

# **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 University, Buffalo, New York
- 2007 - Present Adjunct Associate Professor, Biology Department, SUNY Buffalo State University, Buffalo, New York
- 2007 - 2014 Research Scientist, Great Lakes Center, Research Foundation of SUNY, SUNY Buffalo State University, 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, 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 (PRINCIPAL INVESTIGATOR AND Co-PI):**

- 2022-2028 Watkins J., Rudstam, L., L. E. Burlakova, A. Y. Karatayev, and A. Hrycik. Great Lakes Biology Monitoring Program: Zooplankton, Mysis, and Benthic Components. GLRI, U.S. EPA. \$6,750,000 (\$3,040,000 for BSU).
- 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 BSU). 2021-2022.
- 2017-2022 Rudstam, L., L. E. Burlakova, A. Y. Karatayev, and J. Watkins. Great Lakes Long-term Biological Monitoring. U.S. EPA Great Lakes Restoration Initiative. \$5,999,903 (\$2,700,000 for BSU).
- 2017-2021 Burlakova, L. E., A. Y. Karatayev. DNA Barcode Reference Library: Mollusca, Annelida, and minor phyla. U.S. EPA Great Lakes Restoration Initiative. \$400,000.
- 2017-2022 Molloy, D., L. Burlakova. The Natural Enemies of Dreissenid Mussels: An update of the seminal monograph published in 1997. Hudson River Foundation. \$65,200.
- 2016-2018 Karatayev, A. Y., L. E. Burlakova. Lake Superior Benthos: Cooperative Science & Monitoring Initiative. US Geological Survey. \$150,000.
- 2014-2017 Karatayev, A. Y., L. E. Burlakova. Lake Erie & Lake Michigan Benthos: Cooperative Science & Monitoring Initiative. US Geological Survey. \$500,000.
- 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.
- 2012-2018 Rudstam, L., A. Y. Karatayev, 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 BSU).
- 2012-2013 Snyder, R. J., L. E. Burlakova, D. B. MacNeill, and A. Y. Karatayev. Enhanced Early Detection of Invasive Ponto-Caspian Fishes in the Great Lakes. U.S. EPA Great Lakes Restoration Initiative. \$99,756.
- 2012-2013 Burlakova, L. E., A.Y. Karatayev. Zebra/Quagga Mussel Viability Test. U.S. Fish and Wildlife Service, Pacific Region. \$24,962.
- 2010-2013 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.
- 2011-2013 Zanatta, D., L. E. Burlakova, A. Y. Karatayev, R. Krebs, M. Hoggarth, F. de Szalay, J. Bossenbroek, E. Meyer, M. Walsh. Collaborators: M. Schlesinger, R. Haas, T. Crail, P. Badra, N. Welte, and L. Holst. Conservation of Native Freshwater Mussel Refuges in Great Lakes Coastal Zones. Great Lakes Fish and Wildlife Restoration Act, U. S. Fish and Wildlife Service. \$366,412.

- 2011-2013 Pennuto, C. M., A. Y. Karataev, 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.
- 2010-2011 Snyder, R. J., L. E. Burlakova, D. B. MacNeill, and A. Y. Karataev. Evaluating Ponto-Caspian Fishes for Risk of Great Lakes Invasion. U.S. EPA Great Lakes Restoration Initiative. \$111,264.
- 2010 Burlakova, L., A. Karataev, 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. Karataev, 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. Karataev. State-Wide Assessment of Unionid Diversity in Texas. State Wildlife Grant Program, U.S. Fish and Wildlife Service. \$67,514.
- 2007-2008 Karataev, 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. Karataev. State-Wide Assessment of Unionid Diversity in Texas. State Wildlife Grant Program, U.S. Fish and Wildlife Service. \$69,375.
- 2006-2009 Burlakova, L. E. and A. Y. Karataev. Assessing Potential Impacts of Channeled Applesnail to Wetlands in the Galveston Bay Watershed. Texas Commission on Environmental Quality. \$20,000.
- 2006-2007 Burlakova, L. E. and A. Y. Karataev. East Texas Mussel Surveys. State Wildlife Grants, U.S. Fish and Wildlife Service. Texas Parks and Wildlife Department. \$32,056.
- 2006-2007 Karataev, 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. Karataev. Distributional survey and habitat utilization of freshwater mussels. Texas Water Development Board. \$65,000.
- 2006-2007 Karataev, A. Y. and L. E. Burlakova. Predicting the spread and ecosystem impact of exotic bivalve *Limnoperna fortunei* on North American freshwaters. SFA Faculty Research Grant. \$15,704.
- 2006-2008 Karataev, A. Y. and L. E. Burlakova. Potential effects of Zebra mussels in the Madison lakes. Wisconsin DNR Aquatic Invasive Species Grants Program. \$49,037.
- 2004-2006 Karataev, 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.

