. \$17,795.
- 2006-2007 Burlakova, L. E. and A. Y. Karatayev. Distributional survey and habitat utilization of freshwater mussels. Texas Water Development Board. \$65,000.
- 2006-2007 Karatayev, A. Y. and L. E. Burlakova. Predicting the spread and ecosystem impact of exotic bivalve *Limnoperna fortunei* on North American freshwaters. SFA Faculty Research Grant. \$15,704.
- 2006-2008 Karatayev, A. Y. and L. E. Burlakova. Potential effects of Zebra mussels in the Madison lakes. Wisconsin DNR Aquatic Invasive Species Grants Program. \$49,037.
- 2004-2006 Burlakova, L. E. and A. Y. Karatayev. Assessing potential impacts of Channeled Applesnail to wetlands in the Galveston Bay watershed. U.S. Fish and Wildlife Service, Texas Commission on Environmental Quality, and USDA Cooperative Agriculture Pest Survey (CAPS) Program for 2005 surveys. \$117,544.
- 2004-2006 Burlakova, L. E. and A. Y. Karatayev. Freshwater mussel survey in Texas. Texas Parks and Wildlife Department. \$120,000.

- 2003-2005 Karatayev, A. Y. and L. E. Burlakova. The impact of invasive molluscs *Corbicula fluminea* and *Dreissena polymorpha* on benthic communities of aquatic ecosystems. SFA Faculty Research Grant. \$15,872.
- 2002 Karatayev, A. Y. Study of benthic communities of lakes Mendota and Monona. Stephen F. Austin State University Research Enhancement Minigrant. \$1,016.
- 2000-2001 Karatayev, A. Y. Determination of the factors affecting the biodiversity of zooplankton and zoobenthos of Belarusian waterbodies. Foundation of Fundamental study of the Republic of Belarus. \$5,000.
- 1997-1998 Karatayev, A. Y. Development of an Informational System "Limnoflora-Limnofauna of Belarus". Belarusian Committee of Ecology. \$13,000.
- 1996-1998 Karatayev, A. Y. European Research on *Dreissena* spp. (Zebra Mussels). U.S. National Geographic Society. \$12,000.
- 1996-1997 Karatayev, A. Y. Study of zebra mussel parasites and estimation of their influence on biodiversity and fish productivity of lakes. Committee for Science and Techniques of the Republic of Belarus. \$16,000.
- 1993-1995 Karatayev, A. Y. Determination of the scientific recovery principles of lakes under strong anthropogenic influence and assessment of the ecological damage caused to lakes by pollution. Belarusian Committee of Ecology. \$12,000.
- 1991-1992 Karatayev, A. Y. Calibration of remote sensing data using ground-based information to estimate anthropogenic eutrophication. Belarusian Committee of Ecology. \$4,000.
- 1991-1992 Karatayev, A. Y. Study of the current structure and ecosystem dynamics of the cooling water reservoir of the Berezovskaya Power Plant. Beloozersky Town Executive Committee. \$6,000.
- 1990-1995 Karatayev, A. Y. Study of the radioecological condition of lakes and swamp ecosystems to estimate the possibility of their exploitation. Belarusian State Committee "Chernobyl". \$14,000.

PROFESSIONAL PUBLICATIONS AND PRESENTATIONS:

Peer-review publications: 123. Publications in proceedings: 38. Presentations at scientific meetings and invited talks: 130.

REVIEWED PUBLICATIONS (123):

- Karatayev, A. Y., and G. M. Tishchikov. 1979. Effect of heated water of thermal power plant on the growth of *Dreissena polymorpha* Pallas. *Vestnik Belorusskogo Universiteta*. Ser. 2 (3): 39-43. (in Russian).
- Karatayev, A. Y. 1981. Larval stage of *Dreissena polymorpha* Pallas in the Lake Lukomlskoe, a cooling reservoir of thermal power plant. *Vestnik Belorusskogo Universiteta*. Ser. 2 (3): 54-59. (in Russian).
- Lyakhnovich, V. P., S. I. Gaurylau, A. Y. Karatayev, I. V. Karatayeva, and T. I. Nyakhayeva. 1982. Annual variations in macrozoobenthos of Lake Lukomlskoe. *Vesti Akademii Navuk BSSR. Seriya biyalagichnikh navuk*. 1: 91-93. (in Belarusian).
- Lyakhnovich, V. P., A. Y. Karatayev, and N. N. Antsipovich. 1983. Effect of heated water on the infestation of *Dreissena polymorpha* Pallas with larvae of *Phyllodistomum folium* Olfers in Lake Lukomskoe. *Biologiya Vnutrennikh Vod. Inform. Byull.* 58: 35-38. (in Russian).
- Lyakhnovich, V. P., A. Y. Karatayev, and P. A. Mitrakhovich. 1983. Effect of *Dreissena polymorpha* Pallas on ecosystem of a eutrophic lake. *Biologiya Vnutrennikh Vod. Inform. Byull.* 60: 25-28. (in Russian).
- Karatayev, A. Y., G. M. Tishchikov, and I. V. Karatayeva. 1983. *Dreissena polymorpha* Pallas as a specific community of benthic animals. *Biologiya Vnutrennikh Vod. Inform. Byull.* 61: 18-21. (in Russian).
- Karatayev, A. Y. 1985. Dynamics of the numbers and biomass of *Chironomus plumosus* L. in the thermal power plant's cooling water reservoir. *Biologiya Vnutrennikh Vod. Inform. Byull.* 68: 35-37. (in Russian).
- Karatayev, A. Y., and E. V. Myartseva. 1986. Invertebrates of submerged macrophytes in Lake Lukomskoe. *Vestnik Belorusskogo Universiteta*, Ser. 2 (1): 30-33 (in Russian).
- Mitrakhovich, P. A., and A. Y. Karatayev. 1986. The role of *Dreissena polymorpha* Pallas larvae in zooplankton of the cooling reservoir of the Lukoml thermal power plant. *Vestnik Belorusskogo Universiteta*, Ser. 2 (1): 38-41. (in Russian).
- Karatayev, A. Y. 1986. Dynamics of *Stictochironomus psammophilus* Tchern. in different temperature zones of the thermal power station's cooling water reservoir. *Biologiya Vnutrennikh Vod. Inform. Byull.* 71: 25-28. (in Russian).

