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. Karatayev, A. Pérez-Fuentetaja, L.E. Burlakova, D. Bade, G. Matisoff, J. Kramer, and C. Mayer. The Lake Erie Nearshore and Offshore Nutrient Study (LENONS). U.S. EPA Great Lakes Restoration Initiative. $615,813.

2010-2011 Snyder, R. J., L. E. Burlakova, D. B. MacNeill, and A. Y. Karatayev. Evaluating Ponto-Caspian Fishes for Risk of Great Lakes Invasion. U.S. EPA Great Lakes Restoration Initiative. $111,264.

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

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

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

2007-2008 Karatayev, A. Y. and L. E. Burlakova. Effect of Natural Factors on Rate of Spread of Aquatic Invasive Species. Buffalo State College Research Council Incentive Funds. $6,284.

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

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

2006-2007 Burlakova, L. E. and A. Y. Karatayev. East Texas Mussel Surveys. State Wildlife Grants, U.S. Fish and Wildlife Service. Texas Parks and Wildlife Department. $32,056.

2006-2007 Karatayev, A. Y. and L. E. Burlakova. Status of Invasive Freshwater Mollusks in Texas. State Wildlife Grants, U.S. Fish and Wildlife Service. Texas Parks and Wildlife Department. $17,795.

2006-2007 Burlakova, L. E. and A. Y. Karatayev. Distributional survey and habitat utilization of freshwater mussels. Texas Water Development Board. $65,000.

2006-2007 Karatayev, A. Y. and L. E. Burlakova. Predicting the spread and ecosystem impact of exotic bivalve *Limnoperna fortunei* on North American freshwaters. SFA Faculty Research Grant. $15,704.

2006-2008 Karatayev, A. Y. and L. E. Burlakova. Potential effects of Zebra mussels in the Madison lakes. Wisconsin DNR Aquatic Invasive Species Grants Program. $49,037.

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

2006 SFA Research Enhancement Minigrant. $500.

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

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

Karatayev, A. Y., and L. Y. Burlakova. 1992. Changes in 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. Lyakhnovich, S. A. Afanasiev, L. E. Burlakova, V. P. Zakutskiy, S. M. Lyakhov, M. P. Miroshnichenko, T. G. Moroz, M. Y. Nekrasova, S. P. Nechvalenko, I. A. Skalskaya, T. G. Kharchenko, and A. A. Protasov. 1994. The place of species in ecosystem. *In:* Y. I. Starobogatov (ed.) Freshwater Zebra Mussel *Dreissena polymorpha* (Pall.) (Bivalvia, Dreissenidae). Systematic, Ecology, Practical Meaning, pp. 180-195. Nauka Press, Moscow (in Russian).

Karatayev, A. Y., and L. E. Burlakova. 1995. Present and further patterns in *Dreissena polymorpha* (Pallas) population development in the Narochanskaya lakes system. *Vestsi Akademii Navuk Belarusi. Seriya biyalagichnikh navuk*. 3: 95-99 (in Belarussian).

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

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

Karatayev, A. Y., L. E. Burlakova, I. A. Rudakovskiy, and Z. K. Kartashevich. 1996. Radioactive contamination of Belarussian lakes. *In:* T. V. Belookaya et al. (eds.) Ecological anthropology. Annual issue, pp. 46-58. Belarussian Committee “Deti Chernobilya” Press, Minsk (in Russian with English summary).

Molloy, D. P., A. Y. Karatayev, L. E. Burlakova, D. P. Kurandina, and F. Laruelle. 1997. Natural Enemies of Zebra Mussels: Predators, Parasites and Ecological Competitors. *Reviews in Fisheries Science* 5(1): 27-97.

Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. 1997. The effect of *Dreissena polymorpha* (Pallas) invasion on aquatic communities in Eastern Europe. *Journal of Shellfish Research* 16(1): 187-203.

Burlakova, L. E., A. Y. Karatayev, and D. P. Molloy. 1998. Field and laboratory studies of zebra mussel (*Dreissena polymorpha*) infection by the ciliate *Conchophthirus acuminatus* in the Republic of Belarus. *Journal of Invertebrate Pathology*. 71(3): 251-257.

Burlakova, L. E. 1998. Ecology of mussel *Dreissena polymorpha* (Pallas) and its role in structure and function of aquatic ecosystems. Candidate Dissertation, Zoology Institute of the Academy of Science Republic Belarus, Minsk, Belarus, 168 pp. (in Russian with English abstract).

Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. 1998. Physical factors that limit the distribution and abundance of *Dreissena polymorpha* (Pall.). *Journal of Shellfish Research* 17(4): 1219-1235.

Karatayev, A. Y., L. E. Burlakova, and D. P. Molloy. 2000. Seasonal dynamics of *Conchophthirus acuminatus* (Ciliophora, Conchophthiridae) infection in *Dreissena polymorpha* and *D. bugensis* (Bivalvia, Dreissenidae). *European Journal of Protistology.* 36, pp. 397-404.

Karatayev, A. Y., L. E. Burlakova, D. P. Molloy, and L. K. Volkova. 2000. Endosymbionts of *Dreissena polymorpha* (Pallas) in Belarus. *International Review of Hydrobiology.* 85(5-6), pp. 543-559.

Burlakova, L. E., A. Y. Karatayev, and D. K. Padilla. 2000. The impact of *Dreissena polymorpha* (Pallas) invasion on unionid bivalves. *International Review of Hydrobiology.* 85(5-6). pp. 529-541.

Kraft C. E., P. J. Sullivan, A. Y. Karatayev, L. E. Burlakova, J. C. Nekola, L. E. Johnson, and D. K. Padilla. 2002. Landscape patterns of an aquatic invader: assessing dispersal extent from spatial distributions. *Ecological Applications*. 12(3): 749-759.

Karatayev, A. Y., L. E. Burlakova, D. P. Molloy, L. K. Volkova, and V. V. Volosyuk. 2002. Field and laboratory studies of *Ophryoglena* sp. (Ciliata: Ophryoglenidae) infection in zebra mussels, *Dreissena polymorpha* (Bivalvia: Dreissenidae) *Journal of Invertebrate Pathology* 79(2002): 80-85.

Karatayev, A. Y, L. E. Burlakova and D. K. Padilla. 2002. Impacts of Zebra Mussels on aquatic communities and their role as ecosystem engineers. *In*: Leppäkoski, E., S. Gollasch and S. Olenin (eds). Invasive Aquatic Species of Europe - Distribution, Impacts and Management. Kluwer Academic Publishers, Dordrecht, The Netherlands, pp 433-446.

Karatayev A. Y., S. E. Mastitsky, L. E. Burlakova, D. P. Molloy, and G. G. Vezhnovets. 2003. Seasonal dynamics of endosymbiotic ciliates and nematodes in *Dreissena polymorpha*. *Journal of Invertebrate Pathology*. 83 (1): 73-82.

Karatayev, A. Y., S. E. Mastitsky, D. P. Molloy, and L. E. Burlakova. 2003. Patterns of emergence and survival of *Conchophthirus acuminatus* (Ciliophora: Conchophthiridae) from *Dreissena polymorpha* (Bivalvia: Dreissenidae) *Journal of Shellfish Research* 22(1): 495-500.

Karatayev A. Y., L. E. Burlakova, T. Kesterton, and 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 Ampullaridae in North America: history, status, and ecology. In: R. C. Joshi, L. S. Sebastian, eds. Global Advances in Ecology and Management of Golden Apple Snails. Philippine Rice Research Institute (PhilRice), Philippines. 73-112.

Karatayev, A. Y., D. K. Padilla, D. Minchin, D. Boltovskoy, and L E. Burlakova. 2007. Changes in global economies and trade: the potential spread of exotic freshwater bivalves. *Biological Invasions*. 9:161–180.

Karatayev, A. Y., D. Boltovskoy, D. K. Padilla, and L. E. Burlakova. 2007. The invasive bivalves *Dreissena polymorpha* and *Limnoperna fortunei*: parallels, contrasts, potential spread and invasion impacts. *Journal of Shellfish Research*. 26 (1): 205-213.

Burlakova, L. E., and A. Y. Karatayev. 2007. The effect of invasive macrophytes and water level fluctuations on unionids in Texas impoundments. *Hydrobiologia*. 586: 291-302.

Karatayev, A. Y., L. E. Burlakova, D. P. Molloy, and S. E. Mastitsky. 2007. *Dreissena polymorpha* and *Conchophthirus acuminatus*: What can we learn from host-commensal relationships. *Journal of Shellfish Research*. 26:1153-1160.