- 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.
- 2006 Karatayev, A. Y. and L. E. Burlakova. SFA Research Enhancement Minigrant. \$750.
- 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., and Burlakova, L. E. 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., and Burlakova, L. E., 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 Burlakova, L. E. Environmental Monitoring of Lukomskoe Lake Focusing on Anthropogenic Influences. Novolukomlskaya Thermal Electric Power Plant. \$800.

## **PROFESSIONAL PUBLICATIONS AND PRESENTATIONS:**

Peer-review Publications: 145

Presentations at Scholarly Meetings and Invited Talks: 123 (first author); 210 (as co-author)

Papers in Proceedings: 11

Technical Reports: 16

Grants: 40

## PUBLICATIONS:

### REVIEWED PUBLICATIONS: \* graduate student

- 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 Selskagospadarchikh 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 tropic 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. Lyakhovich, S. A. Afanasiev, L. E. Burlakova, V. P. Zakutskiy, S. M. Lyakhov, M. P. Miroshnichenko, T. G. Moroz, M. Y. Nekrasova, S. P. Nechvalenko, I. A. Skalskaya, T. G. Kharchenko, and A. A. Protasov. 1994. The place of species in ecosystem. In: Y. I. Starobogatov (ed.) Freshwater Zebra Mussel *Dreissena polymorpha* (Pall.) (Bivalvia, Dreissenidae). Systematic, Ecology, Practical Meaning, pp. 180-195. Nauka Press, Moscow (in Russian).
- 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. Samoilenco, 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 Hydrobiiology*. 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 Hydrobiiology*. 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 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 Belarusian 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 Ampullariidae 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). *Aquatic Invasions* 5(1): 103-114. [Available online \(PDF\)](#).
- 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., Karatayev, A. Y. Karatayev, V. A., M. E. May, Bennett, D. L., and Cook, M. J. 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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- 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, WI
- 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, WI
- 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, VA.
- 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, July 9, 2003. Bridgeport, NY.
- 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, TX.
- 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, TX. Oral presentation.
- Burlakova, L. E., A. Y. Karatayev, 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, TX.
- Burlakova, L. E., A. Y. Karatayev, D. K. Padilla, D. Boltovskoy. Exotic freshwater bivalves as ecosystem engineers. 97<sup>th</sup> Annual Meeting of National Shellfisheries Association. April 10-14, 2005. Philadelphia, PA.
- 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, PA.

- 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, TX.
- 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, CA.
- 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, CA.
- 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, FL.
- 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. 8<sup>th</sup> Biennial State of the Bay Symposium "Charting the Course to 2015: People, the Bay, and the Future." January 23-25, 2007. Galveston, TX.
- 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, TX.
- Burlakova, L. E. Invasive applesnail *Pomacea insularum*: What have we learned after 3 years of study? Invited Seminar. University of Florida/IFAS/Department of Fisheries and Aquatic Sciences. April 13, 2007. Gainesville, FL.
- Burlakova, L. E., A. Y. Karatayev, D. B. Bennett, 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, TX.
- 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, WI.
- 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, NY.
- 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, WI.
- 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. June 17, 2008. Bridgeport, NY.
- 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, OH.
- 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. May 4, 2009. Austin, Texas.
- 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 University. October 29, 2009. Buffalo, NY. 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 University. October 29, 2009. Buffalo, NY. 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. TX.
- 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, NM.
- 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, CA.
- 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. September 17, 2010 (Invited Seminar). Buffalo, NY.
- Burlakova, L. E. A century of change in a lake benthic community (Lake Mendota, Wisconsin). NOAA Great Lakes Environmental Research Laboratory. November 12, 2010 (Invited Seminar). Ann Arbor, MI.