- Mitrakhovich, P. A., A. Y. Karatayev, S. A. Boikova, and G. G. Vezhnovets. 1986. Zooplankton of pelagic zone and zoobenthos of profundal zone of the lake. In: V. Kontrimavicius, L. Sushchenia, and J. Virbickas (eds.) Heat Power Engineering and Environment. Volume 5. Base Status of Populations and Communities of Aquatic Animals in the Lake Drukshyai, pp. 39-41. Mokslas Press, Vilnius. (in Russian).
- Karatayev, A. Y., and I. V. Karatayeva. 1987. Effect of heating waters on macrozoobenthos of the littoral of the cooling water reservoir. *Vestnik Belorusskogo Universiteta*, Ser. 2 (1): 46-49. (in Russian).
- Karatayev, A. Y. 1987. The dynamics of the vertical macrozoobenthos distribution in different temperature zones of the littoral of the thermal power plant's cooling reservoir. *Biologiya Vnutrennikh Vod. Inform. Byull.* 74: 19-23. (in Russian).
- Mitrakhovich, P. A., A. Y. Karatayev, G. G. Vezhnovets, and V. M. Samoilenko. 1987. Plankton and benthos of Lake Lepelskoe. *Vestnik Belorusskogo Universiteta*, Ser. 2 (3): 36-41. (in Russian).
- Lyakhnovich, V. P., A. Y. Karatayev, P. A. Mitrakhovich, L. V. Guryanova, and G. G. Vezhnovets. 1988. Productivity and prospects for utilizing the ecosystem of the Lake Lukoml thermoelectric station cooling reservoir. *Soviet Journal of Ecology*, 18(5): 255-259. Translated into English from *Ecologiya*. No. 5, 1987, pp. 43-48.
- Karatayev, A. Y. 1988. Ecology of Macroinvertebrates of Cooling Reservoirs of Belarus. VINITI Press, Minsk, No. 875-B88 Dep. 178 pp. (in Russian).
- Karatayev, A. Y. 1988. Effect of heating on the invertebrates of the littoral of the thermal power plant's cooling reservoir of Lake Lukomskoe. *Biologiya Vnutrennikh Vod. Inform. Byull.* 80: 32-35. (in Russian).
- Karatayev, A. Y., V. P. Lyakhnovich, L. V. Guryanova, P. A. Mitrakhovich, G. G. Vezhnovets, and V. M. Samoilenko. 1990. Transformation of the ecosystem in an eutrophic lake as a result of its utilization as a thermal power plant's cooling reservoir. *Soviet Journal of Ecology*, 20(5): 275-280. Translated into English from *Ecologiya*, No. 5, 1989, pp. 18-24.
- Karatayev, A. Y., and V. P. Lyakhnovich. 1989. Changes in benthic communities and fish catching structures in the Lake Beloe after turning it into a thermal power plant's cooling reservoir. *Biologiya Vnutrennikh Vod. Inform. Byull.* 82: 54-57 (in Russian).
- Karatayev, A. Y. 1989. Changes in the average mass of aquatic animals as an indicator of the effect of heating on communities of macroinvertebrates in the cooling reservoirs. *Biologiya Vnutrennikh Vod. Inform. Byull.* 83: 25-28. (in Russian).
- Karatayev, A. Y. 1990. The Effect of Heating on Freshwater Ecosystems. VINITI Press, Minsk, No. 2440-90 Dep. 130 pp. (in Russian).
- Karatayev, A. Y., V. P. Lyakhnovich, and O. G. Reznichenko. 1990. Quantitative study of the density, biomass and abundance dynamic. In: G. L. Shkorbatov and Y. I. Starobogatov (eds.). *Methods for Study of Bivalvian Molluscs. Trudy Zoologicheskogo Instituta*, 219: 172-178. (in Russian).
- Karatayev, A. Y., and I. V. Karatayeva. 1992. Some patterns of the vertical distribution of macrozoobenthos in the littoral zone of thermal power plant's cooling reservoirs. *Hydrobiological Journal*, 27(5): 7-15. Translated into English from *Gidrobiologicheskii Zhurnal*, 27(2), 1991, pp. 19-26.
- Karatayev, A. Y., and L. E. Burlakova. 1992. Changes in tropic structure of macrozoobenthos of an eutrophic lake, after invasion of *Dreissena polymorpha*. *Biologiya Vnutrennikh Vod. Inform. Byull.*, 93: 67-71. (in Russian).
- Vezhnovets, G. G., S. A. Boikova, and A. Y. Karatayev. 1992. Changes in the hydrobiological regime of Lake Miorskoe under anthropogenic pollution. *Vestnik Belorusskogo Universiteta*. Ser. 2 (3): 61-66. (in Russian).
- Karatayev, A. Y., I. A. Rudakovskiy, and L. E. Burlakova. 1993. *Cs 137* - distribution and dynamic in the lakes with different levels of radioactive contamination. *Vestnik Belorusskogo Universiteta*, Ser. 2 (3): 57-61 (in Russian).
- Lyakhnovich, V. P., A. Y. Karatayev, S. M. Lyakhov, N. I. Andreev, S. I. Andreeva, S. A. Afanasiev, A. K. Dyga, V. P. Zakutskiy, V. I. Zolotareva, A. A. Lvova, M. Y. Nekrasova, V. F. Osadchikh, Y. V. Pligin, A. A. Protasov, and G. M. Tishchikov. 1994. Habitation conditions. In: Y. I. Starobogatov (ed.). *Freshwater Zebra Mussel *Dreissena polymorpha* (Pall.) (Bivalvia, Dreissenidae). Systematic, Ecology, Practical Meaning*, pp. 109-119. Nauka Press, Moscow. (in Russian).
- Karatayev, A. Y., and L. E. Burlakova. 1994. The rate of filtration. In: Y. I. Starobogatov (ed.). *Freshwater Zebra Mussel *Dreissena polymorpha* (Pall.) (Bivalvia, Dreissenidae). Systematic, Ecology, Practical Meaning*, pp. 132-137. Nauka Press, Moscow. (in Russian).