Karatayev, A. Y., L. E. Burlakova, S. E. Mastitsky, and S. Olenin. 2008. Past, current, and future of the Central European Corridor for aquatic invasions in Belarus. *Biological Invasions*. 10: 215-232.

Karatayev, A. Y., L. E. Burlakova, and S. I. Dodson. 2008. Community analysis of Belarusian lakes: correlations of species diversity with hydrochemistry. *Hydrobiologia*. 605: 99-112.

Burlakova, L. E., A. Y. Karatayev, D. K. Padilla, L. D. Cartwright, and D. N. Hollas. 2009. Wetland restoration and invasive species: applesnail (*Pomacea insularum*) feeding on native and invasive aquatic plants. *Restoration Ecology*. 17(3): 433-440.

Karatayev, A. Y., L. E. Burlakova, V. A. Karatayev, and D. K. Padilla. 2009. Introduction, distribution, spread, and impacts of exotic freshwater gastropods in Texas. *Hydrobiologia.* 619: 181-194.

Karatayev, A. Y., L. E. Burlakova, D. K. Padilla, S. E. Mastitsky, S. Olenin. 2009. Invaders are not a random selection of species. *Biological Invasions.* 11: 2009-2019.

Boltovskoy, D., A. Karatayev, L. Burlakova, D. Cataldo, V. Karatayev, F. Sylvester, and A. Mariňelarena. 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.

Karatayev, A. Y., L. E. Burlakova, S. E. Mastitsky, D. K. Padilla, and E. L. Mills. 2011. Contrasting rates of spread of two congeners, *Dreissena polymorpha* and *Dreissena rostriformis bugensis*, at different spatial scales. *Journal of Shellfish Research* 30(3): 1–9.

Burlakova, L. E., A. Y. Karatayev, and V. A. Karatayev. 2012. Invasive mussels induce community changes by increasing habitat complexity. *Hydrobiologia* 685(1): 121-134.

Karatayev, A. Y., T. D. Miller, and L. E. Burlakova. 2012. Long-term changes in unionid assemblages in the Rio Grande, one of the World's top 10 rivers at risk. *Aquatic Conservation: Marine and Freshwater Ecosystems.* 22(2): 206-219.

Burlakova L. E., D. Campbell, A. Y. Karatayev, and D. Barclay. 2012. Distribution, genetic analysis and conservation priorities for rare Texas freshwater molluscs in the genera Fusconaia and Pleurobema (Bivalvia: Unionidae). *Aquatic Biosystems* 8(1):12. Open Access article. DOI: 10.1186/2046-9063-8-12.

Karatayev, A. Y., S. E. Mastitsky, L. E. Burlakova, V. A. Karatayev, M. M. Hajduk, and D. B. Conn. 2012. Exotic molluscs in Great Lakes host epizootically important trematodes. *Journal of Shellfish Research*. 31(3):885-894.

Lucy, F. E., Karatayev, A. Y., and L. E. Burlakova. 2012. Predictions for the spread, population density, and impacts of *Corbicula fluminea* in Ireland. *Aquatic Invasions* 7 (4):465–474. DOI: 10.3391/ai.2012.7.4.003.

Karatayev, A. Y., L. E. Burlakova, J. Vander Zanden, R. C. Lathrop, and D. K. Padilla. 2013. Change in a lake benthic community over a century: evidence for alternative community states. *Hydrobiologia* 700:287–300.

Molloy, D. P., D. A. Mayer, M. J. Gaylo, J. T. Morse, K. T. Presti, P. M. Sawyko, A. Y. Karatayev, L. E. Burlakova, F. Laruelle, K. C. Nishikawa, and B. H. Griffin. 2013. *Pseudomonas fluorescens* strain CL145A – A biopesticide for the control of zebra and quagga mussels (Bivalvia: Dreissenidae). *Journal of Invertebrate Pathology* 113 (2013): 104–114. http://dx.doi.org/10.1016/j.jip.2012.12.012

Molloy, D. P., D. A. Mayer, M. J. Gaylo, L. E. Burlakova, A. Y. Karatayev, K. T. Presti, P. M. Sawyko, J. T. Morse, and E. A. Paul. 2013. Non-target trials with *Pseudomonas fluorescens* strain CL145A, a lethal control agent of dreissenid mussels (Bivalvia: Dreissenidae). *Management of Biological Invasions* 4(1): 71–79. Open Access article. DOI: 10.3391/mbi.2013.4.1.09.