- 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, KY.
- 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, MN.
- 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. July 20, 2012. Bridgeport, NY.
- Burlakova, L. E., and A. Y. 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. September 4-7, 2012. Braganca, Portugal.
- 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. September 4-7, 2012. Poster. Braganca, Portugal.
- 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, AL.
- Burlakova, L. E., A. Y. Karatayev, B. Tulumello, D. Zanatta, F. Lucy, 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, IN.
- 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. 7<sup>th</sup> 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. February 4, 2014. Rome, GA.
- 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 at EPA Great Lakes National Program Office. February 12, 2015. Chicago, IL.
- 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, VT.
- Burlakova, L. E., A. Y. Karatayev, and R. P. Barbiero. Dynamics of the Oligochaete Trophic Index in Great Lakes, 1997-2011. Invited talk presented at EPA Great Lakes National Program Office. February 12, 2015. Chicago, IL.
- 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. June 18, 2015. Bridgeport, NY.
- 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. July 13, 2015. Cleveland, OH.
- Burlakova, L. E., A. Y. Karatayev, B. L. Tulumello, R. A. 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, MD.
- 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*. 2<sup>nd</sup> International Meeting on Biology and Conservation of Freshwater Bivalves. October 4-8, 2015. Buffalo, NY.
- 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. October 26-27, 2015. Austin, TX.
- Burlakova, L. E., A. Y. Karatayev, and R. P. Barbiero. Spatial and temporal changes in Great Lakes benthic communities, 1997-2013. Invited talk presented at EPA Great Lakes National Program Office. February 17, 2016. Chicago, IL.
- 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. Karataev, S. Daniel, and R. Barbiero. Benthic community of Laurentian Great Lakes: Spatial gradients and temporal changes. 33<sup>rd</sup> Congress of the International Society of Limnology. July 31-August 5, 2016. Turin, Italy.
- Burlakova, L., A. Karataev, 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 University. October 27, 2016 (poster). Buffalo, NY.
- Burlakova, L. E., R. P. Barbiero, A. Y. Karataev, 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. February 27-March 3, 2017. Honolulu, HI.
- Burlakova, L. E., and A. Y. Karataev. Interactions between unionids and dreissenids: Lessons learned. 10<sup>th</sup> Biennial Symposium of the Freshwater Mollusk Conservation Society. March 26-30, 2017. Cleveland, OH.
- Burlakova, L. E., K. E. Kovalenko, K. L. Schmude, R. Barbiero, A. Y. Karataev, 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, MI.
- Burlakova, L. E., A. Y. Karataev, K. Mehler, V. A. Karataev, 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, OR.
- Burlakova, L. E., A. Y. Karataev, 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, FL.
- 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. November 8-9, 2017. Plenary talk. Burlington, Ontario, Canada.
- Burlakova, L., A. Y. Karataev, 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, Canada.
- Burlakova, L. E., R. P. Barbiero, A. Y. Karataev, 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. Karataev, S. Daniel, R. Barbiero, K. Mehler, E. Hinchey, and V. Karataev. 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. Karataev, S. Daniel, R. Barbiero, K. Mehler, and E. Hinchey. Decadal trends in benthic community of the Laurentian Great Lakes. Invited Seminar, University Laval. May 2, 2019. Quebec, Canada.
- Burlakova L., A. Karataev, 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, NY.
- Burlakova, L., A. Karataev, 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. March 9-11, 2021. Virtual Meeting.