- Lvova, A. A., A. Y. Karatayev, and G. E. Makarova. 1994. Planktonic larva. In: Y. I. Starobogatov (ed.). Freshwater Zebra Mussel *Dreissena polymorpha* (Pall.) (Bivalvia, Dreissenidae). Systematic, Ecology, Practical Meaning, pp. 149-155. Nauka Press, Moscow. (in Russian).
- Lvova, A. A., G. E. Makarova, A. F. Alimov, A. Y. Karatayev, M. P. Miroshnichenko, V. P. Zakutskiy, and M. N. Nekrasova. 1994. Growth and production. In: Y. I. Starobogatov (ed.). Freshwater Zebra Mussel *Dreissena polymorpha* (Pall.) (Bivalvia, Dreissenidae). Systematic, Ecology, Practical Meaning, pp. 156-179. Nauka Press, Moscow. (in Russian).
- Karatayev, A. Y., V. P. Lyakhovich, S. A. Afanasiev, L. E. Burlakova, V. P. Zakutskiy, S. M. Lyakhov, M. P. Miroshnichenko, T. G. Moroz, M. Y. Nekrasova, S. P. Nechvalenko, I. A. Skalskaya, T. G. Kharchenko, and A. A. Protasov. 1994. The place of species in ecosystem. In: Y. I. Starobogatov (ed.). Freshwater Zebra Mussel *Dreissena polymorpha* (Pall.) (Bivalvia, Dreissenidae). Systematic, Ecology, Practical Meaning, pp. 180-195. Nauka Press, Moscow (in Russian).
- Zdun, V. I., V. K. Kiselene, A. Y. Karatayev, and G. E. Makarova. 1994. Parasites. In: Y. I. Starobogatov (ed.). Freshwater Zebra Mussel *Dreissena polymorpha* (Pall.) (Bivalvia, Dreissenidae). Systematic, Ecology, Practical Meaning, pp. 196-205. Nauka Press, Moscow (in Russian).
- Karatayev, A. Y., V. P. Mikheev, S. A. Afanasiev, M. Y. Kirpichenko, A. A. Protasov, L. V. Shevtsova, and T. G. Kharchenko. 1994. Practical uses and control on artificial structures. In: Y. I. Starobogatov (ed.). Freshwater Zebra Mussel *Dreissena polymorpha* (Pall.) (Bivalvia, Dreissenidae). Systematic, Ecology, Practical Meaning, pp. 206-221. Nauka Press, Moscow (in Russian).
- Karatayev, A. Y., V. M. Samoilenko, S. A. Boikova, G. G. Vezhnovets, L. E. Leshkovich, and V. I. Ilyashenko. 1994. Eutrophication of lakes in the Berezinsky Biosphere Reserve. *Vestnik Belorusskogo Universiteta*, Ser. 2 (1): 70-73 (in Russian).
- Karatayev, A. Y. 1995. The drift of bottom and periphyton macroinvertebrates in thermal power plant's cooling reservoir. *Vestsi Akademii Navuk Belarusi. Seriya biyalagichnikh navuk*, 3: 87-91. (in Belarusian).
- Karatayev, A. Y., and L. E. Burlakova. 1995. Present and further patterns in *Dreissena polymorpha* (Pallas) population development in the Narochanskaya lakes system. *Vestsi Akademii Navuk Belarusi. Seriya biyalagichnikh navuk*, 3: 95-99 (in Belarusian).
- Karatayev, A. Y., and L. E. Burlakova. 1995. The role of *Dreissena* in lake ecosystems. *Russian Journal of Ecology*, 26(3): 207-211. Translated into English from *Ecologiya*, 26(3), 1995, pp. 232-236.
- Molloy, D. P., A. Y. Karatayev, L. E. Burlakova, D. P. Kurandina, and F. Laruelle. 1997. Natural Enemies of Zebra Mussels: Predators, Parasites and Ecological Competitors. *Reviews in Fisheries Science*, 5(1): 27-97.
- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. 1997. The effect of *Dreissena polymorpha* Pallas invasion on aquatic communities in Eastern Europe. *Journal of Shellfish Research*, 16(1): 187-203.
- Burlakova, L. E., A. Y. Karatayev, and D. P. Molloy. 1998. Field and laboratory studies of zebra mussel (*Dreissena polymorpha*) infection by the ciliate *Conchophthirus acuminatus* in the Republic of Belarus. *Journal of Invertebrate Pathology*, 71(3): 251-257
- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. 1998. Physical factors that limit the distribution and abundance of *Dreissena polymorpha* (Pall.). *Journal of Shellfish Research*, 17(4): 1219-1235.
- Karatayev, A. Y., L. E. Burlakova, and D. P. Molloy. 2000. Seasonal dynamics of *Conchophthirus acuminatus* (Ciliophora, Conchophthiridae) infection in *Dreissena polymorpha* and *D. bugensis* (Bivalvia, Dreissenidae). *European Journal of Protistology*, 36: 397-404.
- Karatayev, A. Y., L. E. Burlakova, D. P. Molloy, and L. K. Volkova. 2000. Endosymbionts of *Dreissena polymorpha* (Pallas) in Belarus. *International Review of Hydrobiology*, 85(5-6): 543-559.
- Burlakova, L. E., A. Y. Karatayev, and D. K. Padilla. 2000. The impact of *Dreissena polymorpha* (Pallas) invasion on unionid bivalves. *International Review of Hydrobiology*, 85(5-6): 529-541.
- Kraft, C. E., P. J. Sullivan, A. Y. Karatayev, L. E. Burlakova, J. C. Nekola, L. E. Johnson, and D. K. Padilla. 2002. Landscape patterns of an aquatic invader: assessing dispersal extent from spatial distributions. *Ecological Applications*, 12(3): 749-759.
- Karatayev, A. Y., L. E. Burlakova, D. P. Molloy, L. K. Volkova and V. V. Volosyuk. 2002. Field and laboratory studies of *Ophryoglena* sp. (Ciliata: Ophryoglenidae) infection in zebra mussels, *Dreissena polymorpha* (Bivalvia: Dreissenidae). *Journal of Invertebrate Pathology*, 79: 80-85.

- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. 2002. Impacts of zebra mussels on aquatic communities and their role as ecosystem engineers. In: Leppäkoski, E., S. Gollasch & S. Olenin (eds). *Invasive Aquatic Species of Europe - Distribution, Impacts and Management*. Kluwer Academic Publishers, Dordrecht, The Netherlands, pp. 433-446.
- Karatayev, A. Y., S. E. Mastitsky, L. E. Burlakova, D. P. Molloy, and G. G. Vezhnovets. 2003. Seasonal dynamics of endosymbiotic ciliates and nematodes in *Dreissena polymorpha*. *Journal of Invertebrate Pathology*, 83 (1): 73-82.
- Karatayev, A. Y., L. E. Burlakova, T. Kesterton, and D. K. Padilla. 2003. Dominance of the Asiatic clam, *Corbicula fluminea* (Müller) in the benthic community of a reservoir. *Journal of Shellfish Research*, 22(2): 487-493.
- Karatayev, A. Y., S. E., Mastitsky, D. P. Molloy, and L. E. Burlakova. 2003. Patterns of emergence and survival of *Conchophthirus acuminatus* (Ciliophora: Conchophthiridae) from *Dreissena polymorpha* (Bivalvia: Dreissenidae). *Journal of Shellfish Research*, 22(1): 495-500.
- Karatayev, A. Y., L. E. Burlakova, D. K. Padilla, and L. E. Johnson. 2003. Patterns of spread of the zebra mussel (*Dreissena polymorpha* (Pallas)): the continuing invasion of Belarusian lakes. *Biological Invasions*, 5(3): 213-221.
- Howells, R. G., J. B. Wise, A. Y. Karatayev, and L. E. Burlakova. 2004. New "old records" of Asian clam *Corbicula fluminea* in Texas. *Ellipsaria*, 6(3):11.
- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. 2005. Contrasting distribution and impacts of two freshwater exotic suspension feeders, *Dreissena polymorpha* and *Corbicula fluminea*. In: R. Dame and S. Olenin (eds.) *The Comparative Roles of Suspension Feeders in Ecosystems*. NATO Science Series: IV – Earth and Environmental Sciences. Springer, pp. 239-262.
- Burlakova, L. E., A. Y. Karatayev, and D. K. Padilla. 2005. Functional changes in benthic freshwater communities after *Dreissena polymorpha* (Pallas) invasion and consequences for filtration. In: R. Dame and S. Olenin (eds.) *The Comparative Roles of Suspension Feeders in Ecosystems*. NATO Science Series: IV – Earth and Environmental Sciences. Springer, pp. 263-275.
- Karatayev, A. Y., R. G. Howells, L. E. Burlakova, and B. D. Sewell. 2005. History of spread and current distribution of *Corbicula fluminea* (Müller) in Texas. *Journal of Shellfish Research*, 24(2): 553-559.
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- Karatayev, A. Y., and L. E. Burlakova. Historic and current geographic pattern, and rate of spread of *Dreissena polymorpha* in Belarus, Former Soviet Union. 7th International Zebra Mussel and Aquatic Nuisance Species Conference. January 29, 1997. New Orleans, LA.
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- Karatayev, A. Y. Limnological studies in the Republic of Belarus, with an emphasis on zebra mussel research. New-York Museum Biological Survey Seminar. April 4, 1997. Albany, NY. (Invited seminar).
- Karatayev, A. Y., and L. E. Burlakova. Historic and current geographic pattern, and rate of spread of *Dreissena polymorpha* in Belarus, Former Soviet Union. Northeast Conference on Nonindigenous Aquatic Species. April 18, 1997. Burlington, VT.
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- Karatayev, A. Y., D. P. Molloy, L. E. Burlakova, G. G. Vezhnovets, L. K. Volkova, and V. V. Us. Propagation of *Dreissena* and its influence on ichthyofauna of reservoirs of Belarus. International Conference on the Problems of the Development of Fish Industry in the Inland Reservoirs in Terms of Transition to Market Economy. October 15-16, 1998. Minsk, Belarus.
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- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. The ecological effect of *Dreissena polymorpha* (Pallas) invasion. 16th Baltic Marine Biologists Symposium. June 21-26, 1999. Klaipeda, Lithuania. (Invited presentation).
- Karatayev, A. Y. Zoobenthos of Belarusian waterbodies. International Conference on Lake Ecosystems. September 20-25, 1999. Naroch - Minsk, Belarus.
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- Karatayev, A., L. Burlakova, and D. Padilla. Zebra Mussels as ecosystem engineers. 2003 Aquatic Sciences Meeting of American Society of Limnology and Oceanography, 8 – 14 February, 2003. Salt Lake City, Utah.

