

# Curriculum Vitae: Lyubov Evgenievna Burlakova

## Education

Institute of Zoology, Belarusian Academy of Science, Minsk, Belarus; Candidate of Science (Ph. D.); 1998; Aquatic Biology

Belarusian State University, Minsk, Belarus; M. Sc., 1985; Biophysics.

## Employment and Experience

2014 – Present: Senior Research Scientist, Great Lakes Center, Research Foundation of SUNY, SUNY Buffalo State College, Buffalo, New York

2007 – Present: Adjunct Associate Professor, Biology Department, SUNY Buffalo State College, Buffalo, New York

2007 – 2014: Research Scientist, Great Lakes Center, Research Foundation of SUNY, SUNY Buffalo State College, Buffalo, New York

2001 – 2007: Adjunct Professor, Research Scientist, Stephen F. Austin State University, Nacogdoches, Texas

2001: Research Ecologist, University of the State of New York Museum Field Research Lab

1998 – 2000: Assistant Professor, General Ecology Department, Biology Faculty, Belarusian State University

1997 – 1998: Senior Scientist, Laboratory of Aquatic Ecology, Biology Faculty, Belarusian State University

1996 – 1997: Visiting Assistant Professor, University of Wisconsin-Madison

1996 – 1997: Senior Scientist, Department of Aquatic Ecology, Lakes Research Laboratory, Geography Faculty, Belarusian State University

1994 – 1996: Scientist, Department of Aquatic Ecology, Lakes Research Laboratory, Geography Faculty, Belarusian State University

1992 – 1994: Junior Scientist, Department of Aquatic Ecology, Lakes Research Laboratory, Geography Faculty, Belarusian State University

1985 – 1992: Junior Scientist, Biophysics Department, Physics Faculty, Belarusian State University

## Research Interests

Ecology and diversity of freshwater benthic communities

Aquatic invasive species: Ecology, spread, and role in ecosystems

Biodiversity and conservation of freshwater molluscs Family Unionidae

Growth, reproduction, parasitology, spread, and ecology of zebra and quagga mussels and their role in aquatic ecosystems

**Grants/Contracts Received (Principle Investigator and Co-PI)**

2022 – 2028: Watkins J., L. Rudstam, L. E. Burlakova, A. Y. Karatayev, and A. Hryciuk. Great Lakes Biology Monitoring Program: Zooplankton, Mysis, and Benthic Components. GLRI, U.S. EPA. \$6,750,000 (\$3,040,000 for BSC).

2021 – 2023: Burlakova, L.E., and L. Rudstam. Great Lakes Long-Term Biological Monitoring. U.S. EPA Great Lakes Restoration Initiative. Subaward Amendment. \$287,676 (for BSC). 2021-2022.

2017 – 2022: Rudstam, L., L. E. Burlakova, A. Y. Karatayev, and J. Watkins. Great Lakes Long-term Biological Monitoring Program. U.S. EPA Great Lakes Restoration Initiative. \$5,999,903 (\$2,700,000 for BSC).

2017 – 2022: Molloy, D., and L. Burlakova. The Natural Enemies of Dreissenid Mussels: An update of the seminal monograph published in 1997. Hudson River Foundation. \$65,200.

2017 – 2021: Burlakova, L. E., and A. Y. Karatayev. DNA Barcode Reference Library: Mollusca, Annelida, and minor phyla. U.S. EPA Great Lakes Restoration Initiative. \$400,000.

2016 – 2018: Karatayev, A. Y., and L. E. Burlakova. Lake Superior Benthos: Cooperative Science & Monitoring Initiative. US Geological Survey. \$150,000.

2014 – 2018: 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.

2014 – 2017: Karatayev, A. Y., and L. E. Burlakova. Lake Erie and Lake Michigan Benthos: Cooperative Science and Monitoring Initiative. US Geological Survey. \$500,000.

2012 – 2018: Rudstam, L., A. Y. Karatayev, and L. E. Burlakova. Great Lakes Long-Term Biological Monitoring of Zooplankton, Benthos, and Chlorophyll a. U.S. EPA. \$3,867,525 (\$1,094,726 for BSC).

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., and A. Y. Karatayev. Zebra/Quagga Mussel Viability Test. U.S. Fish and Wildlife Service, Pacific Region. \$24,962.

2011 – 2013: Zanatta, D., L. E. Burlakova, A. Y. Karatayev, R. Krebs, M. Hoggarth, F. de Szalay, J. Bossenbroek, E. Meyer, and 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.

2011 – 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 (LENONS). U.S. EPA Great Lakes Restoration Initiative. \$615,813.

2010 – 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 Joint Project with New Mexico Department of Game and Fish. \$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: Burlakova, L., A. Karatayev, and M. Goehle. Preliminary Risk Assessment of the Parasites of Aquatic Exotic Invertebrates in the Great Lakes Region. New York Great Lakes Protection Fund Small Grants Program (Great Lakes Research Consortium, New York Department of Environmental Conservation, New York Great Lakes Basin Advisory Council). \$9,473.

2009: Pennuto, C. M., A. Y. Karatayev, A. Pérez-Fuentetaja, L. E. Burlakova, G. Matisoff, J. Kramer, and J. Conroy. The Nearshore and Offshore Lake Erie Nutrient Study (NOLENS). U.S. EPA. \$150,000.

2008 – 2009: Burlakova, L. E., and A. Y. Karatayev. State-Wide Assessment of Unionid Diversity in Texas. State Wildlife Grant Program, U.S. Fish and Wildlife Service. \$67,514.

2006 – 2009: Burlakova, L. E., and A. Y. Karatayev. Assessing Potential Impacts of Channeled Applesnail to Wetlands in the Galveston Bay Watershed. Texas Commission on Environmental Quality. \$20,000.

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.

2007 – 2008: Burlakova, L. E., and A. Y. Karatayev. State-Wide Assessment of Unionid Diversity in Texas. State Wildlife Grant Program, U.S. Fish and Wildlife Service. \$69,375.

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.

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.

2004 – 2006: Karatayev, A. Y., and L. E. Burlakova. Freshwater mussel survey in Texas. State Wildlife Grants, U.S. Fish and Wildlife Service. Texas Parks and Wildlife Department. \$120,000.

2006: SFA Research Enhancement Minigrant. \$500.

2006: Karatayev, A. Y., and L. E. Burlakova. SFA Research Enhancement Minigrant. \$750.

2004 – 2006: 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. Survey of Benthic Macroinvertebrates at Texas Army National Guard (TXARNG) Facility Fort Wolters, Parker County, Texas. Texas Army National Guard. \$16,024

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.

2003 – 2005: Burlakova, L. E., and A. Y. Karatayev. Monitoring of Unionid Populations at Texas Army National Guard (TXARNG) Facility Camp Maxey, Lamar County, Texas. Texas Army National Guard. \$44,900.

2003 – 2005: Burlakova, L. E., and A. Y. Karatayev. Survey of Benthic Macroinvertebrates at Texas Army National Guard (TXARNG) Facility Camp Swift, Bastrop County, Texas. Texas Army National Guard. \$15,800.

2003 – 2004: Burlakova, L. E., and A. Y. Karatayev. Survey of Benthic Macroinvertebrates at Texas Army National Guard (TXARNG) Facility Camp Maxey, Lamar County, Texas. Texas Army National Guard. \$15,500.

1998 – 2000: Burlakova, L. E. Study the Potential Spread of Zebra Mussels and Develop Fundamentals of Impact of Species-filtrator on Water Ecosystems using Lakes of Belarus and United States as an Example. Ministry for Education and Science Republic of Belarus. \$1,000.

1995 – 1997: Karatayev, A. Y., L. E. Burlakova, et al. Study of Zebra Mussel Effects on Ecological Systems of Belarusian Lakes and Development of Methods for Using Zebra Mussels to Improve Water Quality and Increase Fish Productivity. Ministry for Education and Science Republic of Belarus. \$12,000.

1993 – 1994: Karatayev, A. Y., L. E. Burlakova, et al. Development of a Mathematical Model of the Ecological System of Lake Lukomskoe. Novolukomskij Town Executive Committee. \$2,200.

1990 – 1991: Karatayev, A. Y., and L. E. Burlakova. Environmental Monitoring of Lukomskoe Lake Focusing on Anthropogenic Influences. Novolukomlskaya Thermal Electric Power Plant. \$800.

## Professional Publications and Presentations

Peer-review Publications: 121

Presentations at Scholarly Meetings and Invited Talks: 108

Papers in Proceedings: 11

Reports: 12

Published Abstracts: 216

## Publications

### Reviewed Publications:

Gerasimova, L. K., L. E. Burlakova, and B. A. Tatarinov. 1985. Comparative study of the effect of ultraviolet rays, alpha radiation and ozone on apple induviate tissue. *Vestnik Belorusskogo Universiteta*. Ser. 2 (3): 14-18. (in Russian).

Zhukovskaya, L. N., L. E. Burlakova, L. E. Gorbatshevich, T. M. Novikova, B. A. Tatarinov, and S. N. Ustichenko. 1988. Efficiency of short-term methods for storage of fruits and vegetables at high temperatures. *Vestsi Akademii Navuk BSSR. Seriya selskagaspadarchikh navuk* 1. Dep. in VNIITISX, № 11, BC-87, Dep. 24 p. (in Russian).

Tatarinov, B. A., T. M. Novikova, L. N. Zhukovskaya, and L. E. Burlakova. 1988. Methods for storage of fruits and berries transporting in airplane containers at high temperatures. *Vestsi Akademii Navuk BSSR*. 2: 11-18. (in Russian).

Karatayev, A. Y., and L. Y. Burlakova. 1992. Changes in trophic structure of macrozoobenthos of an eutrophic lake, after invasion of *Dreissena polymorpha*. *Biologiya Vnutrennikh Vod. Inform. Byull.* 93: 67-71 (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).

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).

Karatayev, A. Y., V. P. Lyakhnovich, 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).

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 Belarussian).

Karatayev, A. Y., and L. E. Burlakova. 1995. The role of *Dreissena* in lake ecosystems. *Russian Journal of Ecology* 26(3): 207-211. Translated from *Ecologiya* 26(3), 1995, pp. 232-236. (in English).

Karatayev, A. Y., V. M. Samoilenko, L. E. Burlakova, Z. K. Kartashevich, and A. N. Rachevskij. 1995. Recommendations for the Restoration of Lakes under Strong Anthropogenic Influence. Belgosuniversitet Press, Minsk. 73 p. (in Russian).

- Karatayev, A. Y., L. E. Burlakova, I. A. Rudakovskiy, and Z. K. Kartashevich. 1996. Radioactive contamination of Belarussian lakes. *In*: T. V. Belookaya et al. (eds.) Ecological anthropology. Annual issue, pp. 46-58. Belarussian Committee "Deti Chernobilya" Press, Minsk (in Russian with English summary).
- 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.
- Burlakova, L. E. 1998. Ecology of mussel *Dreissena polymorpha* (Pallas) and its role in structure and function of aquatic ecosystems. Candidate Dissertation, Zoology Institute of the Academy of Science Republic Belarus, Minsk, Belarus, 168 pp. (in Russian with English abstract).
- 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, pp. 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), pp. 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). pp. 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(2002): 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 and 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., 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, 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., 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 Belarussian 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. (Scientific note).
- 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.
- Karatayev A. Y., L. E. Burlakova, and S. I. Dodson. 2005. Community analysis of Belarussian lakes: relationship of species diversity to morphology, hydrology, and land use. *Journal of Plankton Research* 27(10): 1045-1053.
- Burlakova, L. E., D. K. Padilla, A.Y. Karatayev, and D. Minchin. 2006. Endosymbionts of *Dreissena polymorpha* in Ireland: evidence for the introduction of adult mussels. *Journal of Molluscan Studies* 72: 207-210.
- Karatayev, A.Y., L. E. Burlakova, and D. K. Padilla. 2006. Growth rate and longevity of *Dreissena polymorpha* (Pallas): a review and recommendations for future study. *Journal of Shellfish Research* 25(1): 23-32.
- Burlakova, L. E., A. Y. Karatayev, and D. K. Padilla. 2006. Changes in the distribution and abundance of *Dreissena polymorpha* within lakes through time. *Hydrobiologia* 571:133-146.
- Howells, R. G., L. E. Burlakova, A. Y. Karatayev, R. K. Marfurt, and R. L. Burks. 2006. Native and introduced Ampullaridae in North America: history, status, and ecology. In: R. C. Joshi, L. S. Sebastian, eds. *Global Advances in Ecology and Management of Golden Apple Snails*. Philippine Rice Research Institute (PhilRice), Philippines. 73-112.