- Burlakova, L., A. Karatayev, S. Daniel, K. Mehler, A. Elgin, and T. Nalepa. Lake Huron Benthos: Current State, Long-Term Trends, and Information Gaps. Lake Huron Partnership Working Group. January 28, 2021. Virtual.
- Burlakova, L., K. Mehler, and A. Karatayev. Trends in Lake Superior benthos with particular emphasis on the amphipod *Diporeia* spp. Lake Superior Partnership Working Group. March 3, 2021. Virtual.
- Burlakova, L. Zebra and Quagga Mussel Impacts on Native Mussels. Invasive Mussel Collaborative Webinar. January 13, 2021. Virtual.
- Burlakova, L. E., A. Y. Karatayev, A. Hrycik, S. E. Daniel, K. Mehler, L. Rudstam, J. Watkins, J., 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. Hinckley, 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. Hinckley. Lake Erie Monitoring: Can video imagery help delineate benthic habitats? State of Lake Erie Conference. March 16-18, 2022. Cleveland, OH.
- Burlakova, L. E., A. Y. Karatayev, K. Mehler, and E. Hinckley. Exotic dreissenids transform Great Lakes benthoscapes. 22<sup>nd</sup> International Conference on Aquatic Invasive Species. April 18-22, 2022. Oostende, Belgium. 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. Hinckley, and S. J. Lozano. Six decades of Lake Ontario ecological history according to benthos. Joint Aquatic Sciences Meeting. May 14-20, 2022. Grand Rapids, MI.
- Burlakova, L.E., A.Y. Karatayev, K. Mehler, and E. Hinckley. A picture is worth a thousand worms? Exploring Great Lakes benthoscapes. Joint Aquatic Sciences Meeting. May 14-20, 2022. Grand Rapids, MI. Virtual.
- Burlakova, L. E., A. Y. Karatayev, D. Boltovskoy, and N. M. Correa. Ecosystem services provided by the exotic bivalves *Dreissena polymorpha*, *D. rostriformis bugensis*, and *Limnoperna fortunei*. 13<sup>th</sup> Biennial Freshwater Mollusk Conservation Society Symposium. April 10-14, 2023. Portland, OR.
- Burlakova, L. and A. Y. Karatayev. Rapid assessment of *Dreissena* populations in Great Lakes. 66<sup>th</sup> Annual Conference on Great Lakes Research. May 8-12, 2023. Toronto, Canada.
- Burlakova, L. E. Natural enemies of *Dreissena* and ecosystem services provided by dreissenids. Invited talk at EAWAG Aquatic Ecology Seminar. June 12, 2023. Zurich, Switzerland.
- Burlakova, L. E. Quagga mussel in the Great Lakes: What have we learned in 35 years of invasion (Plenary lecture together with A. Karatayev). SeeWandel Scientific Symposium. June 13, 2023. Constance, Germany.
- Burlakova, L. E. Invited Lecture. Quagga mussel in the Great Lakes: What have we learned in 35 years of invasion (together with A. Karatayev). SeeWandel Scientific Symposium, SeeWandel Exchange with practice representatives. June 14, 2023. Constance, Germany.