- Karatayev, A., L. Burlakova, and D. Padilla. Zebra mussel and Asiatic clam impact on freshwater ecosystems. 106th Annual Meeting of the Texas Academy of Science. Nacogdoches, Texas, February 27 - March 01, 2003.
- Karatayev, A. Y. Zebra mussel: biology, ecology & impact on ecosystems. Invited Lecture. UW Wisconsin-Madison, Co-sponsored by the UW Center for Limnology and the Dane County Lakes and Watershed Commission. June 17, 2003. Madison, WI.
- Karatayev, A., L. Burlakova, and D. Padilla. Zebra Mussels as ecosystem engineers. Invited talk at Cornell University Biological Field Station, Bridgeport, NY. July 9, 2003.
- Karatayev, A., L. Burlakova, and D. Padilla. Contrasting distribution and impacts of two freshwater exotic suspension feeders, *Dreissena polymorpha* and *Corbicula fluminea*. The Comparative Roles of Suspension Feeders in Ecosystems, NATO Advanced Research Workshop, 4 - 9 October 2003, Nida, Lithuania.
- Karatayev, A. Report of Freshwater Group. The Comparative Roles of Suspension Feeders in Ecosystems, NATO Advanced Research Workshop, 4 - 9 October 2003, Nida, Lithuania.
- Karatayev, A. Y., L. E. Burlakova, R. G. Howells, R. G. McMahon. Channeled applesnail: distribution, population dynamics, reproduction potential and threat to coastal ecosystem. Invited talk at the Galveston Bay Estuary Program, Texas Commission on Environmental Quality, February 27 2004, Webster, TX.
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- Karatayev A. Y., and L. E. Burlakova. *Corbicula fluminea* Distribution in Texas. 108th Annual Meeting of the Texas Academy of Sciences. March 3 - 5, 2005. Edinburg, Texas.
- Karatayev A. Y., D. K. Padilla, D. Boltovskoy, L. E. Burlakova, and D. Minchin. Global spread of exotic freshwater bivalves. 97th Annual Meeting of National Shellfisheries Association, April 10-14 2005, Philadelphia.
- Karatayev A. Y., L. E. Burlakova, D. K. Padilla, and D. Boltovskoy. Potential spread and ecosystem impacts of *Limnoperna fortunei* in Texas. 109th Annual Meeting of the Texas Academy of Sciences. March 3 - 5, 2006. Beaumont, Texas.
- Karatayev A. Y., D. Boltovskoy, D. K. Padilla, and L. E. Burlakova. Could *Limnoperna fortunei* be worse than *Dreissena polymorpha*? Potential spread and ecosystem impacts. 98th Annual Meeting of National Shellfisheries Association, March 2006, Monterey, California.
- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. *Dreissena polymorpha* in Belarus: 200 years of invasion, 70 years of research. 14th International Conference on Aquatic Nuisance Species. May, 2006, Key Biscayne, Florida.
- Karatayev A. Y. Aquatic Invasive Species: Ongoing projects. July 2006. Naroch Biological Station, Naroch, Belarus.
- Karatayev A. Y., L. E. Burlakova, D. Boltovskoy, & D. K. Padilla. Potential effect of introduction of exotic bivalve *Limnoperna fortunei* on coastal ecosystems. Eighth Biennial State of the Bay Symposium "Charting the Course to 2015: People, the Bay, and the Future". Galveston, Texas, January 23-25, 2007.
- Karatayev A. Y., L. E. Burlakova, D. Boltovskoy, and D. K. Padilla. Bivalve *Limnoperna fortunei*: another potential invader in Texas. Big Thicket Science Conference, March 22-25, 2007, Beaumont, Texas.
- Karatayev A. Y., D. Boltovskoy, D. K. Padilla, L. E. Burlakova, and V. A. Karatayev. *Limnoperna fortunei* - a new potential invader to North America. Invited seminar, University of Florida, Department of Fisheries and Aquatic Sciences, Gainesville, April 13, 2007.