- Karatayev, A. Y., D. K. Padilla, D. Minchin, D. Boltovskoy, and L. E. Burlakova. 2007. Changes in global economies and trade: the potential spread of exotic freshwater bivalves. *Biological Invasions* 9:161–180.
- Karatayev, A. Y., D. Boltovskoy, D. K. Padilla, and L. E. Burlakova. 2007. The invasive bivalves *Dreissena polymorpha* and *Limnoperna fortunei*: parallels, contrasts, potential spread and invasion impacts. *Journal of Shellfish Research* 26 (1): 205-213.
- Burlakova, L. E., and A. Y. Karatayev. 2007. The effect of invasive macrophytes and water level fluctuations on unionids in Texas impoundments. *Hydrobiologia* 586: 291-302.
- Karatayev, A. Y., L. E. Burlakova, D. P. Molloy, and S. E. Mastitsky. 2007. *Dreissena polymorpha* and *Conchophthirus acuminatus*: What can we learn from host-commensal relationships. *Journal of Shellfish Research* 26:1153-1160.
- Karatayev, A. Y., L. E. Burlakova, S. E. Mastitsky, and S. Olenin. 2008. Past, current, and future of the Central European Corridor for aquatic invasions in Belarus. *Biological Invasions* 10: 215-232.
- Karatayev, A. Y., L. E. Burlakova, and S. I. Dodson. 2008. Community analysis of Belarusian lakes: correlations of species diversity with hydrochemistry. *Hydrobiologia* 605: 99-112.
- Burlakova, L. E., A. Y. Karatayev, D. K. Padilla, L. D. Cartwright, and D. N. Hollas. 2009. Wetland restoration and invasive species: applesnail (*Pomacea insularum*) feeding on native and invasive aquatic plants. *Restoration Ecology* 17(3): 433-440.
- Karatayev, A. Y., L. E. Burlakova, V. A. Karatayev, and D. K. Padilla. 2009. Introduction, distribution, spread, and impacts of exotic freshwater gastropods in Texas. *Hydrobiologia* 619: 181-194.
- Karatayev, A. Y., L. E. Burlakova, D. K. Padilla, S. E. Mastitsky, S. Olenin. 2009. Invaders are not a random selection of species. *Biological Invasions* 11: 2009-2019.
- Boltovskoy, D., A. Karatayev, L. Burlakova, D. Cataldo, V. Karatayev, F. Sylvester, and A. Mariñelarena. 2009. Significant ecosystem-wide effects of the swiftly spreading invasive freshwater bivalve *Limnoperna fortunei*. *Hydrobiologia* 636: 271-284.
- Burlakova, L. E., D. K. Padilla, A.Y. Karatayev, D. N. Hollas, L. D. Cartwright, and K. D. Nichol. 2010. Differences in population dynamics and potential impacts of a freshwater invader driven by temporal habitat stability. *Biological Invasions* 12(4): 927-942.
- Mastitsky, S. E., A. Y. Karatayev, L. E. Burlakova, and B. V. Adamovich. 2010. [Non-native fishes of Belarus: diversity, distribution, and risk classification using the Fish Invasiveness Screening Kit \(FISK\) \(PDF\)](#). *Aquatic Invasions* 5(1): 103-114.
- Molloy, D. P., L. Giamberini, L. E. Burlakova, A. Y. Karatayev, J. R. Cryan, S. L. Trajanovski, and S. P. Trajanovska. 2010. Investigation of the endosymbionts of *Dreissena stankovici* with morphological and molecular confirmation. Chapter 23 in G. van der Velde, S. Rajagopal and A. bij de Vaate (eds), *The Zebra Mussel in Europe*. Backhuys Publishers, Leiden/Margraf Publishers, Weikersheim. p. 227-238.



- Karatayev, A.Y., L. E. Burlakova, and D. K. Padilla. 2010. *Dreissena polymorpha* in Belarus: history of spread, population biology, and ecosystem impacts. Chapter 9 in G. van der Velde, S. Rajagopal and A. bij de Vaate (eds), *The Zebra Mussel in Europe*. Backhuys Publishers, Leiden/ Margraf Publishers, Weikersheim. p. 101-112.
- Mastitsky, S. E., A. Y. Karatayev, L. E. Burlakova, and D. P. Molloy. 2010. Parasites of exotic species in invaded areas: does lower diversity mean lower epizootic impact? *Diversity and Distributions* 16: 798–803.
- Karatayev, A. Y., L. E. Burlakova, V. A. Karatayev, and D. Boltovskoy. 2010. *Limnoperna fortunei* vs. *Dreissena polymorpha*: Population densities and benthic community impacts of two invasive freshwater bivalves. *Journal of Shellfish Research* 29(4): 975-985.
- Karatayev, A. Y., S. E. Mastitsky, D. K. Padilla, L. E. Burlakova, and M. M. Hajduk. 2011. Differences in growth and survivorship of zebra and quagga mussels: size matters. *Hydrobiologia* 668(1):183-194.
- Burlakova, L. E., A. Y. Karatayev, V. A. Karatayev, M. E. May, D. L. Bennett, and M. J. Cook. 2011. Endemic species: contribution to community uniqueness, effect of habitat alteration, and conservation priorities. *Biological Conservation* 144: 155–165.
- Burlakova, L. E., A. Y. Karatayev, V. A. Karatayev, M. E. May, D. L. Bennett, and M. J. Cook. 2011. Biogeography and conservation of freshwater mussels (Bivalvia: Unionidae) in Texas: Patterns of diversity and threats. *Diversity and Distributions* 17: 393-407.
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## Presentations

(presentations made by co-authors are not included, find them in the next list below):

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Burlakova L. E., and A. Y. Karatayev. The spread of *Dreissena* in Belarussian lakes and its effect on trophic and taxonomy structure of communities of bottom invertebrates. International Conference on Problems of the Conservation of the Biological Diversity of Belarus. October 1993. Minsk, Belarus. (Submitted paper) (in Russian).

Burlakova L. E., and A. Y. Karatayev. The filtration activity of *Dreissena* and its influence on the trophic structure of planktonic and benthic invertebrates. 6<sup>th</sup> International Meeting on the Project “Species and their Productivity within their Range” UNESCO program “Man and Biosphere.” November 23-26, 1993. St. Petersburg, Russia. (Submitted paper) (in Russian).

Burlakova L. E., and A. Y. Karatayev. The spread of *Dreissena* in Belarussian lakes. 7<sup>th</sup> Zoological Conference. September 1994. Minsk, Belarus. (Submitted poster) (in Russian).

Burlakova, L. Growth and reproduction of zebra mussel under different conditions. Center for Limnology, University of Wisconsin – Madison. February 1996. Madison, Wisconsin. (Invited seminar) (in English).

Burlakova, L., and A. Karatayev. Reproduction and dynamics of zebra mussel larvae in different water bodies. 6<sup>th</sup> International Zebra Mussel and Aquatic Nuisance Species Conference. March 5-7, 1996. Detroit, Michigan. (Submitted paper) (in English).

Burlakova, L. E. Reproduction of zebra mussel under different abiotic conditions. 62<sup>nd</sup> Annual Meeting of American Malacological Union. June 29, 1996. Chicago, Illinois. (Submitted paper) (in English).

Burlakova, L. Density and biomass of zebra mussel populations under different abiotic conditions. Center for Limnology, University of Wisconsin – Madison. February 1997. Madison, Wisconsin. (Invited seminar) (in English).

Burlakova L. E., and A. Y. Karatayev. Distribution of *Dreissena polymorpha* within and among rivers, lakes, and reservoirs with different abiotic conditions. 7<sup>th</sup> International Zebra Mussel and Aquatic Nuisance Species Conference. January 29, 1997. New Orleans, Louisiana. (Submitted paper) (in English).

Burlakova, L. E., and A. Y. Karatayev. Distribution of *Dreissena polymorpha* within and among rivers, lakes, and reservoirs with different abiotic conditions. Northeast Conference on Nonindigenous Aquatic Species. April 18, 1997. Burlington, Vermont. (Submitted paper) (in English).

Burlakova, L. Reproduction and growth of zebra mussels. Seminar sponsored by the Green Bay Metropolitan Sewerage District, UW-Sea Grant Program and UW-Green Bay. March 27, 1997. Green Bay, Wisconsin. (Invited seminar) (in English).

Burlakova, L. Biology and ecology of zebra mussel in Belarus. New York Museum Biological Survey Seminar. April 4, 1997. Albany, New York. (Invited seminar) (in English).

Burlakova, L. E. Ecology of *Dreissena polymorpha* (Pallas) and its role in structure and function of aquatic ecosystems. Biology Faculty, Belarusian State University. December 1997. Minsk, USSR. (Invited seminar) (in Russian).

Burlakova, L. E., A. Y. Karatayev, and D. P. Molloy. Field and laboratory studies of zebra mussel infection by the ciliate *Conchophthirus acuminatus* in the Republic of Belarus. 8<sup>th</sup> International Zebra Mussel and Aquatic Nuisance Species Conference. March 16-19, 1998. Sacramento, California. (Submitted paper) (in English).

Burlakova, L. E. Ecology of *Dreissena polymorpha* (Pallas) and its role in structure and function of aquatic ecosystems. Zoology Institute of Belarussian Academy of Sciences. April 1996. Minsk, USSR. (Invited seminar) (in Russian).

Burlakova, L. E., A. Y. Karatayev, V. M. Samoilenko, V. F. Ikonnikov, G. G. Vezhnovets, Z. K. Kartashevich, and I. A. Rudakovskiy. Information System "Limnoflora-Limnofauna 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. (Submitted paper) (in Russian).

Burlakova L. E., A. Y. Karatayev, and D. K. Padilla. The impact of *Dreissena polymorpha* (Pallas) invasion on unionids. 16<sup>th</sup> Baltic Marine Biologists Symposium. June 21-26, 1999. Klaipeda, Lithuania. (Submitted paper) (in English).

Burlakova, L. E., and A. Y. Karatayev. Information System on Belarussian lakes. International Symposium "Data Retrieval Systems in Biodiversity Research." May 1999. St. Petersburg, Russia. (Submitted paper) (in Russian).

Burlakova, L. E. Spread and development of *Dreissena* in Naroch lakes. International Conference on Lake Ecosystems. September 20-25, 1999. Naroch - Minsk, Belarus. (Submitted paper) (in Russian).

Burlakova, L. E. The spread of *Dreissena* in Belarussian lakes. International Conference on Aquatic Ecosystems. November 25-26, 1999. Minsk, Belarus (Submitted paper) (in Russian).

Burlakova L. E., A. Y. Karatayev, and D. K. Padilla. Patterns of spread of the Zebra Mussel: 200 years of continuing invasion in Belarus. 21<sup>st</sup> International Symposium of the North American Lake Management Society, "2001: A Lake Odyssey – Bridging the Gaps Between Science, Policy and Practice." November 7-9, 2001, Madison, Wisconsin.

Burlakova L. E., D. P. Molloy, A. Y. Karatayev, D. A. Mayer, and M. J. Gaylo. Evaluation of *Pseudomonas fluorescens* to protect Unionids from zebra mussel infestation. 11<sup>th</sup> International Conference on Aquatic Nuisance Species. February 25 - March 1, 2002. Alexandria, Virginia.

Burlakova, L., A. Karatayev, and D. Padilla. Patterns of spread of the Zebra Mussel: 200 Years of continuing invasion in Belarus. Invited talk at the Cornell University Biological Field Station, Bridgeport, New York. July 9, 2003.

Burlakova L., A. Karatayev, and D. Padilla. Functional Changes in Freshwater Benthic Communities after *Dreissena* Invasion. The Comparative Roles of Suspension Feeders in Ecosystems, NATO Advanced Research Workshop. October 4-9, 2003. Nida, Lithuania.

Burlakova, L. E., A. Y. Karatayev, and R. G. Howells. Factors limiting distribution of unionids in small lakes in Texas. 107<sup>th</sup> Annual Meeting of the Texas Academy of Sciences. March 4-6, 2004. Kerrville, Texas.

Burlakova, L., and A. Y. Karatayev. Survey of benthic macroinvertebrates at Texas Army National Guard Facilities Camp Maxey and Camp Swift. 2<sup>nd</sup> Annual Texas National Guard Natural Resources Conference, May 14-16, 2004. Austin, Texas. Oral presentation.

Burlakova, L. E., A. Y. Karatayev, and D. K. Padilla. Functional changes in freshwater benthic communities after *Dreissena polymorpha* (Pallas) invasion. 13<sup>th</sup> International Conference on Aquatic Nuisance Species. September 20-24, 2004. Ennis, Ireland.

Burlakova, L. E., A. Y. Karatayev, and D. K. Padilla. Distribution and dynamics of *Dreissena polymorpha* within and among lakes: 12 Years of observations. 13<sup>th</sup> International Conference on Aquatic Nuisance Species. September 20-24, 2004. Ennis, Ireland.

Howells, R. G., L. E. Burlakova, and A. Y. Karatayev. Channeled Applesnail: current US distribution and potential threat to coastal ecosystems and agriculture. 13<sup>th</sup> International Conference on Aquatic Nuisance Species. September 20-24, 2004. Ennis, Ireland.

Burlakova, L. E., and A. Y. Karatayev. Density and growth rate of freshwater mussels in Texas ponds. 108<sup>th</sup> Annual Meeting of the Texas Academy of Sciences. March 3-5, 2005. Edinburg, Texas.

Burlakova, L. E., A. Y. Karatayev, D. K. Padilla, and D. Boltovskoy. Exotic freshwater bivalves as ecosystem engineers. 97<sup>th</sup> Annual Meeting of National Shellfisheries Association. April 10-14, 2005. Philadelphia, Pennsylvania.

Burlakova, L. E., A. Y. Karatayev, and R. G. Howells. Spatial distribution, density and growth rate of freshwater mussels in Texas ponds. 97<sup>th</sup> Annual Meeting of National Shellfisheries Association. April 10-14, 2005. Philadelphia, Pennsylvania.

Burlakova, L. E., A. Y. Karatayev, and D. L. Bennett. Freshwater mussels Unionidae in Texas: trends in diversity. 109<sup>th</sup> Annual Meeting of the Texas Academy of Sciences. March 3-5, 2006. Beaumont, Texas.

Burlakova, L. E., A. Y. Karatayev, and D. L. Bennett. Diversity and distribution of unionid bivalves in Texas. 98<sup>th</sup> Annual Meeting of National Shellfisheries Association. March 2006. Monterey, California.

Burlakova, L. E., A. Y. Karatayev, D. Hollas, and L. Cartwright. Channeled-type applesnails: current distribution, densities and potential threat to natural ecosystems and agriculture. 98<sup>th</sup> Annual Meeting of National Shellfisheries Association. March 2006. Monterey, California.

Burlakova, L. E., A. Y. Karatayev, D. Hollas, and L. Cartwright. Applesnail *Pomacea canaliculata*-complex: distribution, density, population dynamics in southeastern Texas and potential threat to rice industry and coastal ecosystems. 14<sup>th</sup> International Conference on Aquatic Nuisance Species. May 2006. Key Biscayne, Florida.

Burlakova, L. E. Current Research Projects: Benthic Diversity and Aquatic Invasive Species. July 2006. Naroch Biological Station, Naroch, Belarus.

Burlakova, L. E., A. Y. Karatayev, I. Hung, K. Nichol, and A. Camp. Invasive applesnail *Pomacea insularum*: distribution, density, feeding, population dynamics and potential threat to coastal ecosystems and rice industry. Eighth Biennial State of the Bay Symposium "Charting the Course to 2015: People, the Bay, and the Future." January 23-25, 2007. Galveston, Texas.

Burlakova, L. E., A. Y. Karatayev, D. Bennett and M. Cook. Diversity of unionid bivalves within major Texas river basins. Big Thicket Science Conference. March 22-25, 2007. Beaumont, Texas.