- Burlakova, L. E., and A. Y. Karatayev. Role of dreissenids in benthos and effect on North American Great Lakes ecosystems after three decades of invasion. 37<sup>th</sup> Congress of International Society of Limnology. May 5-9, 2024. Iguazu, Brazil.
- Burlakova, L., A. Karatayev, J. Scharold, O. Makhutova, S. Daniel, and K. Mehler. Decadal changes in Lake Superior benthic community. 67<sup>th</sup> Annual Conference on Great Lakes Research. May 20-24, 2024. Windsor, Ontario, Canada.
- Burlakova, L. E., R. P. Barbiero, J. M. Watkins, and A. Y. Karatayev. The disappearance of benthic nepheloid layer in the Laurentian Great Lakes invaded by dreissenids. Association for the Sciences of Limnology and Oceanography. June 2-7, 2024. Madison, WI.
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- Karatayev A. Y., and L. E. Burlakova. Quagga mussels in the Great Lakes: Spread, distribution, and ecosystem impacts Invited talk at Commission internationale pour la protection des eaux du Léman. January 28, 2025. Nyon, Switzerland.
- Karatayev, A., and L. E. Burlakova. Zebra and quagga mussels in the great lakes: What have we learned in 35 years of invasion. Invited talk at Research Centre in Biodiversity and Genetic Resources (BIPOLIS/CIBIO). March 7, 2025. Vairão, Portugal.
- Karatayev, A., and L. E. Burlakova. Zebra and quagga Mussels: Biology, spread, impact, and control. Invited talk at Water utility company. March 10, 2025. Beja, Portugal.
- Karatayev A. Y., and L. E. Burlakova. Multiple invasions decimate the most imperiled freshwater invertebrates. Extended flush talk at EAWAG Aquatic Ecology Seminar. April 2, 2025. Zurich, Switzerland.
- Karatayev, A., and L. E. Burlakova. Benthos of the Great Lakes: Past, present, and a look into the future. Invited talk presented at EPA Great Lakes National Program Office. April 3, 2025. Chicago, IL.
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- 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.
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- 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.
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- Perez-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.
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- 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.
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- Pérez-Fuentetaja, A., C. Pennuto, A. Karatayev, L. Burlakova, J. Conroy, J. Kramer, D. Bade, and G. Matisoff. 2010. 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, NM.
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- 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 University. Buffalo, NY. October 2010. 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 University. Buffalo, NY. October 2010. 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 University. Buffalo, NY. October 2010. Poster.
- Bade, D., J. Conroy, C. Pennuto, L. Burlakova, A. Karatayev, A. Pérez-Fuentetaja, D. Kane, D. Culver, J. Kramer, and W. Edwards. 2011. 54<sup>th</sup> Annual Conference on Great Lakes Research. The International Association for Great Lakes Research. May 30-June 3, 2011. Duluth, MN.
- 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, MN.
- 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, MN.
- 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 University. Buffalo, NY. October 2011. Poster.
- Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. Distribution, population dynamics and ecosystem impacts of *Dreissena polymorpha* and *Dreissena rostriformis bugensis*. 4<sup>th</sup> 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, NY. 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, NY. 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, T., 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. July 20, 2012. Bridgeport, NY.
- 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, AL.
- 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, AL.
- 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, AL. 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, IN.
- 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, IN.
- 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, IN.
- 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, IN (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 University. Buffalo, NY. October 2013. 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 University. Buffalo, NY. April 28, 2014 (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 at EPA Great Lakes National Program Office. February 12, 2015. Chicago, IL.
- 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, VT.
- 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, VT.
- 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, VT (poster).
- Paterson, W. L., L. E. Burlakova, A. Y. Karatayev, and J. M. Watkins, J.M. 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, VT (poster).
- Porto-Hannes, I., L. Burlakova, and H. Lasker. Species boundaries and levels of intermixing between two freshwater mussel species (Family: Unionidae). 2<sup>nd</sup> International Meeting on Biology and Conservation of Freshwater Bivalves. October 4-8, 2015. Buffalo, NY.

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. 2<sup>nd</sup> International Meeting on Biology and Conservation of Freshwater Bivalves. October 4-8, 2015. Buffalo, NY.

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? 2<sup>nd</sup> International Meeting on Biology and Conservation of Freshwater Bivalves. October 4-8, 2015. Buffalo, NY.

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. 2<sup>nd</sup> International Meeting on Biology and Conservation of Freshwater Bivalves. October 4-8, 2015. Buffalo, NY.

Karatayev, A. Y., L. E. Burlakova, K. Mehler, V. A. Karatayev, T. F. Nalepa, A. K. Baldridge, and E. K. Hinckley. 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. Baldridge, 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. Hinckley. Bottom hypoxia is a major driver of *Dreissena* spp. distribution in Lake Erie. 33<sup>rd</sup> 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? 33<sup>rd</sup> 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 University. Buffalo, NY. October 27, 2016 (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 University. Buffalo, NY. October 27, 2016 (poster).

Karatayev, A. Y., L. E. Burlakova, K. Mehler, V. A. Karatayev, T. F. Nalepa, A. K. Elgine, and E. K. Hinchey. Underwater video is an effective tool to reveal *Dreissena* spatial distribution and densities. Cooperative Science and Monitoring Initiative – Lake Michigan. January 26, 2017. Chicago, IL.

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, HI.

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, HI.

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, OH.

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, OH.

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, OH.

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, MI.

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, MI.

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, MI.

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, MI.

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, MI.