- Karatayev A. Y., D. Boltovskoy, D. K. Padilla, L. E. Burlakova, and V. A. Karatayev. *Limnoperna fortunei* – a new potential invader to North America: could it be worse than zebra mussel? Invited seminar, Trout Lake Station, University of Wisconsin-Madison, June 13, 2007.
- Karatayev, A. Y., L. E. Burlakova, S. M. Mastitsky, and S. Olenin. Aquatic exotic species in Belarus: Past, Current and Future Invasions. Abstracts of 15th International Conference on Aquatic Nuisance Species. September 23-27, 2007, Nijmegen, The Netherlands. P. 33.
- Karatayev, A. Y., L. E. Burlakova, D. K. Padilla, S. Olenin, and S. M. Mastitsky. Invaders are not a random selection of species. Abstracts of 15th International Conference on Aquatic Nuisance Species. September 23-27, 2007, Nijmegen, The Netherlands.
- Karatayev, A. Y., and L. E. Burlakova. Zebra Mussel Impacts on Wisconsin's Lakes: Long-term dynamics and current status of benthic community of Lake Mendota, and potential effects of Zebra mussels. 30th Wisconsin Lakes Convention, Green Bay, WI, April 17-19, 2008.
- Karatayev, A. Y., L. E. Burlakova, D. K., Padilla, S. E. Mastitsky, and S. Olenin. How freshwater macroinvertebrate invaders differ from native species? IAGLR's 51st Annual Conference on Great Lakes Research (The International Association for Great Lakes Research), May 19 – 23, 2008, Trent University, Peterborough, Ontario.
- Karatayev, A. Y., L. E. Burlakova, D. K. Padilla, S. E. Mastitsky, and S. Olenin. Aquatic invaders are not a random selection of species. 2008 American Society of Limnology and Oceanography Summer Meeting, 8-13 June 2008, St. John's, Newfoundland and Labrador, Canada.
- Karatayev, A. Y., L. E. Burlakova, D. K. Padilla, S. Olenin, and S. M. Mastitsky. Invaders are not a random selection of species. Invited talk at the Cornell University Biological Field Station, Bridgeport, NY. June 17, 2008.
- Karatayev, A. Y., L. E. Burlakova, D. K. Padilla, D. Boltovskoy, D. Minchin, S. E. Mastitsky, and V. A. Karatayev. Change in global economies and trade: the potential spread of exotic freshwater bivalves. Invited talk at EEB seminar at the University of Buffalo. February 27, 2009.
- Karatayev, A. Y., D. Boltovskoy, L. E. Burlakova, D. Cataldo, V. A. Karatayev, F. Sylvester, and A. Marinelarena. Colonization pattern, population density and ecosystem impact of the Golden mussel *Limnoperna fortunei*. 16th International Conference on Aquatic Nuisance Species. April 19-23 2009, Montreal, Canada.
- Karatayev, A. Y., V. A. Karatayev, L. E., Burlakova, and D. Boltovskoy. Could *Limnoperna fortunei* be worse than *Dreissena polymorpha*? Population density and potential impacts. 16th International Conference on Aquatic Nuisance Species. April 19-23 2009, Montreal, Canada.
- Karatayev, A. Y., L. E. Burlakova, V. A. Karatayev, and D. K. Padilla. Vectors of introduction spread and potential impacts of exotic freshwater gastropods in Southern US. 16th International Conference on Aquatic Nuisance Species. April 19-23 2009, Montreal, Canada.
- Karatayev, A. Y., L. E. Burlakova, S. E. Mastitsky, D. K. Padilla, and E. L. Mills. Invasion paradox: why *Dreissena rostriformis bugensis*, being less invasive, outcompete *D. polymorpha*? 52 Annual Conference on Great Lakes Research. The International Association for Great Lakes Research, May 18 – 22, 2009, Toledo, OH.
- Karatayev, A. Y., L. E. Burlakova, C. Pennuto, and C. P. Basiliko. Dominance of exotic invertebrates changes the Lake Erie benthic community. 6th Biennial Conference of the Lake Erie Millennium Network. April 27-29, 2010, Windsor, ON.
- Karatayev, A. Y., L. E. Burlakova, S. E. Mastitsky, D. K. Padilla, and M. Hajduk. Contrasting survival and growth of zebra mussels and quagga mussels under different temperature regimes. 53rd Annual Conference on Great Lakes Research. The International Association for Great Lakes Research, May 17-21, 2010, Toronto, ON.
- Karatayev, A. Y., L. E. Burlakova, S. E. Mastitsky, D. K. Padilla, E. L. Mills, and V. A. Karatayev. Competitive ability versus invasion rate: which is a better invader, *Dreissena polymorpha* or *Dreissena rostriformis bugensis*? 2010 American Society of Limnology and Oceanography ASLO/NABS Summer Meeting, June 6-10, 2010, Santa Fe, NM.
- Karatayev, A. Y., L. E. Burlakova, S. E. Mastitsky, D. K. Padilla, and E. L. Mills. Invasion paradox: why *Dreissena rostriformis bugensis*, being less invasive, outcompete *D. polymorpha*? 17th International Conference on Aquatic Nuisance Species. August 29-September 2, 2010, San Diego, CA.
- Karatayev, A. Y. Invasive Bivalves as Ecosystem Engineers. Invited Seminar at NOAA-GLERL. Ann Arbor, MI, November 12, 2010.
- Karatayev, A. Y., S. E. Mastitsky, L. E. Burlakova, V. A. Karatayev, D. B. Conn, and M. M. Hadjuk. Exotic molluscs in the

Great Lakes Region host pathogenic trematodes. 54th Annual Conference on Great Lakes Research. The International Association for Great Lakes Research, May 30 – June 3, 2011. Duluth Minnesota.

- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. Distribution, population dynamics and ecosystem impacts of *Dreissena polymorpha* and *Dreissena rostriformis bugensis*. IV International Conference "Lake Ecosystems: Biological Processes, Anthropogenic Transformation, Water Quality. September 12-17, 2011. Naroch-Minsk, Belarus.
- Karatayev, A. Y. Invasive bivalves as ecosystem engineers. Invited Seminar at Ecology and Evolutionary Biology Seminar, SUNY Albany. February 3, 2012.
- Karatayev, A. Y., Burlakova, L. E., and S. E. Mastitsky. Predicting the zebra mussels spread: what can we learn from 200 years of continuous invasion. 55th Annual Conference on Great Lakes Research. May 13-17, 2012. Cornwall, Ontario, Canada.
- Karatayev, A. Y. Parasites of exotic species in invaded areas: does lower diversity mean lower epizootic impact? Invited talk at the Cornell University Biological Field Station, Bridgeport, NY. June 20, 2012.
- Karatayev, A. Y., T. D. Miller, and L. E. Burlakova. Long-term changes in unionid assemblages in the Rio Grande, one of the World's top 10 rivers at risk. International Meeting on Biology and Conservation of Freshwater Bivalves Bragança, Portugal, September 2012.
- Karatayev, A. Y. 35 years of research. Invited Presentation at EPA Great Lakes National Program Office, Chicago, November 2012.
- Karatayev, A. Y., L. E. Burlakova, C. M. Pennuto, J. Ciborowsky, V. A. Karatayev, P. Juette, and M. Clapsadl. Twenty five years of changes in *Dreissena* spp. populations in Lake Erie. 56th Annual Conference on Great Lakes Research. June 3 – 6, West Lafayette, Indiana.
- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. Spread, population dynamics and ecosystem impacts of zebra versus quagga mussels: What do we know and what we do not? 18th International Conference on Aquatic Invasive Species. April 21-25, 2013, Niagara Falls Ontario, Canada.
- Karatayev, A. Y., L. E. Burlakova, S. E. Mastitsky, and D. K. Padilla. Predicting the Zebra Mussels Spread: What Can We Learn From 200 Years of Continuous Invasion? 18th International Conference on Aquatic Invasive Species. April 21-25, 2013, Niagara Falls Ontario, Canada.
- Karatayev, A. Y., L. E. Burlakova, and T. D. Miller. Long-term changes in the distribution range and population size of Texas hornshell *Popenaias popeii*. 8th Biennial Symposium of the Freshwater Mollusk Conservation Society, March 10 – 14, 2013, Guntersville, Alabama.
- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. The most aggressive freshwater invaders: Parallels, contrasts, spread, and ecosystem impacts of zebra and quagga mussels. World Congress of Malacology. July 22-26, 2013, Azores, Portugal.
- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. Spread, population dynamics and ecosystem impacts of zebra versus quagga mussels. 57th Annual Conference on Great Lakes Research. May 26-30, 2014, Hamilton, Ontario, Canada.
- Karatayev, A. Y., T. D. Miller, and L. E. Burlakova. Long-term changes in the distribution range and population size of endemic unionid bivalve *Popenaias popeii*. Invited talk presented February 4, 2014 at Berry College seminar, Rome Georgia.
- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. Zebra versus quagga mussels: spread, population dynamics, and ecosystem impacts of zebra versus quagga mussels. 15th World Lake Conference. September 1 -5, 2014, Perugia, Italy.
- Karatayev, A. Y., L. E. Burlakova, and K. Mehler. Preliminary Results of *Dreissena* spp. study in Lake Erie using traditional sampling and Video Imaging Analysis. Invited talk presented February 12, 2015 at EPA Great Lakes National Program Office, Chicago.
- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. Difference in spread, population dynamics, and ecosystem impacts of two *Dreissena* congeners. ASLO Aquatic Sciences Meeting. February 2015, Granada, Spain.
- Karatayev, A. Y., L. E. Burlakova, and K. Mehler. Long-term dynamics of *Dreissena* spp. in Lake Erie: Insights for population boom and bust. 58th Annual Conference on Great Lakes Research. May 25-29, 2015, Burlington, Vermont.