Burlakova, L. E. Invasive applesnail *Pomacea insularum*: What have we learned after 3 years of study? Invited Seminar. April 13, 2007. University of Florida/IFAS/Department of Fisheries and Aquatic Sciences, Gainesville, Florida.

Burlakova, L. E., A. Y. Karatayev, Bennett, D. B., and M. J. Cook. Diversity, ecosystem functions, and major threats to freshwater mussels (Unionidae) in Texas. South Central Regional Chapter (Setac) and Texas River and Reservoir Management Society (Trrms) Joint Meeting. May 17-19, 2007. Nacogdoches, Texas.

Burlakova, L. E. *Pomacea insularum*: spread, distribution, feeding and population dynamics in Texas. Invited Seminar. June 13, 2007. University of Wisconsin – Madison, Center for Limnology, Trout Lake Station, Wisconsin.

Burlakova, L. E., A. Y. Karatayev, I. Hung, K. Nichol, and D. Padilla. Distribution, density, and population dynamics of invasive applesnail *Pomacea insularum* in Southeast Texas. 15<sup>th</sup> International Conference on Aquatic Nuisance Species. September 2007. Nijmegen, Netherlands.

Burlakova, L. E. Analysis of Benthic Communities using Non-metric Multivariate Methods in PRIMER software. Great Lakes Center and Biology Department Seminar. December 6, 2007. Buffalo, New York.

Burlakova, L. E., A. Y. Karatayev, and V. A. Karatayev. The effect of zebra mussel invasion on benthic communities of Wisconsin lakes and consequences for ecosystem functioning. 30<sup>th</sup> Wisconsin Lakes Convention. April 17-19, 2008. Green Bay, Wisconsin.

Burlakova, L. E., and A. Y. Karatayev. The effect of zebra mussel invasion on benthic communities in North American and European Lakes. IAGLR's 51<sup>st</sup> Annual Conference on Great Lakes Research (The International Association for Great Lakes Research). May 19-23, 2008. Trent University, Peterborough, Ontario, Canada.

Burlakova, L. E., A. Y. Karatayev, J. M. Vander Zanden, and R. C. Lathrop. Temporal and spatial variability in zoobenthos: application to long-term community changes. 2008 American Society of Limnology and Oceanography Summer Meeting. June 8-13, 2008. St. John's, Newfoundland and Labrador, Canada.

Burlakova, L. E., A. Y. Karatayev, J. M. Vander Zanden, and R. C. Lathrop. Temporal and spatial variability in zoobenthos: application to long-term community changes in Lake Mendota. Invited talk at the Cornell University Biological Field Station, Bridgeport, New York. June 17, 2008.

Burlakova, L. E., A. Y. Karatayev, and V. A. Karatayev. Effect of invasive bivalves *Dreissena polymorpha* and *Limnoperna fortunei* on benthic communities. 16<sup>th</sup> International Conference on Aquatic Nuisance Species. April 19-23, 2009. Montreal, Canada.

Burlakova, L. E., A. Y. Karatayev, D. Boltovskoy, V. A. Karatayev, D. Cataldo, and F. Sylvester. *Limnoperna fortunei*: The new potential invader to the Great Lakes. 52<sup>nd</sup> Annual Conference on Great Lakes Research. The International Association for Great Lakes Research. May 18-22, 2009. Toledo, Ohio.

Burlakova, L. E., and A. Y. Karatayev. SWG-funded survey of freshwater mussels Unionidae in Texas: long-term trends in diversity and status of rare and endemic species. Invited talk at the Texas Parks and Wildlife Department, Austin, Texas. May 4, 2009.

Burlakova, L. E., A. Y. Karatayev, V. A. Karatayev, and M. May. Survey of freshwater molluscs in Texas: new discoveries. 10<sup>th</sup> Annual 2009 Faculty and Staff Research and Creativity Fall Forum, Buffalo State College, Buffalo, New York. October 29, 2009. Poster.

Burlakova, L. E., A. Y. Karatayev, D. N. Hollas, R. Ngoen-klan, M. Perrelli, and K. Irvine. Spread of aquatic invasive species: survey of applesnail *Pomacea insularum* in southeastern Texas. 10<sup>th</sup> Annual 2009 Faculty and Staff Research and Creativity Fall Forum, Buffalo State College, Buffalo, New York. October 29, 2009. Poster.

Burlakova, L. E., and A. Y. Karatayev. Unionidae diversity and rarity in Texas. The Texas Parks and Wildlife Department Freshwater Mussel Meeting. January 7, 2010. Invited Talk.

Burlakova, L. E., A. Y. Karatayev, C. Pennuto, S. E. Mastitsky, M. M. Hajduk, C. P. Basiliko, and J. Conroy. Dominance of exotic invertebrates changes the structure of the Lake Erie benthic

community. 53<sup>rd</sup> Annual Conference on Great Lakes Research. The International Association for Great Lakes Research. May 17-21, 2010. Toronto, Ontario, Canada.

Burlakova, L. E., A. Y. Karatayev, V. A. Karatayev, and M. E. May. Patterns of diversity, rarity and endemism: conservation priorities for freshwater bivalves (Fam. Unionidae) in Texas. 2010 American Association of Limnology and Oceanography ASLO/NABS Summer Meeting. June 6-10. 2010, Santa Fe, New Mexico.

Burlakova, L. E., A. Y. Karatayev, and C. M. Pennuto. Exotic invertebrates alter benthic community in the Lake Erie. 17<sup>th</sup> International Conference on Aquatic Nuisance Species. August 29 - September 2, 2010. San Diego, California.

Burlakova, L. E. Endemic freshwater mussels (Bivalvia: Unionidae): contribution to community uniqueness, effect of habitat alteration, and conservation priorities in Texas. Evolution, Ecology and Behavior Graduate Program, University at Buffalo, Buffalo, New York. September 17, 2010. (Invited Seminar).

Burlakova, L. E. A century of change in a lake benthic community (Lake Mendota, Wisconsin). NOAA Great Lakes Environmental Research Laboratory. Ann Arbor, Michigan. November 12, 2010. (Invited Seminar).

Burlakova, L. E., A. Y. Karatayev, V. A. Karatayev, M. E. May, D. L. Bennett, and M. J. Cook. Biogeography and conservation of freshwater mussels (Bivalvia: Unionidae): drivers of diversity and threats. 7<sup>th</sup> Biennial Symposium of the Freshwater Mollusk Conservation Society. April 11-15, 2011. Louisville, Kentucky.

Burlakova, L. E., F. E. Lucy, A. Y. Karatayev, S. E. Mastitsky, and D. T. Zanatta. *Dreissena* impacts on Unionida: A synthesis of trends in North America and Europe. 54<sup>th</sup> Annual Conference on Great Lakes Research. May 30 – June 3, 2011. Duluth, Minnesota.

Burlakova, L. E., and A. Y. Karatayev. Biogeography and conservation of freshwater mussels (Bivalvia: Unionidae) in Texas. IV International Scientific Conference "Lake Ecosystems: Biological Processes, Anthropogenic Transformation, Water Quality." September 12-17, 2011. Minsk-Naroch, Belarus.

Burlakova, L. E., B. L. Tulumello, A. Y. Karatayev, and D. T. Zanatta. *Dreissena* impacts on Unionidae: recent trends in Lake Erie. 55<sup>th</sup> Annual Conference on Great Lakes Research. May 13-17, 2012. Cornwell, Ontario, Canada.

Burlakova, L. E. *Dreissena* impacts on Unionidae: general trends in North America and Europe and recent findings from Lake Erie and St. Clair. Invited talk at the Cornell University Biological Field Station, Bridgeport, New York. July 20, 2012.

Burlakova, L., and A. Karatayev. Biogeography and conservation of freshwater mussels (Bivalvia: Unionidae) in Texas: drivers of diversity and threats. International Meeting on Biology and Conservation of Freshwater Bivalves, Braganca, Portugal. September 4-7, 2012.

Burlakova, L., A. Karatayev, D. Zanatta, B. Tulumello, F. Lucy, and S. Mastitsky. *Dreissena* impacts on Unionidae: general trends in North America and Europe and recent findings from Lake Erie.

International Meeting on Biology and Conservation of Freshwater Bivalves, Braganca, Portugal. September, 4-7, 2012. Poster.

Burlakova, L., A. Karatayev, J. M. Bossenbroek, D. Zanatta, B. L. Tulumello, R. A. Krebs, W. Paterson, and T. Griffith. Unionid community of southern Lake Ontario: locating existing refuges and assessing dreissenid impacts. 8<sup>th</sup> Biennial Symposium of the Freshwater Mollusk Conservation Society. April 10-15, 2013. Guntersville, Alabama.

Burlakova, L. E., A. Y. Karatayev, B. Tulumello, D. Zanatta, F. Lucy, and S. E. Mastitsky. *Dreissena* impacts on Unionidae: general trends in North America and Europe and recent findings from the lower Great Lakes. 18<sup>th</sup> International Conference on Aquatic Invasive Species. April 21-25, 2013. Niagara Falls, Ontario, Canada.

Burlakova, L. E., A. Y. Karatayev, J. Bossenbroek, D. T. Zanatta, B. Tulumello, R. A. Krebs, W. Paterson, and T. Griffith. Assessing unionid refuges and dreissenid impacts in the lower Great Lakes. 56<sup>th</sup> Annual Conference on Great Lakes Research. June 3-6, 2013. West Lafayette, Indiana.

Burlakova, L. E., A. Y. Karatayev, B. Tulumello, D. Zanatta, F. Lucy, and S. E. Mastitsky. *Dreissena* impacts on Unionidae: a synthesis of trends in North America and Europe and recent findings from the lower Great Lakes. World Congress of Malacology. July 21-28, 2013. Ponta Delgada, Azores, Portugal.

Burlakova, L. E., A. Y. Karatayev, C. Pennuto, and C. Mayer. Changes in Lake Erie benthos over the last 50 years: historical perspectives, current status, and main drivers. Seventh Biennial Meeting of the Lake Erie Millennium. The Status of Lake Erie: Management Needs and Research Questions. October 29-31, 2013. University of Windsor, Windsor, Canada.

Burlakova, L. E., and A. Y. Karatayev. Biogeography and conservation of freshwater mussels (Bivalvia: Unionidae): drivers of diversity and threats in Texas. Berry College Biology Seminar, Berry College, Rome, Georgia. February 4, 2014.

Burlakova, L. E., A. Y. Karatayev, C. Pennuto, and C. Mayer. Changes in Lake Erie benthos over the last 50 years: historical perspectives, current status, and main drivers. 57<sup>th</sup> Annual Conference on Great Lakes Research. May 26-30, 2014. Hamilton, Ontario, Canada.

Burlakova, L. E., B. L. Tulumello, A. Y. Karatayev, R. A. Krebs, D. W. Schloesser, W. L. Paterson, T. A. Griffith, M. W. Scott, T. Crail, and D. T. Zanatta. Changed impact of *Dreissena spp.* on native Unionidae in the lower Great Lakes: dreissenid species matters. 15<sup>th</sup> World Lake Conference. September 1-5, 2014. Perugia, Italy.

Burlakova, L. E., A. Y. Karatayev, and R. P. Barbiero. Dynamics of the Oligochaete Trophic Index in Great Lakes, 1997-2011. Invited talk presented February 12, 2015, at EPA Great Lakes National Program Office, Chicago, Illinois.

Burlakova, L. E., A. Y. Karatayev, B. L. Tulumello, D. T. Zanatta, R. A. Krebs, D. W. Schloesser, F. E. Lucy, and S. E. Mastitsky. Impacts of dreissenid invasion on native unionid communities: a synthesis of trends in North America and Europe. ASLO Aquatic Sciences Meeting. February 2015. Granada, Spain.



Burlakova, L. E., A. Y. Karatayev, R. P. Barbiero, and S. E. Daniel. Integrating environmental effects of multiple stressors in the Great Lakes: dynamics of Oligochaete Trophic Index. 58<sup>th</sup> Annual Conference on Great Lakes Research. May 25-29, 2015. Burlington, Vermont.

Burlakova, L. E., A. Y. Karatayev, and R. P. Barbiero. Dynamics of the Oligochaete Trophic Index in Great Lakes, 1997-2011. Invited talk presented February 12, 2015, at EPA Great Lakes National Program Office, Chicago, Illinois.

Burlakova, L. E., A. Y. Karatayev, S. Daniel, and R. P. Barbiero. Integrating environmental effects of multiple stressors in the Great Lakes: drivers and dynamics of Oligochaete Trophic Index. Invited talk at the Cornell University Biological Field Station, Bridgeport, New York. June 18, 2015.

Burlakova, L. E., A. Y. Karatayev, S. Daniel, and R. P. Barbiero. Integrating environmental effects of multiple stressors in the Great Lakes: drivers and dynamics of Oligochaete Trophic Index. Invited talk at the Case Western Reserve University Seminar, Cleveland, Ohio. July 13, 2015.

Burlakova, L. E., A. Y. Karatayev, B. L. Tulumello, R. Krebs, D. Zanatta, D. W. Schloesser, W. L. Paterson, T. Griffith, M. W. Scott, and T. Crail. Competitive replacement of invasive congeners may relax impact on native species: interactions among zebra, quagga, and native unionid mussels. Ecological Society of America. 100<sup>th</sup> Annual Meeting. August 9-14, 2015. Baltimore, Maryland.

Burlakova, L. E., A.Y. Karatayev, V.A. Karatayev, T. Miller, and M. F. Perrelli. Conservation of endangered unionids in high-flowing fragmented rivers: Historical changes and metapopulation dynamics of the Rio Grande endangered endemic *Popenaias popeii*. Second International Meeting on Biology and Conservation of Freshwater Bivalves. Buffalo, New York. October 4-8, 2015.

Burlakova, L. E., A. Y. Karatayev, and T. Miller. Long-term decline of *Popenaias popeii* in the Rio Grande drainage, Texas. Invited talk at the Expert Meeting for Species Status Assessments under the Endangered Species Act. U.S. Fish and Wildlife Service, Austin, Texas. October 26-27, 2015.