- 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, MI.
- 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, FL.
- Karatayev, A. Y., L. E. Burlakova, K. Mehler, V. A. Karatayev, T. Nalepa, A. Elgin, and E. Hinckley. 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, FL.
- 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, FL.
- 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 University. Buffalo, NY. November 2, 2017 (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 University. Buffalo, NY. November 2, 2017 (poster).
- Mehler, K., L. E. Burlakova, A.Y. Karatayev, T. Nalepa, A. Elgin, and E. Hinckley. Changes in Lake Michigan benthos over 85 years: A comparative study. 2017 State of Lake Michigan Conference. November 7-10, 2017. Green Bay, WI.
- Karatayev, A. Y., L. E. Burlakova, K. Mehler, V. Karatayev, T. Nalepa, A. Elgin, and E. Hinckley. Underwater video is an effective tool to reveal *Dreissena* spatial distribution. 2017 State of Lake Michigan Conference. November 7-10, 2017. Green Bay, WI.
- 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.
- Hinckley, 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, A. Karatayev, K. Mehler, A. Elgin, and T. Nalepa. Population dynamics of *Dreissena polymorpha* and *D. rostriformis bugensis* in the Laurentian Great Lakes. International Conference "Big Lakes, Small World," European Large Lakes Symposium and International Association for Great Lakes Research (ELLS-IAGLR-2018). September 23-28, 2018. Evian, France.

- 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, MI.
- 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, MI.
- Burlakova, L. E., A. Y. Karatayev, E. Froufe, A. E. Bogan, and M. Lopes-Lima. 2018. A new freshwater bivalve species from Texas. 19<sup>th</sup> Annual Faculty/Staff Research and Creativity Fall Forum, Buffalo State University. Buffalo, NY. November 9, 2018 (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 University. Buffalo, NY. November 9, 2018 (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 University. Buffalo, NY. November 9, 2018 (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. Hinckley. 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. Hinckley 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, NY.
- 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, NY.
- 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, NY.
- 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, NY. (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, NY.
- 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. Karataev, 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. Karataev. Lake Ontario *Dreissena* dynamics as revealed by video analysis. State of Lake Ontario Conference. March 9-11, 2021. Virtual.
- Karataev, 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. Karataev, A. Scofield, E. Hinckley 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. Hinckley, R. Portiss, L. Cartwright, and M. Connerton. 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. Karataev. 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. Karataev, S. E. Daniel, A. Scofield, and E. Hinckley 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.
- Karataev, 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. Karataev, 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.
- Karataev, A. Y., L. E. Burlakova, A. R. Hrycik, S. E. Daniel, K. Mehler, E. K. Hinckley, 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, OH.
- Hrycik, A. R., A. Y. Karataev, 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, OH.
- Daniel, S. E., L. E. Burlakova, A. Y. Karataev, 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, OH.
- Karataev, A., L. Burlakova, K. Mehler, E. Hinckley, 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. April 18-22, 2022. Oostende, Belgium. Virtual.
- Daniel, S. E., L. E. Burlakova, A. Y. Karataev, 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, MI.