- Karatayev, A. Y., L. E. Burlakova, K. Mehler, and R. P. Barbiero. Environmental factors affection distribution and population dynamics of *Dreissena* spp. in Lake Erie. Invited talk at the Cornell University Biological Field Station. June 18, 2015, Bridgeport, NY.
- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. Predicting the spread of aquatic invaders: What can we learn from 200 years of continuous invasion by zebra mussels? Ecological Society of America, 100th Annual Meeting. August 9 – 14, 2015. Baltimore, Maryland.
- Karatayev, A. Y. Lake Erie and Lake Michigan Benthos: Cooperative Science and Monitoring Initiative. 9th Biennial State of Lake Michigan/15th Annual Great Lakes Beach Association Joint Conference. October 28-30, 2016. Acme, Michigan.
- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. Endangered or invaders? Molluscs - the most imperiled group of freshwater invertebrates includes the highest number of invaders. Second International Meeting on Biology and Conservation of Freshwater Bivalves. Buffalo, USA, 4 –8 October, 2015.
- Karatayev, A. Y., K. Mehler, V. Karatayev, and L. E. Burlakova. Aliens, GoPros, and Popcorn: counting invasive mussels on the bottom of Lake Michigan. Invited talk presented at EPA Great Lakes National Program Office, Chicago. February 17, 2016.
- Karatayev, A. Y., K. Mehler, and L. E. Burlakova. Lake Erie and Lake Michigan Benthos: Cooperative Science and Monitoring Initiative. Invited talk presented at EPA Great Lakes National Program Office, Chicago. February 17, 2016.
- Karatayev, A. Y., L. E. Burlakova, K. Mehler, V. A. Karatayev, T. F. Nalepa, A. K. Baldrige, and E. K. Hinchey. Underwater video is an effective tool to reveal *Dreissena* spatial distribution and biomass. 59th Annual Conference on Great Lakes Research. June 6-10, 2016, Guelph, Ontario, Canada.
- Karatayev, A. Y., L. E. Burlakova, K. Mehler, S. A. Bocaniov, P. D. Collingsworth, G. Warren, R. T. Kraus, and E. K. Hinchey. Bottom hypoxia is a major driver of *Dreissena* spp. distribution in Lake Erie. A.Y. XXXIII Congress of International Society of limnology. 31 July – 5 August 2016, Torino, Italy.
- Karatayev, A. Y., L. E. Burlakova, K. Mehler, V. A. Karatayev, T. F. Nalepa, A. K. Elgine, and E. K. Hinchey. Underwater video is an effective tool to reveal *Dreissena* spatial distribution and densities. Cooperative Science and Monitoring Initiative – Lake Michigan. January 26, 2017, Chicago, USA.
- Karatayev, A.Y., L. E. Burlakova, K. Mehler, S. A. Bocaniov, P. D. Collingsworth, G. Warren, R.T. Kraus, and E. K. Hinchey. Biomonitoring using invasive species in a large lake: *Dreissena* distribution maps hypoxia zones. Status of Lake Erie: Understanding the Nearshore and Its Connections. The 8th Binational Meeting of the Lake Erie Millennium Network. February 21 - 23, 2017, Windsor, Ontario, Canada.
- Karatayev, A. Y., L. E. Burlakova, K. Mehler, V. A. Karatayev, T. F. Nalepa, A. K. Elgine, and E. K. Hinchey. Underwater video is an effective tool to reveal *Dreissena* spatial distribution. ASLO Aquatic Sciences Meeting. February 26 – March 3, 2017, Honolulu, Hawaii, USA.
- Karatayev, A. Y., L. E. Burlakova, K. Mehler, V. A. Karatayev, T. F. Nalepa, A. K. Elgine, and E. K. Hinchey. Underwater video is an effective tool to reveal *Dreissena* spatial distribution. 10th Biennial Symposium of the Freshwater Mollusk Conservation Society, March 26 – 30, 2017, Cleveland, Ohio.
- Karatayev, A. Y., V. A. Karatayev, L. E. Burlakova, K. Mehler, M. Clapsadl, M. Rowe. *Dreissena* growth variation in time and space: Lessons from Lake Erie. 60th Annual Conference on Great Lakes Research. May 15 - 19, 2017, Detroit, Michigan, USA.
- Karatayev, A. Y., Burlakova, L.E., Mehler, K., Karatayev, V., Nalepa, T., Elgin, A., Hinchey, E. Underwater video is an effective tool to reveal *Dreissena* spatial distribution. 20th International Conference on Aquatic Invasive Species, October 22-26, 2017, Fort Lauderdale, FL, USA.
- Karatayev, A. Y., L. E. Burlakova, K. Mehler, V. Karatayev, T. Nalepa, A. Elgin, and E. Hinchey. Underwater video is an effective tool to reveal *Dreissena* spatial distribution. 2017 State of Lake Michigan Conference, November 7-10, 2017, Green Bay, Wisconsin, USA.
- Karatayev, A., L. Burlakova, V. Karatayev, K. Mehler, and T. Nalepa. Population dynamics of zebra and quagga mussels in the Great Lakes: Cross-lakes comparison. 61st Annual Conference on Great Lakes Research. June 18 - 22, 2018, Toronto, Canada.