Burlakova, L. E., A. Y. Karatayev, and R. P. Barbiero. Spatial and temporal changes in Great Lakes benthic communities, 1997-2013. Invited talk presented February 17, 2016, at EPA Great Lakes National Program Office, Chicago, Illinois.

Burlakova, L. E., R. P. Barbiero, A. Y. Karatayev, and S. E. Daniel. What's on the bottom? Spatial gradients and temporal changes in Great Lakes benthic communities. 59<sup>th</sup> Annual Conference on Great Lakes Research. June 6-10, 2016. Guelph, Ontario, Canada.

Burlakova, L., A. Karatayev, S. Daniel, and R. Barbiero. Benthic community of Laurentian Great Lakes: spatial gradients and temporal changes. XXXIII Congress of the International Society of Limnology. July 31 – August 5, 2016. Turin, Italy.

Burlakova, L., A. Karatayev, and S. Daniel. Long-Term Benthic Monitoring of Laurentian Great Lakes. 17<sup>th</sup> Annual Faculty/Staff Research and Creativity Fall Forum, Buffalo State College, Buffalo, New York. October 27, 2016. (poster).

Burlakova, L. E., R. P. Barbiero, A. Y. Karatayev, and S. E. Daniel. Factors affecting spatial and temporal patterns in benthic communities across the Laurentian Great Lakes. American Society of

Limnology and Oceanography 2017 Aquatic Sciences Meeting. Honolulu, Hawaii. February 27 - March 3, 2017.

Burlakova, L. E., and A. Y. Karatayev. Interactions between unionids and dreissenids: Lessons learned. 10<sup>th</sup> Biennial Symposium of the Freshwater Mollusk Conservation Society. March 26-30, 2017. Cleveland, Ohio.

Burlakova, L. E., K. E. Kovalenko, K. L. Schmude, R. Barbiero, A. Y. Karatayev, and B. M. Lesht. Developing water quality indices based on Great Lakes benthos: traditional and modeling approaches. 60<sup>th</sup> Annual Conference on Great Lakes Research. May 15-19, 2017. Detroit, Michigan.

Burlakova, L. E., A. Y. Karatayev, K. Mehler, V. A. Karatayev, and E. Hinchey. Spatial patterns of emerging mussel reefs in the Laurentian Great Lakes and consequences for ecosystems. Ecological Society of America 102<sup>nd</sup> Annual Meeting. August 6-11, 2017. Portland, Oregon.

Burlakova, L. E., A. Y. Karatayev, and S. Daniel. Effect of *Dreissena* on benthos of Laurentian Great Lakes. 20<sup>th</sup> International Conference on Aquatic Invasive Species. October 22-26, 2017. Fort Lauderdale, Florida.

Burlakova, L. E. The impact of *Dreissena* on native unionid bivalves in Europe and North America: lessons learned. 2<sup>nd</sup> Biennial Canadian Freshwater Mollusc Research Meeting. Canada Centre for Inland Waters, Burlington, Ontario, Canada. November 8-9, 2017. Plenary talk.

Burlakova, L., A. Y. Karatayev, D. Schloesser, and M. Stapanian. Trends in Lake Erie benthos: 1930-2014. 61<sup>st</sup> Annual Conference on Great Lakes Research. June 18-22, 2018. Toronto, Ontario, Canada.

Burlakova, L. E., R. P. Barbiero, A. Y. Karatayev, S. E. Daniel, and E. K. Hinchey. Long-term biological monitoring of the Laurentian Great Lakes: spatial and temporal patterns in benthic communities. 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.

Burlakova, L., A. Karatayev, S. Daniel, R. Barbiero, K. Mehler, E. Hinchey, and V. Karatayev. Decadal trends in benthic community of the Laurentian Great Lakes revealed by long-term monitoring. Association for the Sciences of Limnology and Oceanography 2019 Aquatic Sciences Meeting. February 25 - March 1, 2019. San Juan, Puerto Rico.

Burlakova, L., A. Karatayev, S. Daniel, R. Barbiero, K. Mehler, and E. Hinchey. Decadal trends in benthic community of the Laurentian Great Lakes. Invited Seminar, University Laval, Quebec, Canada. May 2, 2019.

Burlakova L., A. Karatayev, S. Bayba, S. Daniel, K. Mehler, A. Scofield, and E. Hinchey Malloy. Facilitative and competitive effects of *Dreissena* on benthos of Laurentian Great Lakes. 62<sup>nd</sup> Annual Conference on Great Lakes Research. June 10-14, 2019. Brockport, New York.

Burlakova, L., A. Karatayev, A. Hrycik, S. Daniel, K. Mehler, L. Rudstam, J. Watkins, R. Dermott, J. Scharold, A. Elgin, and T. Nalepa. Six decades of Lake Ontario ecological history according to benthos. State of Lake Ontario, Virtual Meeting. March 9-11, 2021.

Burlakova, L., A. Karatayev, S. Daniel, K. Mehler, A. Elgin, and T. Nalepa. Lake Huron Benthos: Current State, Long-Term Trends, and Information Gaps, at the Lake Huron Partnership Working Group. January 28, 2021.

Burlakova, L., K. Mehler, and A. Karatayev. Trends in Lake Superior benthos with particular emphasis on the amphipod *Diporeia spp.*, at Lake Superior Partnership Working Group. March 3, 2021.

Burlakova, L. Zebra and Quagga Mussel Impacts on Native Mussels. Invasive Mussel Collaborative Webinar. January 13, 2021.

Burlakova, L. E., A. Y. Karatayev, A. Hrycik, S. E. Daniel, K. Mehler, L. Rudstam, J. Watkins, and A. K. Elgin. Five decades of changes in Lake Ontario benthos. State of Lake Ontario Conference. March 9-11, 2021. Virtual.

Burlakova, L. E., and A. Y. Karatayev. Exploring Great Lakes Benthoscapes: Can we visually delineate freshwater benthic communities? 64<sup>th</sup> annual Conference on Great Lakes Research. May 18-21, 2021. Virtual.

Burlakova, L. E., A. Y. Karatayev, K. Mehler, S. Daniel, J. Nestlerode, M. Pawlowski, E. Hinchey, and M. Wick. Exploring Great Lakes benthoscapes: can we visually delineate freshwater benthic communities? Coastal & Estuarine Research Federation 2021 Conference. November 2021. Virtual.

Burlakova, L. E., A. Y. Karatayev, K. Mehler, and E. Hinchey. Lake Erie Monitoring: Can video imagery help delineate benthic habitats? State of Lake Erie Conference. March 16-18, 2022. Cleveland, Ohio.

Burlakova, L. E., A. Y. Karatayev, K. Mehler, and E. Hinchey. Exotic dreissenids transform Great Lakes benthoscapes. 22<sup>nd</sup> International Conference on Aquatic Invasive Species. Oostende, Belgium. April 18-22, 2022. Virtual.

Burlakova, L. E., A. Y. Karatayev, A. R. Hrycik, S. E. Daniel, K. Mehler, L. G. Rudstam, J. M. Watkins, R. Dermott, J. Scharold, A. K. Elgin, T. F. Nalepa, E. K. Hinchey, and S. J. Lozano. Six decades of Lake Ontario ecological history according to benthos. Joint Aquatic Sciences Meeting. May 14-20, 2022. Grand Rapids, Michigan.

Burlakova, L. E., A. Y. Karatayev, K. Mehler, and E. Hinchey. A picture is worth a thousand worms? exploring Great Lakes benthoscapes (Virtual). Joint Aquatic Sciences Meeting. May 14-20, 2022. Grand Rapids, Michigan.

### Selected Published Abstracts:

Karatayev, A. Y., P. A. Mitrakhovich, G. G. Vezhnovets, and L. E. Burlakova. Comprehensive study of ecosystem of a lake subject to various forms of human activity. Abstracts of 6<sup>th</sup> Congress of the All-Union Hydrobiological Society. 1991. Murmansk, USSR. pp. 174-175. (in Russian).

Karatayev, A. Y., and L. E. Burlakova. The changes in trophic structure of planktonic and benthic communities of invertebrates as a method to control the lake ecosystem. Methods of study and using of aquatic ecosystems. Abstracts of All-Union Conference. 1991. Riga, Latvia. pp. 58-59. (in Russian).

Karatayev, A. Y., I. A. Rudakovskiy, and L. E. Burlakova. Radioecological situation in lakes of Mogilev Region. Abstracts of International Conference "Science and Medicine - for Chernobyl." November 10-13, 1993. Minsk, Belarus. pp. 136-137. (in Russian).

Karatayev, A. Y., and L. E. Burlakova. Development of *Dreissena* in lakes of various biolimnological types. Abstracts of the 1<sup>st</sup> International Conference. Ryazan, Russia. 1994. Published. Ryazanskij State University. (in Russian).

Burlakova, L. E. The effect of zebra mussels on the chemical composition of water (results of field studies and laboratory experiments). Abstracts of the 1st International Conference, Ryazan, Russia. 1994. Published. Ryazanskij State University. (in Russian).

Burlakova, L. The relationship between *Dreissena* and other benthic animals. Abstracts of the 5<sup>th</sup> International Zebra Mussel and other Nuisance Aquatic Organisms Conference. February 14-21, 1995. Toronto, Ontario, Canada. p. 109.

Molloy, D. P., A. Karatayev, L. Burlakova, D. Kurandina, and S. Fokin. Ciliate parasites of European Zebra Mussels. Abstracts of the 5<sup>th</sup> International Zebra Mussel and other Nuisance Aquatic Organisms Conference. February 14-21, 1995. Toronto, Ontario, Canada. p. 92. (in English)

Karatayev, A., and L. Burlakova. Zebra mussel growth under different conditions. Abstracts of the 6<sup>th</sup> International Zebra Mussel and other Aquatic Nuisance Species Conference. March 5-7, 1996. Detroit, Michigan. p. 74.

Karatayev, A. Y., and L. E. Burlakova. Growth rates of the Zebra mussel under different abiotic conditions. Abstracts of the 62<sup>nd</sup> Annual Meeting of American Malacological Union. June 29 - July 3, 1996. Chicago, Illinois. p.41.

Karatayev, A. Y., and L. E. Burlakova. History and current geographic pattern and rate of spread of *Dreissena polymorpha* in Belarus, Former Soviet Union. Abstracts of the 7<sup>th</sup> International Zebra Mussel and Aquatic Nuisance Species Conference. January 28-31, 1997. New Orleans, Louisiana. p. 11.

Padilla, D. K., A. Y. Karatayev, and L. E. Burlakova. Identifying macro-variable indicators of the invasibility of zebra mussels. Abstracts of the 7<sup>th</sup> International Zebra Mussel and Aquatic Nuisance Species Conference. January 28-31, 1997. New Orleans, Louisiana. p. 101.

Karatayev, A. Y., and L. E. Burlakova. History and current geographic pattern, and rate of spread of *Dreissena polymorpha* in Belarus, Former Soviet Union. Abstracts of Second Northeast Conference on Nonindigenous Aquatic Species in Burlington. April 18-19, 1997. Burlington, Vermont. p.43.

Molloy, D. P., A. Y. Karatayev, L. E. Burlakova, D. P. Kurandina, and F. Laruelle. Natural enemies of zebra mussels: predators, parasites and ecological competitors. Abstracts of the 2<sup>nd</sup> Northeast Conference on Nonindigenous Aquatic Species in Burlington. April 18-19, 1997. Burlington, Vermont. p.42.

Baier, R. E., D. P. Molloy, A. E. Meyer, A. Y. Karatayev, L. E. Burlakova, A. A. Ovcharenko, D. P. Kurandina, and T. V. Koroleva. Effects of substratum properties on zebra mussel colonization. Abstracts of the 40<sup>th</sup> Annual Conference on Great Lakes Research, 1997.

Molloy, D. P., A. Y. Karatayev, L. E. Burlakova, M. A. Ovcharenko, D. P. Kurandina, and T. V. Koroleva. Effects of parasitism on zebra mussel population dynamics. Abstracts of the 40<sup>th</sup> Annual Conference on Great Lakes Research, 1997.

Karatayev, A. Y., D. P. Molloy, L. E. Burlakova, D. P. Kurandina, and M. A. Ovcharenko. Studies of *Dreissena* parasites in the Republic of Belarus, Ukraine, and Russia. Abstracts of the 8<sup>th</sup> International Zebra Mussel and Aquatic Nuisance Species Conference. March 16-19, 1998. Sacramento, California.

Volkova, L. K., A. Y. Karatayev, and L. E. Burlakova. Effect of *Dreissena* on ichthyopatological status of Belarussian lakes. Abstracts of International Conference "Ecology and Youth." 1998. Gomel, Belarus. pp. 81-82. (in Russian)

Burlakova, L. E., A. Y. Karatayev, and D. K. Padilla. The impact of zebra mussels on unionids in Belarus: what we have after 200 years of *Dreissena* invasion? Abstracts of the 9<sup>th</sup> International Zebra Mussel and Aquatic Nuisance Species Conference. April 26-30, 1999. Duluth, Minnesota. p.145.

Karatayev, A. Y., L. E. Burlakova, and V. M. Samoilenko. Factors affecting macrozoobenthos of Belarussian lakes. International Conference on Lake Ecosystems. September 20-25, 1999. Naroch - Minsk, Belarus. (in Russian).

Karatayev, A. Y., L. E. Burlakova, P. A. Mitkhovich, G. G. Vezhnovets, and E. N. Makritskaya. 1999. Some factors affecting zooplankton of Belarussian lakes. International Conference on Aquatic Ecosystems. November 25-26, 1999. Minsk, Belarus. (in Russian).

Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. Physical factors that limit the distribution and abundance of *Dreissena polymorpha* (Pall.). Abstracts of the 9<sup>th</sup> International Zebra Mussel and Aquatic Nuisance Species Conference. April 26-30, 1999. Duluth, Minnesota. p.152-153.

Molloy, D. P., A. Y. Karatayev, L. E. Burlakova, M. A. Ovcharenko, D. P. Kurandina, J. F. Morado, and L. Giamberini. The natural enemies of zebra and quagga mussels - an update. Abstracts of the 9<sup>th</sup> International Zebra Mussel and Aquatic Nuisance Species Conference. April 26-30, 1999. Duluth, Minnesota. p. 83.

Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. The ecological effect of *Dreissena polymorpha* (Pallas) invasion. Abstracts of 16<sup>th</sup> Baltic Marine Biologists Symposium. June 21-26, 1999. Klaipeda, Lithuania. p.23. (in English).

Karatayev A. Y., L. E. Burlakova, D. P. Molloy and L. K. Volkova. Endosymbionts of *Dreissena polymorpha* (Pallas) in Belarus. Abstracts of 16<sup>th</sup> Baltic Marine Biologists Symposium. June 21-26, 1999. Klaipeda, Lithuania. p.66. (in English).

Karatayev A., L. Burlakova, and D. Padilla. Abiotic factors that limit the distribution and abundance of Zebra Mussel (*Dreissena polymorpha*). Abstracts of the International Conference on Lake Ecosystems. September 20-25, 1999. Naroch - Minsk, Belarus. p. 86. (in English).

Burlakova, L. E., and A. Y. Karatayev. The prediction of the zebra mussel spread in Belarus. Abstracts of the 8<sup>th</sup> Zoological Conference. March 29, 2000. Minsk, Belarus. Minsk, "Pravo i Economica" Publisher. pp. 215-217. (in Russian).

Karatayev, A. Y., L. E. Burlakova, G. G. Vezhnovets, I. A. Rudakovskiy, N. M. Lisovskaya, and E. N. Makritskaya. Developing the Checklists "Limnofauna of Belarus." Abstracts of the 8<sup>th</sup> Zoological Conference. March 29, 2000. Minsk, Belarus. Minsk, "Pravo i Economica" Publisher. pp. 232-234. (in Russian).

Karatayev, A. Y., L. E. Burlakova, D. P. Molloy, L. K. Volkova. Parasites and commensals of *Dreissena*: species composition and ecological significance. Abstracts of the 8<sup>th</sup> Zoological Conference. March 29, 2000, Minsk, Belarus. Minsk, "Pravo i Economica" Publisher. pp. 230-231. (in Russian).

Burlakova, L. E., and A. Y. Karatayev. Recent spread of zebra mussels in the Republic of Belarus. Abstracts of the 10<sup>th</sup> International Zebra Mussel and Aquatic Nuisance Species Conference. 2000. Toronto, Ontario, Canada. pp. 65.

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Bennett, D. L., L. E. Burlakova, and A. Y. Karatayev. Trends in diversity and abundance of freshwater unionid bivalves in Texas. South Central Regional Chapter (Setac) and Texas River and Reservoir Management Society (TRRMS) Joint Meeting. May 17-19, 2007. Nacogdoches, Texas.

Cook, M. J., L. E. Burlakova, and A. Y. Karatayev. Distributional survey of freshwater mussels and their habitats in Brazos, San Antonio and Lower Sabine Rivers. South Central Regional Chapter (Setac) and Texas River and Reservoir Management Society (TRRMS) Joint Meeting. May 17-19, 2007. Nacogdoches, Texas.

Nichol, K., L. E. Burlakova, A. Y. Karatayev, and I. Hung. Invasive applesnail *Pomacea insularum*: distribution and spread in Texas. South Central Regional Chapter (Setac) and Texas River and Reservoir Management Society (TRRMS) Joint Meeting. May 17-19, 2007. Nacogdoches, Texas.

Karatayev, V. A., A. Y. Karatayev, L. E. Burlakova, and D. Boltovskoy. Comparing the density and distribution of two invasive bivalves *Limnoperna fortunei* and *Dreissena polymorpha*. South Central Regional Chapter (Setac) and Texas River and Reservoir Management Society (TRRMS) Joint Meeting. May 17-19, 2007. Nacogdoches, Texas.

Karatayev, A. Y., L. E. Burlakova, S. M. Mastitsky, and S. Olenin. Aquatic exotic species in Belarus: Past, Current and Future Invasions. Abstracts of 15<sup>th</sup> International Conference on Aquatic Nuisance Species. September 23-27, 2007. Nijmegen, The Netherlands. P. 33.

Mastitsky, S. E., A. Y. Karatayev, and L. E. Burlakova. Online Database: "Aquatic Invaders of Belarus:" goals and structure. Abstracts of 15<sup>th</sup> International Conference on Aquatic Nuisance Species. September 23-27, 2007. Nijmegen, The Netherlands. P. 106.

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 15<sup>th</sup> International Conference on Aquatic Nuisance Species. September 23-27, 2007. Nijmegen, The Netherlands. P. 178.

Burlakova L. E., A. Y. Karatayev, I. Hung, K. Nichol, and D. Padilla. Distribution, density, and population dynamics of invasive applesnail *Pomacea insularum* in Southeast Texas. Abstracts of 15<sup>th</sup> International Conference on Aquatic Nuisance Species. September 23-27, 2007. Nijmegen, The Netherlands. P. 188.

Burlakova, L. E., and A. Y. Karatayev. Zebra mussel impacts on Wisconsin's lakes: The effect of zebra mussel invasion on benthic communities of Wisconsin lakes and consequences for

ecosystem functioning. 30<sup>th</sup> Wisconsin Lakes Convention. April 17-19, 2008. Green Bay, Wisconsin. P. 27.

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. 30<sup>th</sup> Wisconsin Lakes Convention. April 17-19, 2008. Green Bay, Wisconsin. P. 27.

Burlakova, L. E., and A. Y. Karatayev. The effect of zebra mussel invasion on benthic communities in North American and European lakes. IAGLR's 51<sup>st</sup> Annual Conference on Great Lakes Research (The International Association for Great Lakes Research). May 19–23, 2008. Trent University, Peterborough, Ontario, Canada. P. 19-20.

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 51<sup>st</sup> Annual Conference on Great Lakes Research (The International Association for Great Lakes Research). May 19–23, 2008. Trent University, Peterborough, Ontario, Canada. P. 74.

Burlakova, L. E., A. Y. Karatayev, J. M. Vander Zanden, and R. C. Lathrop. Temporal and spatial variability in zoobenthos: application to long-term community changes. 2008 American Society of Limnology and Oceanography Summer Meeting. June 8-13, 2008. St. John's, Newfoundland and Labrador, Canada.

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. June 8-13, 2008. St. John's, Newfoundland and Labrador, Canada.

Hajduk, M., L. E. Burlakova, S. E. Mastitsky, and A. Y. Karatayev. Unknown threats: an examination of endosymbionts in non-native species. 2009 Great Lakes Research Consortium Student Faculty Conference. March 13-14, 2009. Poster.

Hajduk, M., L. E. Burlakova, S. E. Mastitsky, and A. Y. Karatayev. Hidden invaders: endosymbionts and parasites of non-native species. Great Lakes Day in Albany. Poster Competition, GLRC Poster Session. April 28, 2009. Albany, New York. Poster.

Karatayev, A. Y., V. A. Karatayev, L. E. Burlakova, D. Boltovskoy, and D. Cataldo. Could *Limnoperna fortunei* be worse than *Dreissena polymorpha*? Population density and potential impacts. 16<sup>th</sup> International Conference on Aquatic Nuisance Species. April 19-23, 2009. Montreal, Canada. Poster.

Mastitsky, S. E., M. Hajduk, A. Y. Karatayev, and L. E. Burlakova. Parasites of exotic molluscs in the Lake Erie and Lake Ontario watersheds. 10<sup>th</sup> Annual 2009 Faculty and Staff Research and Creativity Fall Forum, Buffalo State College. October 29, 2009. Buffalo, New York. Poster.

Mastitsky, S. E., E. Snyder, L. E. Burlakova, and A. Y. Karatayev. Case study on the population biology of the New Zealand mud snail in Western New York. 10<sup>th</sup> Annual 2009 Faculty and Staff Research and Creativity Fall Forum, Buffalo State College. October 29, 2009. Buffalo, New York. Poster.

Mastitsky, S. E., L. E. Burlakova, and A. Y. Karatayev. Quagga mussel demonstrates higher growth and survival rates than zebra mussel under experimental conditions. 10<sup>th</sup> Annual 2009 Faculty and

Staff Research and Creativity Fall Forum, Buffalo State College. October 29, 2009. Buffalo, New York. Poster.

Hajduk, M., S. E. Mastitsky, L. E. Burlakova, and A. Y. Karatayev. Assessing potential threats: Parasitological surveys of Great Lakes non-native species. 2010 Great Lakes Research Consortium 20<sup>th</sup> Student Faculty Conference. March 19-20, 2010. Oral presentation. Outstanding Paper Award and a Prize in memory of Dr. Donald Rennie.

Karatayev, V. A., A. Y. Karatayev, L. E. Burlakova, and D. K. Padilla. In spite of *Dreissena r. bugensis* dominance, *D. polymorpha* retains a strong potential to invade from the Great Lakes. 2010 Great Lakes Research Consortium 20<sup>th</sup> Student Faculty Conference. March 19-20, 2010. Oral presentation. Outstanding Paper Award and a Prize in memory of Dr. Donald Rennie.

Hajduk, M. M., S. E. Mastitsky, L. E. Burlakova, and A. Y. Karatayev. Assessing potential threats: Parasitological surveys of Great Lakes non-native species. 20<sup>th</sup> Annual [Great Lakes Research Consortium](#) Conference in SUNY-ESF. March 19-20, 2010. Syracuse, New York. Received Outstanding Student Award in Limnology Session, and a Sea Grant prize in memory of Dr. Donald Rennie.

Karatayev, V. A., A. Y. Karatayev, L. E. Burlakova, and D. K. Padilla. In spite of *Dreissena r. bugensis* dominance, *D. polymorpha* retains a strong potential to invade from the Great Lakes. 20<sup>th</sup> Annual [Great Lakes Research Consortium](#) Conference in SUNY-ESF. March 19-20, 2010. Syracuse, New York. Received Outstanding Student Award in Limnology Session, and a Sea Grant prize in memory of Dr. Donald Rennie.

Hajduk, M. M., S. E. Mastitsky, L. E., Burlakova, and A. Y. Karatayev. Assessing potential threats: parasitological surveys of Great Lakes and Finger Lakes non-native species. Poster. Buffalo State College 2010 Student Research and Creativity Celebration. April 30 – May 1, 2010. Buffalo, New York. Poster.

Karatayev, A. Y., L. E. Burlakova, C. Pennuto, and C. P. Basiliko. Dominance of exotic invertebrates changes the Lake Erie benthic community. 6<sup>th</sup> Biennial Conference of the Lake Erie Millennium Network. April 27-29, 2010. Windsor, Ontario, Canada.

Burlakova, L. E., A. Y. Karatayev, C. Pennuto, S. E. Mastitsky, M. M. Hajduk, C. P. Basiliko, and J. Conroy. Dominance of exotic invertebrates changes the structure of the Lake Erie benthic community. 53<sup>rd</sup> Annual Conference on Great Lakes Research. The International Association for Great Lakes Research. May 17-21, 2010. Toronto, Ontario, Canada.

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. 53<sup>rd</sup> Annual Conference on Great Lakes Research. The International Association for Great Lakes Research. May 17-21, 2010. Toronto, Ontario, Canada.

Pérez-Fuentetaja, A., C. Pennuto, A. Karatayev, L. Burlakova, J. Conroy, J. Kramer, D. Bade, and G. Matisoff. Biological production and nutrient fate in nearshore and offshore Lake Erie. 53<sup>rd</sup> Annual Conference on Great Lakes Research. The International Association for Great Lakes Research. May 17-21, 2010. Toronto, Ontario, Canada.

Mayer, D., A. Pérez-Fuentetaja, K. Nishikawa, H. Shi, M. Gaikowski, D. Aloisi, T. Hubert, M. Gaylo, L. Burlakova, A. Karatayev, M. Clapsadl, T. Brady, J. Luoma, and D. Molloy. Potential to manage the impacts of invasive species on endangered wildlife in the Great Lakes. 53<sup>rd</sup> Annual Conference on Great Lakes Research. The International Association for Great Lakes Research. May 17-21, 2010. Toronto, Ontario.

Hajduk, M. M., S. E. Mastitsky, L. E., Burlakova, and A. Y. Karatayev. Hidden invaders in the Great Lakes: Endosymbionts of non-native species. Poster. 53<sup>rd</sup> Annual Conference on Great Lakes Research. The International Association for Great Lakes Research. May 17-21, 2010. Toronto, Ontario, Canada.

Karatayev, V. A., A. Y. Karatayev, L. E. Burlakova, and D. K. Padilla. Dominance within the lake does not represent invasion potential for dreissenids. Poster. 53<sup>rd</sup> Annual Conference on Great Lakes Research. The International Association for Great Lakes Research. May 17-21, 2010. Toronto, Ontario, Canada.

Burlakova, L. E., A. Y. Karatayev, V. A. Karatayev, and M. E. May. Patterns of diversity, rarity and endemism: conservation priorities for freshwater bivalves (Fam. Unionidae) in Texas. 2010 American Association of Limnology and Oceanography ASLO/NABS Summer Meeting. June 6-10, 2010. Santa Fe, New Mexico.

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 Association of Limnology and Oceanography ASLO/NABS Summer Meeting. June 6-10, 2010. Santa Fe, New Mexico. Abstracts.

Pérez-Fuentetaja, A., C. Pennuto, A. Karatayev, L. Burlakova, J. Conroy, J. Kramer, D. Bade, and G. Matisoff. Poster Presentation. Biological influence on the Nearshore and offshore nutrient dynamics of Lake Erie. 2010 American Association of Limnology and Oceanography ASLO/NABS Summer Meeting. June 6-10, 2010. Santa Fe, New Mexico.

Burlakova, L. E., A. Y. Karatayev, and C. M. Pennuto. Exotic invertebrates alter benthic community in the Lake Erie. 17<sup>th</sup> International Conference on Aquatic Nuisance Species. August 29 - September 2, 2010. San Diego, California.

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*? 17<sup>th</sup> International Conference on Aquatic Nuisance Species. August 29 - September 2, 2010. San Diego, California.

Burlakova, L. E., A. Y. Karatayev, V. A. Karatayev, and M. May. Conservation of freshwater molluscs in Texas. 11<sup>th</sup> Annual 2010 Faculty and Staff Research and Creativity Fall Forum, Buffalo State College. October 2010. Buffalo, New York. Poster.