- 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, MI.
- 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, MI.
- 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, MI.
- Karatayev, A. Y., L. E. Burlakova, A. R. Hrycik, S. E. Daniel, K. Mehler, E. K. Hinckley, 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, MI.
- Pawlowski, M., J. Nestlerode, G. Cicchetti, E. Hinckley 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, MI.
- Karatayev, A. Y. and L. Burlakova. *Dreissena* in the Great Lakes: What have we learned in 35 years of invasion. 13<sup>th</sup> Biennial Freshwater Mollusk Conservation Society Symposium. April 10-14, 2023. Portland, OR.
- Herne, T. N., S. D. Lawhun, L. Burlakova, A. Y. Karatayev, P. V. Boynton, J. M. Watkins, and L. G. Rudstam. Shrimp on film - utilization of benthic habitat by *Mysis diluviana* in Lake Michigan. 66<sup>th</sup> Annual Conference on Great Lakes Research. May 8-12, 2023 (poster). Toronto, Ontario, Canada.
- Karatayev, A. Y. and L. Burlakova. *Dreissena* in the Great Lakes: What have we learned in 35 years of invasion. 66<sup>th</sup> Annual Conference on Great Lakes Research. May 8-12, 2023. Toronto, Ontario, Canada.
- Karatayev, A. Y. and L. Burlakova. *Dreissena* in the Great Lakes: What have we learned in 35 years of invasion. Invasive Mussel Collaborative Webinar. May 30, 2023. Virtual.
- Kraemer, B. M., S. Boudet, L. E. Burlakova, L. Haltiner, B. W. Ibelings, A. Y. Karatayev, V. A. Karatayev, S. Rossbacher, R. Stöckli, D. Straile, and P. Spaak. An abundant future for quagga mussels in deep European lakes: SeeWandel synthesis. SeeWandel Exchange with practice representatives. June 14, 2023. Constance, Germany.
- Karatayev, A. Y., V. A. Karatayev, L. G. Rudstam, L. E. Burlakova, B. V. Adamovich, H. A. Zhukava, K. T. Holeck, A. L. Hetherington, J. R. Jackson, C. Balogh, Z. Serfőző, C. W. Hotaling, T. V. Zhukova, T. M. Mikheyeva, R. Z. Kovalevskaya, O. A. Makarevich, and D. V. Kruk. Serial invasions can disrupt the time course of ecosystem recovery. 37<sup>th</sup> Congress of International Society of Limnology. May 5-9, 2024. Iguazu, Brazil.
- Karatayev, A. Y., and L. E. Burlakova. *Dreissena* in Great Lakes: Population dynamics and population assessment using conventional method and videography. 67<sup>th</sup> Annual Conference on Great Lakes Research. May 20-24, 2024. Windsor, Canada.
- Daniel, S., L. Burlakova, A. Karatayev, and L. Denecke. Invasion dynamics of New Zealand mud snail (*Potamopyrgus antipodarum*) in the Laurentian Great Lakes. 67<sup>th</sup> Annual Conference on Great Lakes Research. May 20-24, 2024. Windsor, Canada.
- Denecke, L. E., L. E. Burlakova, A. Y. Karatayev, and S. E. Daniel. Distribution of Round Goby across depth zones in the Laurentian Great Lakes. 67<sup>th</sup> Annual Conference on Great Lakes Research. May 20-24, 2024. Windsor, Canada.

- Dittrich, M., Z. Diloreto, K. Avetisyan, S. Zaferani, L. Burlakova, and A. Karatayev. Geochemical heterogeneity at the sediment-water interface is linked to a presence of freshwater mussels in Lake Ontario. 67<sup>th</sup> Annual Conference on Great Lakes Research. May 20-24, 2024. Windsor, Canada.
- Elgin, A., S. Pothoven, A. Karatayev, L. Burlakova, T. Nalepa. Catching history in a Ponar: Documenting decades of dreissenid mussel invasion in Lake Michigan. 67<sup>th</sup> Annual Conference on Great Lakes Research. May 20-24, 2024. Windsor, Canada.
- Harrow-Lyle, T., A. Elgin, M. Rowe, P. Aslip, L. Burlakova, A. Karatayev, R. Valipour, and D. Depew. Comparing interpolation techniques for dreissenid distributions across Lake Erie. 67<sup>th</sup> Annual Conference on Great Lakes Research. May 20-24, 2024. Windsor, Canada.
- Herne, T., L. Rudstam, J. Watkins, S. Lawhun, P. Boynton, A. Karatayev, and L. Burlakova. Shrimp on film - utilization of benthic habitat by *Mysis diluviana* in Lake Michigan. 67<sup>th</sup> Annual Conference on Great Lakes Research. May 20-24, 2024. Windsor, Canada.
- Lawhun, S., J. Watkins, L. Rudstam, L. Burlakova, and A. Karatayev. As different as night and day: Using Ponar counts to assess *Mysis* benthic habitat use. 67<sup>th</sup> Annual Conference on Great Lakes Research. May 20-24, 2024. Windsor, Canada.
- Makhutova (Kormilets), O., K. Mehler, A. Hrycik, L. Burlakova, and A. Karatayev. *Dreissena* spp. coverage: A tool for rapid assessment of mussel distribution and condition in the Great Lakes. 67<sup>th</sup> Annual Conference on Great Lakes Research. May 20-24, 2024. Windsor, Canada.
- Hinchey, E., A. Scofield, E. Yang, L. Burlakova, A. Karatayev, S. Daniel, and J. Lietz. Long-Term Monitoring of Muddy Macrofauna - EPA GLNPO's Great Lakes Benthic Monitoring Program. 67<sup>th</sup> Annual Conference on Great Lakes Research. May 20-24, 2024. Windsor, Canada.
- Karatayev, A. Y., and L. E. Burlakova. *Dreissena* in Great Lakes: Population dynamics and population assessment using conventional method and videography. Association for the Sciences of Limnology and Oceanography. June 2-7, 2024. Madison, WI.
- Vadeboncoeur, Y., L. Katona, Burlakova, L. E., and A. Y. Karatayev. Basal resource hot zones: Disturbance, morphometry, and nutrients maximize benthic plus planktonic chlorophyll at intermediate depths in the lower Great Lakes. Association for the Sciences of Limnology and Oceanography. June 2-7, 2024. Madison, WI.
- Karatayev, A. Y., V. A. Karatayev, L. G. Rudstam, L. E. Burlakova, B. V. Adamovich, H. A. Zhukava, K. T. Holeck, A. L. Hetherington, J. R. Jackson, C. Balogh, Z. Serfőző, C. W. Hotaling, T. V. Zhukova, T. M. Mikheyeva, R. Z. Kovalevskaya, O. A. Makarevich, and D. V. Kruk. Ecosystem responses to dreissenid mussel invasions in polymictic lakes. Ecological Society of America 2024 Meeting. August 4-9, 2024. Long Beach, CA.