Karatayev, A., L. Burlakova, A. Karatayev, K. Mehler, A. Elgin, and T. Nalepa. Population dynamics of *Dreissena polymorpha* and *D. rostriformis bugensis* in the Laurentian Great Lakes. International Conference “Big Lakes, Small World”, European Large Lakes Symposium and International Association for Great Lakes Research (ELLS-IAGLR-2018), September 23-28, 2018, Evian (France).

PROFESSIONAL SOCIETIES:

Association for the Sciences of Limnology and Oceanography
International Association for Great Lake Research
Great Lakes Research Consortium
Freshwater Molluscs Conservation Society

TEACHING EXPERIENCE:

Belarus:

Hydrobiology (Lecture)
Global Ecology (Lecture)
General Ecology (Lecture and Lab)
Aquatic Ecology (Lecture and Lab)

USA:

Introductory Zoology
Limnology (Lecture and Lab)
Marine Biology (Lecture and Lab)
Senior Seminar in Exotic Species
Pollution of Aquatic Environment (Lecture)
Waste Water Analysis (Graduate course, Lecture and Lab)
Advanced Limnology (Graduate course, Lecture and Lab)
Plankton Ecology (Graduate course, Lecture and Lab)
Aquatic Ecology (Graduate course, Lecture)

GRADUATE STUDENTS (Major Adviser)

Nataliya M. Lisovskaya (1998-2000), M.Sc., Belarusian State University, Belarus
Sergey E. Mastitsky (2000- 2004), Ph.D., Belarusian State University, Belarus
Tom Kesterson (2001 - 2003), M.Sc., Stephen F. Austin State University
Andrei Nesterovitch (2002 – 2003), M.Sc., Stephen F. Austin State University
Michael Houston (2002 – 2003), M.Sc., Stephen F. Austin State University
Sewell Brian (2002 – 2003), M.Sc., Stephen F. Austin State University
Arias Jason (2002 – 2004), M.Sc., Stephen F. Austin State University
Rhonda Mood (2002 – 2004), M.Sc., Stephen F. Austin State University
Oladunni Olayinka (2002 – 2004), M.Sc., Stephen F. Austin State University
Volha Minich (2003-2006), M.Sc., Stephen F. Austin State University
Jules Smith (2002 - 2006), M.Sc., Stephen F. Austin State University
Leah Cartwright (2004 – 2006), M.Sc., Stephen F. Austin State University
David Hollas (2004 – 2006), M.Sc., Stephen F. Austin State University
Daniel Bennett (2005 – 2007), M.Sc., Stephen F. Austin State University
Kevin Nichols (2006 – 2008), M.Sc., Stephen F. Austin State University
Michael Cook (2006 – 2008), M.Sc., Stephen F. Austin State University
Paul Juette (2011 – 2014), MA, Buffalo State College.

SERVICE:

Buffalo State College, Buffalo New York. Campus representative for the Great Lakes Research Consortium (2007 – current); Member of the Biology Department Personnel Committee (2007 – current); New Science Building

Renovation Committee member (2007 – current); Member of the Great Lakes Center Graduate Committee (2011 – current); Member of the Field Station Renovation Committee (2011 – current).

Stephen F. Austin State University, Nacogdoches, Texas. Department Committees: Scholarship Committee (2001 – 2003); Vehicle Use Committee (2001 – present), Graduate Committee (2003 - present), Freshman Biology Committee (2003 - present); Chair, 2003-2004; Zoology & Ecology Positions Search Committees, 2001-2006.

Belarusian State University, Minsk, Belarus. Panel Member, Council for Doctoral Dissertation Defense in Zoology, Ecology and Hydrobiology (Zoology Institute of the National Academy of Sciences of Belarus), 1993-2000. Chairmen, Council for Coordination of Fundamental and Applied Study in Ecology at Belarusian State University, 1997-2000. Chairmen, Ecology Section of Education-Methodological Council in Natural Sciences, Republic of Belarus, 1998-2000.

Ph. D. DISSERTATION EXAMINER:

Ph.D. Thesis by Frances Lucy “The dynamics of zebra mussel populations in Lough Key, Co. Roscommon”. The Institute of Technology, Sligo, Ireland, August 2005.

GRADUATE RESEARCH:

Candidate Dissertation Title: Ecology of *Dreissena polymorpha* Pallas and its effects on macrozoobenthos of the thermal power plant’s cooling reservoir. Supervisor V. P. Lyakhnovich. 1977-1983.

Doctoral Dissertation Title: The structure and function of benthic and periphyton’s communities in cooling reservoirs. 1984-1992.