Karatayev, V. A., A. Y. Karatayev, and L. E. Burlakova. In spite of *Dreissena rostriformis bugensis* dominance, *D. polymorpha* retains a strong potential to invade from the Great Lakes. 11<sup>th</sup> Annual 2010 Faculty and Staff Research and Creativity Fall Forum, Buffalo State College. October 2010. Buffalo, New York. Poster.

Drake, R., L. E. Burlakova, and A. Y. Karatayev. Benthic macroinvertebrate bioassessment of Scajaquada Creek (Buffalo, NY). 11<sup>th</sup> Annual 2010 Faculty and Staff Research and Creativity Fall Forum, Buffalo State College. October 2010. Buffalo, New York. Poster.

Burlakova, L. E., F. E. Lucy, A. Y. Karatayev, S. E. Mastitsky, and D. T. Zanatta. *Dreissena* impacts on Unionida: A synthesis of trends in North America and Europe. 54<sup>th</sup> Annual Conference on Great Lakes Research. May 30 – June 3, 2011. Duluth, Minnesota.

Bade, D., J. Conroy, C. Pennuto, L. Burlakova, A. Karatayev, A. Pérez-Fuentetaja, D. Kane, D. Culver, J. Kramer, and W. Edwards. 54<sup>th</sup> Annual Conference on Great Lakes Research. The International Association for Great Lakes Research. May 30 – June 3, 2011. Duluth, Minnesota.

Karatayev, V. A., A. Y. Karatayev, and L. E. Burlakova. Lakewide dominance does not predict the invader species for dreissenids. 54<sup>th</sup> Annual Conference on Great Lakes Research. The International Association for Great Lakes Research. May 30 – June 3, 2011. Duluth, Minnesota.

Karatayev, A. Y., S. E. Mastitsky, L. E. Burlakova, V. A. Karatayev, D. B. Conn, and M. Hajduk. Exotic molluscs in the Great Lakes region host pathogenic trematodes. 54<sup>th</sup> Annual Conference on Great Lakes Research. May 30 – June 3, 2011. Duluth, Minnesota.

Burlakova, L. E., A. Y. Karatayev, V. A. Karatayev, M. E. May, D. L. Bennett, and M. J. Cook. Biogeography and conservation of freshwater mussels (Bivalvia: Unionidae): drivers of diversity and threats. 7<sup>th</sup> Biennial Symposium of the Freshwater Mollusk Conservation Society. April 11-15, 2011. Louisville, Kentucky.

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. 12<sup>th</sup> Annual 2011 Faculty and Staff Research and Creativity Fall Forum, Buffalo State College. October 2011. Buffalo, New York. Poster.

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.

Tulumello, B. L., L. E. Burlakova, and A. Y. Karatayev. Estimating the change in weight of *Dreissena polymorpha* and *Dreissena r. bugensis* fixed in ethanol. 22<sup>nd</sup> Annual Great Lakes Research Consortium Conference in SUNY-Oswego. March 30-31, 2012. Oswego, New York. Poster.

Juette, P. M., A. Y. Karatayev, and L. E. Burlakova. Reconstruction of dreissenid biomass dynamics in Lake Erie. 22<sup>nd</sup> Annual Great Lakes Research Consortium Conference in SUNY-Oswego. March 30-31, 2012. Oswego, New York. Poster.

Karatayev, A. Y., L. E. Burlakova, and S. E. Mastitsky. Predicting the zebra mussels spread: what can we learn from 200 years of continuous invasion. 55<sup>th</sup> Annual Conference on Great Lakes Research. May 13-17, 2012. Cornwell, Ontario, Canada.

Karatayev, V. A., A. Y. Karatayev, L. G. Rudstam, and L. E. Burlakova. A century of change in molluscan community in Lake Oneida: Evidence of recovery? 55<sup>th</sup> Annual Conference on Great Lakes Research. May 13-17, 2012. Cornwell, Ontario, Canada.

Hannes, I. P., H. R. Lasker, and L. E. Burlakova. Proposed study of unionid community below and above escarpments from Lake Ontario and Lake Erie tributaries. 55<sup>th</sup> Annual Conference on Great Lakes Research. May 13-17, 2012. Cornwell, Ontario, Canada. Poster.

Snyder, R. J., L. E. Burlakova, A. Y. Karatayev, and D. B. MacNeill. Evaluating Ponto-Caspian fishes for risk of Great Lakes invasion. 55<sup>th</sup> Annual Conference on Great Lakes Research. May 13-17, 2012. Cornwell, Ontario, Canada.

Tulumello, B. L., L. E. Burlakova, and A. Y. Karatayev. Estimating the change in weight of *Dreissena polymorpha* and *Dreissena r. bugensis* fixed in ethanol. 55<sup>th</sup> Annual Conference on Great Lakes Research. May 13-17, 2012. Cornwell, Ontario, Canada. Poster.

Zanatta, D. T., J. Bateman, J. L. Bergner, J. Bossenbroek, L. E. Burlakova, T. Crail, F. de Szalay, T. Griffith, M. Hickin, D. Kapusinski, A. Y. Karatayev, L. Kolich, R. A. Krebs, G. Longton, E. Meyer, W. Paterson, T. Prescott, M. T. Rowe, D. W. Schloesser, M. Scott, M. Shackelford, K. Shreve, and M. Walsh. Survey and reassessment of Unionidae in Lake Erie and Lake St. Clair, 25 years after the dreissenid invasion. 55<sup>th</sup> Annual Conference on Great Lakes Research. May 13-17, 2012. Cornwell, Ontario, Canada.

Pennuto, C.M., L. E. Burlakova, A. Y. Karatayev, A. Perez-Fuentetaja, J. Kramer, G. Matisoff, D. L. Bade, C. Mayer, and T. Bridgeman. Benthos and water column correlations in nearshore Lake Erie. 55<sup>th</sup> Annual Conference on Great Lakes Research. May 13-17, 2012. Cornwell, Ontario, Canada.

Karatayev, A. Y., L. E. Burlakova, D. P. Molloy, S. E. Mastitsky, V. A. Karatayev, and D. B. Conn. Parasites of exotic species in invaded areas: does lower diversity mean lower epizootic impact? Invited talk at the Cornell University Biological Field Station, Bridgeport, New York. July 20, 2012.

Karatayev, A., T. Miller, and L. 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. September 4-7, 2012. Braganca, Portugal.

Karatayev, A., L. Burlakova, and T. Miller. Long-term changes in the distribution range and population size of Texas hornshell *Popenaias popeii*. 8<sup>th</sup> Biennial Symposium of the Freshwater Mollusk Conservation Society. April 10-15, 2013. Guntersville, Alabama.

Zanatta, D., J. Bateman, J. Bossenbroek, L. Burlakova, T. Crail, F. de Szalay, T. Griffith, D. Kapusinski, A. Karatayev, R. Krebs, G. Longton, E. Meyer, W. Paterson, T. Prescott, M. Rowe, D. Schloesser, D. Shackelford, and M. Walsh. Reassessment of the remnant unionid community in Lake Erie and Lake St. Clair, 25 years after the dreissenid invasion. 8<sup>th</sup> Biennial Symposium of the Freshwater Mollusk Conservation Society. April 10-15, 2013. Guntersville, Alabama.

Hannes, I., H. Lasker, and L. Burlakova. Determination of dispersal and gene flow at multiple scales in unionids: from sperm to species. 8<sup>th</sup> Biennial Symposium of the Freshwater Mollusk Conservation Society. April 10-15, 2013. Guntersville, Alabama. Poster.

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? 18<sup>th</sup> International Conference on Aquatic Invasive Species. April 21-25, 2013. Niagara Falls, Ontario, Canada.

Karatayev, V. A., A. Y. Karatayev, L. E. Burlakova, and L. G. Rudstam. Eutrophication versus *Dreissena*: a century of change in the Lake Oneida's molluscan community. 56<sup>th</sup> Annual Conference on Great Lakes Research. June 3-6, 2013. West Lafayette, Indiana.

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. 56<sup>th</sup> Annual Conference on Great Lakes Research. June 3-6, 2013. West Lafayette, Indiana.

Snyder, R. J., L. E. Burlakova, A. Y. Karatayev, and D. B. MacNeill. Enhanced early detection of invasive Ponto-Caspian fishes in the Great Lakes. 56<sup>th</sup> Annual Conference on Great Lakes Research. June 3-6, 2013. West Lafayette, Indiana.

Juette, P., A. Y. Karatayev, and L. E. Burlakova. Factors affecting dreissenid allometry. 56<sup>th</sup> Annual Conference on Great Lakes Research. June 3-6, 2013. West Lafayette, Indiana. Poster.

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.

Burlakova, L., A. Karatayev, S. Daniel, B. Tulumello, J. Fisher, K. Hastings, and K. Pawlowski. Great Lakes Center participates in EPA's Long-Term Biological Monitoring of Great Lakes. 14<sup>th</sup> Annual 2013 Faculty and Staff Research and Creativity Fall Forum, Buffalo State College. October 2013. Buffalo, New York. Poster.

Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. Spread, population dynamics and ecosystem impacts of zebra versus quagga mussels. 57<sup>th</sup> Annual Conference on Great Lakes Research. May 26-30, 2014. Hamilton, Ontario, Canada.

Daniel, S., L. Burlakova, A. Karatayev, B. Tulumello, J. Fisher, K. Hastings, and K. Pawlowski. Long-Term Benthic Monitoring of Laurentian Great Lakes. 57<sup>th</sup> Annual Conference on Great Lakes Research. May 26-30, 2014. Hamilton, Ontario, Canada.

Pawlowski, K., L. E. Burlakova, and A. Y. Karatayev. Do quagga mussels (*Dreissena rostriformis bugensis*) found in shallow and deep environments differ in their wet to dry weight ratios? 16<sup>th</sup> Annual Student Research and Creativity Celebration, SUNY Buffalo State. April 28, 2014. Buffalo, New York. Poster.

Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. Zebra versus quagga mussels: Spread, population dynamics and ecosystem impacts. 15<sup>th</sup> World Lake Conference. September 1-5, 2014. Perugia, Italy.

Karatayev, V. A., A. Y. Karatayev, L. E. Burlakova, and L. Rudstam. Eutrophication and *Dreissena* invasion as drivers of biodiversity: a century of change in a diverse mollusc community. 15<sup>th</sup> World Lake Conference. September 1-5, 2014. Perugia, Italy.

Hannes, I. P., H. R. Lasker, and L. E. Burlakova. Blurred lines in conservation: Freshwater mussel gene flow and species boundaries. 5<sup>th</sup> Annual Student Conference on Conservation Science New York (SCCS-NY). October 14-17, 2014 (poster). Best Poster Award.

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, Illinois.

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. 58<sup>th</sup> Annual Conference on Great Lakes Research. May 25-29, 2015. Burlington, Vermont.

Mehler, K., A. Karatayev, L. Burlakova, and D. Gorsky. Benthic habitat mapping using remote sensing and GIS in the Niagara River. 58<sup>th</sup> Annual Conference on Great Lakes Research. May 25-29, 2015. Burlington, Vermont.

Daniel, S. E., L. E. Burlakova, A. Y. Karatayev, and B. L. Tulumello. Effect of *Dreissena* on profundal Oligochaeta community. 58<sup>th</sup> Annual Conference on Great Lakes Research. May 25-29, 2015. Burlington, Vermont. Poster.

Paterson, W. L., L. E. Burlakova, A. Y. Karatayev, and J. M. Watkins. An international approach to improve early detection of alien species in the Great Lakes. 58<sup>th</sup> Annual Conference on Great Lakes Research. May 25-29, 2015. Burlington, Vermont. Poster.

Porto-Hannes, I., L. Burlakova, and H. Lasker. Species boundaries and levels of intermixing between two freshwater mussel species (Family: Unionidae). Second International Meeting on Biology and Conservation of Freshwater Bivalves. October 4-8, 2015. Buffalo, New York.

Collas, F. P. L., A. Y. Karatayev, L. E. Burlakova, and R. S. E. W. Leuven. Boat hull mediated overland dispersal chance of dreissenid mussels. Second International Meeting on Biology and Conservation of Freshwater Bivalves. October 4-8, 2015. Buffalo, New York.

Dascher E., J. Olson, L. E. Burlakova, A. Y. Karatayev, T. Bonner, and A. N. Schwalb. How does the distribution of unionid freshwater mussels in Texas relate to the distribution of fishes? Second International Meeting on Biology and Conservation of Freshwater Bivalves. October 4-8, 2015. Buffalo, New York.

Mehler, K., A. Y. Karatayev, and L. E. Burlakova. Estimation of exotic bivalve distribution and abundance in a large river using traditional sampling, remote sensing, and GIS-derived benthic habitat maps. Second International Meeting on Biology and Conservation of Freshwater Bivalves. October 4-8, 2015. Buffalo, New York.

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. 59<sup>th</sup> Annual Conference on Great Lakes Research. June 6-10, 2016. Guelph, Ontario, Canada.

Mehler, K., L. E. Burlakova, A. Y. Karatayev, and A. G. Cevaer. Benthic invertebrate assessment in the lower Niagara River: Distribution and community structure. 59<sup>th</sup> Annual Conference on Great Lakes Research. June 6-10, 2016. Guelph, Ontario, Canada.



Daniel, S. E., L. E. Burlakova, and A. Y. Karatayev. The effect of *Dreissena* on vertical distribution and abundance of Oligochaeta in Lake Erie. 59<sup>th</sup> Annual Conference on Great Lakes Research. June 6-10, 2016. Guelph, Ontario, Canada.

Cevaer, A. G., K. Mehler, L. E. Burlakova, and A. Y. Karatayev. Historic and current benthic macroinvertebrate community in the Niagara River. 59<sup>th</sup> Annual Conference on Great Lakes Research. June 6-10, 2016. Guelph, Ontario, Canada.

Vanderploeg, H. A., J. F. Cavaletto, A. K. Baldrige, L. E. Burlakova, H. J. Carrick, A. Y. Karatayev, G. A. Lang, J. R. Liebig, D. M. Mason, T. F. Nalepa, S. A. Pothoven, M. D. Rowe, E. S. Rutherford, and D. J. Wells. Spatial organization of pelagic and benthic food webs in southern Lake Michigan in 2015. 59<sup>th</sup> 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. XXXIII Congress of the International Society of Limnology. July 31 - August 5, 2016. Turin, Italy.