## **PROFESSIONAL SOCIETIES:**

- The International Association for Great Lakes Research  
Association for the Sciences of Limnology and Oceanography  
Ecological Society of America  
Freshwater Mollusk Conservation Society

## **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, Fall 1999.

Population Ecology (2 credits, Lecture and Lab). Developed as a new course Spring 1999, Spring 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, Fall 1998, Fall 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. Karataev, and K. Mehler. "Ecology and Conservation of Freshwater Bivalves." *Hydrobiologia*. 810(1). Published March 2018 (34 papers).

Burlakova L., A. Karataev, 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. 2024. 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 North American Benthological Society*  
*Journal of Molluscan Studies*  
*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:**

French National Research Agency  
SUNY-ESF McIntire-Stennis Research Program  
National Science Foundation  
National Geographic Society  
Graduate Women in Science  
Minnesota Sea Grant  
Michigan Sea Grant

## **GRADUATE STUDENTS (Supervising)**

Lara Hargrave (2020-2023). M.A., Great Lakes Ecosystem Science Program, Great Lakes Center,  
SUNY Buffalo State University  
Sonya Bayba (2018-2020). M.A., Great Lakes Ecosystem Science Program, Great Lakes Center,  
SUNY Buffalo State University  
Susan Daniel (2014-2017). M.S., Great Lakes Ecosystem Science Program, Great Lakes Center, SUNY  
Buffalo State University  
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 University

## **GRADUATE STUDENTS (Advising)**

Sarah Lawhun (2024-present), Cornell University  
Morgan Zyzik (2017-2018), M.S., Great Lakes Ecosystem Science Program, Great Lakes Center,  
SUNY Buffalo State University  
Eric Bruestle (2014-2017), M.A., Great Lakes Ecosystem Science Program, Great Lakes Center,  
SUNY Buffalo State University  
Keith Pawlowsky (2014-2017), M.S., Great Lakes Ecosystem Science Program, SUNY Buffalo State  
University  
F. P. L. Collas (May-June 2014), Radboud University, Nijmegen, The Netherlands  
Paul Juette (2011-2014), M.A., SUNY Buffalo State University  
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 University  
Marissa Hajduk (2008-2010), Undergraduate Research and Mentoring (URM) Program, SUNY Buffalo State University  
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

### **MSc. 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.  
MSc. 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:**

Member of Scientific Committee for 2024 Annual ASLO Meeting.  
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 (2009-2024).  
Co-chair, special session at the 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.

Organizer, special session at the 33<sup>rd</sup> Congress of the International Society of Limnology. July 31-August 5, 2016.

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

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 & 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, NY

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