Barbiero, R., B. Lesht, G. Warren, L. Burlakova, and L. Rudstam. A comparison of recent changes in nutrients and the lower food web in Lake Huron and Lake Michigan: synchronous changes, dyssynchronous causes? XXXIII Congress of the International Society of Limnology. July 31 - August 5, 2016. Turin, Italy.

Daniel, S., L. E. Burlakova, and A. Y. Karatayev. The effect of *Dreissena* on the vertical distribution and abundance of Oligochaeta in Lake Erie. 17<sup>th</sup> Annual Faculty/Staff Research and Creativity Fall Forum, Buffalo State College. October 27, 2016. Buffalo, New York. Poster.

Mehler, K., A. Y. Karatayev, and L. E. Burlakova. Integrating remote sensing techniques and spatial modelling to better understand benthos distribution in the Niagara River. 17<sup>th</sup> Annual Faculty/Staff Research and Creativity Fall Forum, Buffalo State College. October 27, 2016. Buffalo, New York. Poster.

Karatayev, A. Y., L. E. Burlakova, K. Mehler, V. A. Karatayev, T. F. Nalepa, A. K. Elgin, 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, Illinois.

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 8<sup>th</sup> Binational Meeting of the Lake Erie Millennium Network. February 21-23, 2017. Windsor, Ontario, Canada.

Karatayev, V. A., T. F. Nalepa, A. Y. Karatayev, B. Weidel, L. G. Rudstam, and L. E. Burlakova. Living fast or slow: habitat-specific demography of invasives regulates their large-scale food web impacts. American Society of Limnology and Oceanography 2017 Aquatic Sciences Meeting. February 27 - March 3, 2017. Honolulu, Hawaii.

Karatayev, A. Y., L. E. Burlakova, K. Mehler, V. A. Karatayev, T. Nalepa, A. Elgin, and E. Hinchey. Underwater video is an effective tool to reveal *Dreissena* spatial distribution. American Society of

Limnology and Oceanography 2017 Aquatic Sciences Meeting. February 27 - March 3, 2017. Honolulu, Hawaii.

Karatayev, A. Y., L. E. Burlakova, K. Mehler, V. A. Karatayev, T. F. Nalepa, A. K. Elgin, and E. K. Hinchey. Underwater video is an effective tool to reveal *Dreissena* spatial distribution. 10<sup>th</sup> Biennial Symposium of the Freshwater Mollusk Conservation Society. March 26-30, 2017. Cleveland, Ohio.

Mehler, K., L. E. Burlakova, and A. Y. Karatayev. Spatial distribution of *Dreissena spp.* and their effect on benthos in the lower Niagara River. 10<sup>th</sup> Biennial Symposium of the Freshwater Mollusk Conservation Society. March 26-30, 2017. Cleveland, Ohio.

Karatayev, V., L. Burlakova, A. Karatayev, T. Miller, and L. Yang. Going with the flow: Evidence for advective dispersal of adult unionids from case study on the Rio Grande and insights for investigation. 10<sup>th</sup> Biennial Symposium of the Freshwater Mollusk Conservation Society. March 26-30, 2017. Cleveland, Ohio.

Barbiero R. P., B. M. Lesht, G. J. Warren, L. G. Rudstam, J. M. Watkins., L. E. Burlakova, A. Y. Karatayev, and E. D. Reavie. A comparative survey of the lower food web across the Laurentian Great Lakes. 60<sup>th</sup> Annual Conference on Great Lakes Research. May 15-19, 2017. Detroit, Michigan.

Daniel, S. E., L. E. Burlakova, A. Y. Karatayev, K. Meyer, and E. Hinchey. The effect of *Dreissena* on sediment organic matter and Oligochaeta in the Great Lakes. 60<sup>th</sup> Annual Conference on Great Lakes Research. May 15-19, 2017. Detroit, Michigan.

Elgin, A., L. Burlakova, A. Karatayev, K. Mehler, and T. Nalepa. Quagga mussel body condition and size distribution inform recent Lake Michigan population trends. 60<sup>th</sup> Annual Conference on Great Lakes Research. May 15-19, 2017. Detroit, Michigan.

Kovalenko, K. E., E. D. Reavie, L. E. Burlakova, A. Y. Karatayev, L. G. Rudstam, and R. P. Barbiero. Cross-lake comparisons of multi-assemblage breakpoints: the GLNPO story. 60<sup>th</sup> Annual Conference on Great Lakes Research. May 15-19, 2017. Detroit, Michigan.

Karatayev, A. Y., V. A. Karatayev, L. E. Burlakova, K. Mehler, M. Clapsadl, and M. Rowe. *Dreissena* growth variation in time and space: Lessons from Lake Erie. 60<sup>th</sup> Annual Conference on Great Lakes Research. May 15-19, 2017. Detroit, Michigan.

Mehler, K., L. E. Burlakova, and A. Y. Karatayev. Niagara River from a benthic perspective: What has been done and what needs to be done. 60<sup>th</sup> Annual Conference on Great Lakes Research. May 15-19, 2017. Detroit, Michigan.

Mehler, K., L. E. Burlakova, and A. Y. Karatayev. Integrating remote sensing and underwater imagery to enhance invasive *Dreissena* distribution assessment in large rivers. 20<sup>th</sup> International Conference on Aquatic Invasive Species. October 22-26, 2017. Fort Lauderdale, Florida.

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. 20<sup>th</sup> International Conference on Aquatic Invasive Species. October 22-26, 2017. Fort Lauderdale, Florida.

Collas, F., A. Karatayev, L. Burlakova, and R. Leuven. Dreissenid mussel dispersal through boat hull mediated overland dispersal. 20<sup>th</sup> International Conference on Aquatic Invasive Species. October 22-26, 2017. Fort Lauderdale, Florida.

Karatayev, A., L. Burlakova, S. Daniel, K. Mehler, K. Hastings, and B. Haas. Great Lakes Center is in charge of the largest monitoring of benthic invertebrates in the Great Lakes. 18<sup>th</sup> Annual Faculty/Staff Research and Creativity Fall Forum, Buffalo State College. November 2, 2017. Buffalo, New York. Poster.

Mehler, K., L. E. Burlakova, and A. Y. Karatayev. Using underwater videos to reveal spatial distribution of invasive mussels in the Great Lakes. 18<sup>th</sup> Annual Faculty/Staff Research and Creativity Fall Forum, Buffalo State College. November 2, 2017. Buffalo, New York. Poster.

Mehler, K., L. E. Burlakova, A.Y. Karatayev, T. Nalepa, A. Elgin, and E. Hinchey. Changes in Lake Michigan benthos over 85 years: A comparative study. 2017 State of Lake Michigan Conference. November 7-10, 2017. Green Bay, Wisconsin.

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.

Mehler, K., L. Burlakova, A. Karatayev, C. Pennuto, and S. Ilyushkin. Using underwater imagery to monitor invasive species in the Great Lakes. 61<sup>st</sup> Annual Conference on Great Lakes Research. June 18-22, 2018. Toronto, Ontario, Canada.

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. 61<sup>st</sup> Annual Conference on Great Lakes Research. June 18-22, 2018. Toronto, Ontario, Canada.

Daniel, S., L. Burlakova, A. Karatayev, K. Mehler, P. Hebert, M. Pfrender, D. Lodge, and A. Trebitz. Great Lakes DNA Barcode Reference Library: Mollusca, Annelida, and Minor Phyla. 61<sup>st</sup> Annual Conference on Great Lakes Research. June 18-22, 2018. Toronto, Ontario, Canada.

Zyzik, M., L. Burlakova, and A. Karatayev. Compilation of wet-to-dry weight ratios of Great Lakes benthic organisms for long-term monitoring. 61<sup>st</sup> Annual Conference on Great Lakes Research. June 18-22, 2018. Toronto, Ontario, Canada.

Hinchey, E., L. Burlakova, K. Mehler, M. Corcoran, and S. M. C. Bonina. Distribution of grain size and sediment nutrients in Lake Michigan surface sediments. 61<sup>st</sup> Annual Conference on Great Lakes Research. June 18 - 22, 2018. Toronto, Ontario, Canada.

Karatayev, A., L. Burlakova, 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.

Daniel, S., L. Burlakova, A. Karatayev, K. Mehler, P. Hebert, M. Pfrender, D. Lodge, and A. Trebitz. Great Lakes DNA Barcode Reference Library: Mollusca, Annelida, and Minor Phyla. State of Lake Superior Conference. October 9-12, 2018. Houghton, Michigan.

Mehler, K., L. Burlakova, A. Karatayev, and J. Scharold. Trends in Lake Superior benthos with particular emphasis on the amphipod *Diporeia spp.* State of Lake Superior Conference. October 9-12, 2018. Houghton, Michigan.

Burlakova, L. E., A. Y. Karatayev, E. Froufe, A. E. Bogan, and M. Lopes-Lima. A new freshwater bivalve species from Texas. 19<sup>th</sup> Annual Faculty/Staff Research and Creativity Fall Forum, Buffalo State College. November 9, 2018. Buffalo, New York. Poster.

Daniel, S., L. E. Burlakova, A. Y. Karatayev, and K. Mehler. Creating Great Lakes DNA Barcode Reference Library. 19<sup>th</sup> Annual Faculty/Staff Research and Creativity Fall Forum, Buffalo State College. November 9, 2018. Buffalo, New York. Poster.

Karatayev, A., L. Burlakova, and T. Miller. *Popenaias popeii* - the first endangered freshwater mussel in Texas. 19<sup>th</sup> Annual Faculty/Staff Research and Creativity Fall Forum, Buffalo State College. November 9, 2018. Buffalo, New York. Poster.

Karatayev, A., L. Burlakova, K. Mehler, M. Rowe, T. Nalepa, and A. Elgin. Lake morphometry determines *Dreissena* invasion dynamics. Association for the Sciences of Limnology and Oceanography 2019 Aquatic Sciences Meeting. February 25 - March 1, 2019. San Juan, Puerto Rico.

Barbiero, R., B. Lesht, L. Burlakova, L. Rudstam, J. Watkins, A. Karatayev, E. Reavie, and E. Hinchey. Thirty five years of EPA monitoring of the lower food web in the Laurentian Great Lakes: an overview of system-wide changes. Association for the Sciences of Limnology and Oceanography 2019 Aquatic Sciences Meeting. February 25 - March 1, 2019. San Juan, Puerto Rico.

Bayba, S., L. Burlakova, A. Karatayev, R. Warren, E. Hinchey Malloy, and K. Bockwold. *Dreissena* and benthos: exploring mechanisms of facilitation and competition. 62<sup>nd</sup> Annual Conference on Great Lakes Research. June 10-14, 2019. Brockport, New York.

Karatayev, A., L. Burlakova, K. Mehler, A. Elgin, and T. Nalepa. Long-term population dynamics of dreissenids in lakes Michigan and Huron. 62<sup>nd</sup> Annual Conference on Great Lakes Research. June 10-14, 2019. Brockport, New York.

Mehler, K., L. Burlakova, and A. Karatayev. Using underwater imagery to improve invasive species monitoring in the Great Lakes. 62<sup>nd</sup> Annual Conference on Great Lakes Research. June 10-14, 2019. Brockport, New York.

Monakhov Stockton, Y., L. Burlakova, A. Karatayev, and K. Mehler. 2018 CSMI Lake Ontario benthic survey through a photographer's lens. 62<sup>nd</sup> Annual Conference on Great Lakes Research. June 10-14, 2019. Brockport, New York. (Poster).

Daniel, S., L. Burlakova, A. Karatayev, K. Mehler, P. Hebert, M. Pfrender, D. Lodge, and A. Trebitz. Great Lakes DNA barcode reference library: Mollusca, Annelida, and minor phyla. 62<sup>nd</sup> Annual Conference on Great Lakes Research. June 10-14, 2019. Brockport, NY.

Katona, L., K. Mehler, L. Burlakova, A. Karatayev, and I. Vadeboncoeur. Variability in sediment and mussel-associated algal biomass along a depth gradient in Lake Ontario. 62<sup>nd</sup> Annual Conference on Great Lakes Research. June 10-14, 2019. Brockport, New York.

Daniel, S. E., L. E. Burlakova, A. Y. Karatayev, K. Mehler, P. D. N. Hebert, M. E. Pfrender, D. Lodge, and A. Trebitz. Great Lakes DNA Barcode Reference Library: Mollusca, Annelida, and Minor Phyla. June 9-11, 2020. Virtual.

Daniel, S. E., L. E. Burlakova, A. Y. Karatayev, K. Mehler, P. D. N. Hebert, M. E. Pfrender, D. Lodge, and A. Trebitz. Great Lakes DNA Barcode Reference Library: Mollusca, Annelida, and Minor Phyla. State of Lake Ontario Conference. March 9-11, 2021. Virtual.

Evans, T., Z. Feiner, L. Rudstam, D. Mason, J. Watkins, E. Reavie, A. Scofield, L. Burlakova, A. Karatayev, and W. G. Sprules. Size spectra analysis in Lake Ontario detects food web changes and provides insight into energy transfer efficiency. State of Lake Ontario Conference. March 9-11, 2021. Virtual.

Hrycik, A., K. Mehler, L. Burlakova, and A. Karatayev. Lake Ontario *Dreissena* dynamics as revealed by video analysis. State of Lake Ontario Conference. March 9-11, 2021. Virtual.

Karatayev, A., L. Burlakova, K. Mehler, A. Elgin, L. Rudstam, J. Watkins, and M. Wick. *Dreissena* in Lake Ontario 30 years after the invasion. State of Lake Ontario Conference. March 9-11, 2021. Virtual.

MacLellan-Hurd, R., A. Karatayev, A. Scofield, E. Hinchey Malloy, and L. Burlakova. Dreissenid density effects on sediment nutrient composition and other benthic organisms. State of Lake Ontario Conference. March 9-11, 2021. Virtual.

Rutherford, E., D. Mason, H. Zhang, B. Weidel, B. Lantry, M. Koops, M. Hossain, C. Chu, C. Boston, G. Arhonditsis, L. Rudstam, K. Fitzpatrick, J. Watkins, K. Holeck, T. Johnson, M. Yuille, E. Brown, J. Holden, K. Fitzpatrick, L. Burlakova, T. Stewart, E. Hinchey, R. Portiss, L. Cartwright, and M. Connerton, M. Modeling nutrient and invasive species tipping points on the Lake Ontario food web. State of Lake Ontario Conference. March 9-11, 2021. Virtual.

Hrycik, A. R., L. E. Burlakova, and A. Y. Karatayev. Biomass estimates for benthic invertebrates of the Great Lakes. 64<sup>th</sup> annual Conference on Great Lakes Research. May 18-21, 2021. Virtual.

MacLellan-Hurd, R., L. Burlakova, A. Karatayev, S. E. Daniel., A. Scofield, and E. Hinchey Malloy. Invasive dreissenids effects on sediment nutrient composition and other benthic organisms. 64<sup>th</sup> Annual Conference on Great Lakes Research. May 18-21, 2021. Virtual.

Karatayev, A. Y., L. E. Burlakova, and A. R. Hrycik. Benthos of Laurentian Great Lakes: Inventory of lake-wide surveys. 64<sup>th</sup> Annual Conference on Great Lakes Research. May 18-21, 2021. Virtual.

Daniel, S. E., L. E. Burlakova, A. Y. Karatayev, K. Mehler, P. D. N. Hebert, M. E. Pfrender, D. Lodge, and A. Trebitz. Great Lakes DNA Barcode Reference Library: Mollusca, Annelida, and Minor Phyla. 64<sup>th</sup> Annual Conference on Great Lakes Research. May 18-21, 2021. Virtual.

Karatayev, A. Y., L. E. Burlakova, A. R. Hrycik, S. E. Daniel, K. Mehler, E. K. Hinchey, R. Dermott, G. W. Kennedy, and R. Griffiths. Long-term dynamics of Lake Erie benthos: One lake, three distinct communities. State of Lake Erie Conference. March 16-18, 2022. Cleveland, Ohio.

Hrycik, A. R., A. Y. Karatayev, L. E. Burlakova, and K. Mehler. Assessment of Lake Erie *Dreissena* populations with video methods. State of Lake Erie Conference. March 16-18, 2022. Cleveland, Ohio.

Daniel, S. E., L. E. Burlakova, A. Y. Karatayev, I. Porto-Hannes, P. D. N. Hebert, M. E. Pfrender, D. Lodge, A. Trebitz, and S. Westergaard. Challenges to DNA barcoding: an ecologist's perspective. State of Lake Erie Conference. March 16-18, 2022. Cleveland, Ohio.

Karatayev, A., L. Burlakova, K. Mehler, E. Hinchey, and A. Hrycik. Rapid assessment of exotic dreissenids in Laurentian Great Lakes using underwater videography. 22<sup>nd</sup> International Conference on Aquatic Invasive Species. Virtual. April 18-22, 2022. Oostende, Belgium.

Daniel, S. E., L. E. Burlakova, A. Y. Karatayev, I. Porto-Hannes, P. D. N. Hebert, M. E. Pfrender, D. Lodge, A. Trebitz, and S. Westergaard. Challenges to DNA barcoding: an ecologist's perspective. Joint Aquatic Sciences Meeting. May 14-20, 2022. Grand Rapids, Michigan.

Hrycik, A. R., A. Karatayev, L. Burlakova, V. Karatayev, and M. D. Rowe. Spatial self-organization of Great Lakes *Dreissena* mussels. Joint Aquatic Sciences Meeting. May 14-20, 2022. Grand Rapids, Michigan.

Boynton, P., J. Watkins, L. Burlakova, A. Karatayev, T. Herne, and L. Rudstam. Incorporating benthic habitat use by mysids into traditional nighttime net-based monitoring. Joint Aquatic Sciences Meeting. May 14-20, 2022. Grand Rapids, Michigan.

Hargrave, L., A. Hrycik, L. Burlakova, and A. Scofield. Impacts of dreissenids on water chemistry and the deep chlorophyll layer in the Laurentian Great Lakes. Joint Aquatic Sciences Meeting. May 14-20, 2022. Grand Rapids, Michigan.

Karatayev, A. Y., L. E. Burlakova, A. R. Hrycik, S. E. Daniel, K. Mehler, E. K. Hinchey, R. Dermott, G. W. Kennedy, and R. Griffiths. Long-term dynamics of Lake Erie benthos: One lake, three distinct communities. Joint Aquatic Sciences Meeting. May 14-20, 2022. Grand Rapids, Michigan.

Pawlowski, M., J. Nestlerode, G. Cicchetti, E. Hinchey Malloy, L. Burlakova, and R. Kraus. "SPI-ing" on benthic conditions in Lakes Erie and Ontario using Sediment Profile Imagery. Joint Aquatic Sciences Meeting. May 14-20, 2022. Grand Rapids, Michigan.

## Professional Societies

International Association for Great Lakes Research

Association for the Sciences of Limnology and Oceanography

Ecological Society of America

Freshwater Mollusk Conservation Society

Great Lakes Unified Malacologists

International Research Consortium on Molluscan Symbionts

Baltic Marine Biologists (BMB)

Eco-Ethics International Union

International Group on Aquatic Alien Species

## Teaching Experience

### USA

Great Lakes Seminar GLC 600 (1 credit). Great Lakes Ecosystem Science Master's programs, Fall 2014.

Biostatistics and Biological Data Analysis (4 credits, Lecture and Lab). Developed as a new graduate/undergraduate course. Fall 2008, 2011.

Biological Experimental Design and Analysis (3 credits; Lecture and Lab). Developed as a new graduate course. Fall 2002, 2004, 2005, 2006.

Population Biology (3 credits). Developed as a new graduate course. Spring 2004, 2005, 2006, 2007.

Conservation Biology (3 credits). Developed as a new graduate/undergraduate course. Fall 2005, 2006.

### Belarus

Experimental Design (3 credits; Lecture and Lab). Developed as a new course Fall 1998, 1999.

Population Ecology (2 credits, Lecture and Lab). Developed as a new course Spring 1999, 2000.

Biostatistics (1 credit, Lecture and Lab). Developed as a new course Spring 1999.

Biostatistics (4 credits, Lab). Developed as a new course Fall 1997, 1998, 1999.

Special Practicum in Ecology and Aquatic Biology (3 credits, Lab). Developed Fall and Spring 1998, 1999.

## Graduate Research

Candidate Dissertation Title: Ecology of *Dreissena polymorpha* (Pallas) and its role in structure and function of aquatic ecosystems. Supervisor Dr. A. P. Ostapenya. 1989-1998.

## Editor of Journal Special Issues

Lopes-Lima, M. P. M., R. G. Sousa, L. E. Burlakova, A. Y. Karatayev, and K. Mehler. "Ecology and Conservation of Freshwater Bivalves." *Hydrobiologia* 810(1). Published March 2018 (34 papers).

Burlakova L., A. Karatayev, L. Rudstam, and E. Hinchey. "U.S. EPA Great Lakes National Program Office Long-Term Monitoring of the Laurentian Great Lakes: approaches, achievements and lessons learned." *Journal of Great Lake Research* 44(4). Published August 2018 (18 papers).

Lopes-Lima, M. P. M., L. E. Burlakova, T. H. Ng, A. Zieritz, and R. G. Sousa. 2022. Special Issue "Biology and impacts of invasive freshwater molluscs". *Hydrobiologia*.

## Associate Editor

*Journal of Great Lakes Research*, since 2021

## Manuscripts Reviewed

*Aquatic BioSystems*

*Applied Ecology*

*Aquatic Invasions*

*Biological Conservation*

*Biological Invasions*

*BIOTA NEOTROPICA*

*BMC Ecology*

*Ecology*

*Ecology and Evolution*

*Ecosystems*

*Environmental Conservation*

*Estuarine, Coastal and Shelf Science*

*Freshwater Science*

*Freshwater Biology*

*Global Change Ecology*

*Hydrobiologia*

*Journal of Great Lakes Research*

*Journal of Molluscan Studies*

*Journal of North American Benthological Society*

*Journal of Siberian Federal University*

*Marine and Freshwater Research*

*Northeastern Naturalist*

*North American Journal of Aquaculture*

*Oceanologia*

*Parasitology*



*PeerJ*

*PLOS One*

*Siberian Journal of Sciences*

*Water Research*

*The American Midland Naturalist*

*The Journal of Experimental Biology*

*The Professional Geographer*

*The Southwestern Naturalist*

*The Texas Journal of Science*

## Grants Reviewed

Graduate Women in Science

Michigan Sea Grant

Minnesota Sea Grant

National Geographic Society

National Science Foundation

## Graduate Students

### Supervising

Sonya Bayba (2018 – 2020). M.A., Great Lakes Environmental Science Program, Great Lakes Center, SUNY Buffalo State College

Susan Daniel (2014 – 2017). M.S., Great Lakes Environmental Science Program, Great Lakes Center, SUNY Buffalo State College

Isabel Porto Hannes (2011 – 2017). Ph.D., State University of New York at Buffalo

Robbyn Drake (2010 – 2011). M.A., Multidisciplinary Program, SUNY Buffalo State College

### Advising

Lara Hargrave (2020 – 2023). M.A., Great Lakes Environmental Science Program, Great Lakes Center, SUNY Buffalo State College

Morgan Zyzik (2017 – 2018). M.S., Great Lakes Environmental Science Program, Great Lakes Center, SUNY Buffalo State College

Eric Bruestle (2014 – 2017). M.A., Great Lakes Environmental Science Program, Great Lakes Center, SUNY Buffalo State College

Keith Pawlowsky (2014 – 2017). M.S., Great Lakes Environmental Science Program, SUNY Buffalo State College

F. P. L. Collas (May – June 2014). Radboud University, Nijmegen, The Netherlands

Paul Juette (2011 – 2014). M.A., SUNY Buffalo State College

Wendy Paterson (2011 – 2012). M.S., Central Michigan University

Michael Cook (2006 – 2008). M.Sc., Stephen F. Austin State University

Kevin Nichols (2006 – 2008). M.Sc., Stephen F. Austin State University

Daniel Bennett (2005 – 2007). M.Sc., Stephen F. Austin State University

David Hollas (2004 – 2006). M.Sc., Stephen F. Austin State University

Leah Cartwright (2004 – 2006). M.Sc., Stephen F. Austin State University

Olga Minich (2003 – 2006). 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

Jules Smith (2002 – 2006). M.Sc., Stephen F. Austin State University

Sewell Brian (2002 – 2003). M.Sc., Stephen F. Austin State University

Andrei Nesterovitch (2002 – 2003). M.Sc., Stephen F. Austin State University

Tom Kesterson (2001 – 2003). M.Sc., Stephen F. Austin State University

Sergey E. Mastitsky (2000 – 2004). Ph.D., Belarusian State University, Belarus

Nataliya M. Lisovskaya (1998 – 2000). M.Sc., Belarusian State University, Belarus

## Undergraduate Students

### Advising

Brianne Tulumello (2011 – 2012). Undergraduate Research and Mentoring (URM) Program, SUNY Buffalo State College

Marissa Hajduk (2008 – 2010). Undergraduate Research and Mentoring (URM) Program, SUNY Buffalo State College

Jered Simpson (2007). B.Sc., Stephen F. Austin State University

Steven Grice (2006). B.Sc., Stephen F. Austin State University

Edgardo Avelar (2006). B.Sc., Stephen F. Austin State University

Tatiana Urash (1998). B.Sc., Belarusian State University, Belarus

Andrey Usov (1998 – 2000). B.Sc., Belarusian State University, Belarus

Svetlana Dudich (1997 – 1998). B.Sc., Belarusian State University, Belarus

Ekaterina Sadova (1997 – 1998). B.Sc., Belarusian State University, Belarus

## External Dissertation Examiner

Ph.D. Thesis by Nathan Haag, "Displacement of the invasive zebra mussel by the similarly invasive quagga mussel: patterns and biological factors." Laval University, Quebec, Canada, May 2019.

Ph.D. Thesis by Sara Meehan, "Assessment and Utilisation of Zequanox for Zebra Mussel (*Dreissena polymorpha*) Control in Irish Waters." Institute of Technology, Sligo, Ireland, September 2014.

M.Sc. Thesis by Elaine Keenan, "Changes in Littoral Invertebrate Communities in Lough Corrib in Response to an Invasion by *Lagarosiphon major*." College of Life Sciences, School of Biology and Environmental Science, University College Dublin, Dublin, Ireland, June 2010.

## Service

Organizer, special sessions at ASLO Aquatic Sciences Meetings (2017, 2019).

Organizer, special sessions at the Annual Meetings of the International Association of Great Lakes Research in 2009 – 2019.

Co-chair, special session at the International Conference "Big Lakes, Small World," European Large Lakes Symposium and International Association for Great Lakes Research (ELLS-IALGR-2018), September 23-28, 2018, Evian, France.

Organizer, special session at the XXXIII Congress of the International Society of Limnology, July 31 - August 5, 2016.

Member of the Organizing Committee for the Second International Freshwater Bivalves Conference. Buffalo, NY, October 4-8, 2015.

Stephen F. Austin State University Department Graduate Committee (2003 – 2007).

Panel Member, Council for Computer-aided Teaching at the Biology College, Belarusian State University, 1998 – 2000.

## Workshops and International Activities

1994 (December): International Workshop on Zebra Mussel Parasites, Minsk, Belarus

1995 (October): International Workshop on Zebra Mussel Parasites, France

1997 (June): International Workshop on Zebra Mussel Parasites, Minsk, Belarus

1998 (February): International Workshop on Zebra Mussel Parasites, Cornwall-on-Hudson, USA

2004 (October): "The Comparative Roles of Suspension Feeders in Ecosystems," NATO Advanced Research Workshop, Nida, Lithuania

2005 (May): International Research Workshop "Portrait of marine and freshwater invertebrate invaders," Ireland

2017 (July); International Workshop to explore the effect of biological invasions on aquatic ecosystems in Belarus and in North America, Cornell Biological Field Station, Bridgeport, NY.

2018 (December): Ecological Risk Assessment of Black Carp (*Mylopharyngodon piceus*) for the Great Lakes Basin Peer Review Meeting.