Karatayev, V. A., Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. 2013. Lakewide dominance does not predict the invader species for dreissenids. Journal of Great Lakes Research 39(4): 622–629. DOI: 10.1016/j.jglr.2013.09.007.

Randklev, C.R., E.T. Tsakiris, M.S. Johnson, J. Skorupski, L.E. Burlakova, J. Groce, and N. Wilkins. 2013. Is False Spike, *Quadrula mitchelli* (Bivalvia: Unionidae), extinct? First account of a very-recently deceased individual in over thirty years. *The Southwestern Naturalist* 58: 247-259.

Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. 2014. General Overview of Zebra and Quagga Mussels: What We Do And Do Not Know. In T. F. Nalepa and D. W. Schloesser (eds.) Quagga

and Zebra Mussels: Biology, Impacts, and Control. 2nd Edition. CRC Press, Boca Raton, FL. pp. 695-703.

Mayer, C. M., Burlakova, L. E., Eklöv, P., Fitzgerald, D., Karatayev, A. Y., Ludsin, S. A., Millard, S., Mills, E. L., Ostapenya, A. P., Rudstam, L. G., Zhu, B., and Zhukova, T. V. 2014. Benthification of Freshwater Lakes: Exotic Mussels Turning Ecosystems Upside Down. In T. F. Nalepa and D. W. Schloesser (eds.) Quagga and Zebra Mussels: Biology, Impacts, and Control. 2nd Edition. CRC Press, Boca Raton, FL. pp. 575-586.

Lucy, F. E., Burlakova, L. E., Karatayev, A. Y., Mastitsky, S. E., Zanatta, D. T. 2014. Zebra Mussel Impacts on Unionids: A Synthesis of Trends in North America and Europe. In T. F. Nalepa and D. W. Schloesser (eds.) Quagga and Zebra Mussels: Biology, Impacts, and Control. 2nd Edition. CRC Press, Boca Raton, FL. pp. 623-646.

Mastitsky, S. E., A. Y. Karatayev, and L. E. Burlakova. 2014. Parasites of aquatic exotic invertebrates: identification of hazards posed to the Great Lakes. *Human and Ecological Risk Assessment*. 20:743-763.

Burlakova, L. E., A. Y. Karatayev, C. Pennuto, and C. Mayer. 2014. Changes in Lake Erie benthos over the last 50 years: historical perspectives, current status, and main drivers. *Journal of Great Lakes Research*. 40: 560-573. DOI: 10.1016/j.jglr.2014.02.008.

Karatayev, A. Y., L. E. Burlakova, C. Pennuto, J. Ciborowski, V. A. Karatayev, P. Juette, and M. Clapsadl. 2014. Twenty-five years of changes in *Dreissena* spp. populations in Lake Erie. *Journal of Great Lakes Research*. 40: 550-559. DOI: 10.1016/j.jglr.2014.04.010.

Snyder, R. J., L. E. Burlakova, A.Y. Karatayev, and D. B. MacNeill. 2014. Updated Invasion Risk Assessment for Ponto-Caspian Fishes to the Great Lakes. *Journal of Great Lakes Research*. 40: 360-369. DOI: 10.1016/j.jglr.2014.03.009.

Pennuto, C. M., L. E. Burlakova, A. Y. Karatayev, J. Kramer, A. Fisher, and C. Mayer. 2014. Spatiotemporal characteristics of nitrogen and phosphorus in the benthos of nearshore Lake Erie. *Journal of Great Lakes Research.* 40(3): 541-549. DOI: 10.1016/j.jglr.2014.02.013.

Karatayev, V. A., Karatayev, A. Y., L. E. Burlakova, and L. G. Rudstam. 2014. Eutrophication and *Dreissena* invasion as drivers of biodiversity: a century of change in the mollusc community of Oneida Lake. *PLOS ONE* 9(7): e101388. DOI: 10.1371/journal.pone.0101388.

Burlakova, L.E., Tulumello, B.T., Karatayev, A.Y., Krebs, R.A., Schloesser, D.W., Paterson, W.L., Griffith, T.A., Scott, M.W., Crail, T., and D.T. Zanatta, 2014. Competitive replacement of invasive congeners may relax impact on native species: interactions among zebra, quagga, and native unionid mussels. *PLoS ONE*. 9(12). E114926. DOI: 10.1371/journal.pone.0114926.

Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. 2015. Zebra versus quagga mussels: a review of their spread, population dynamics, and ecosystem impacts. *Hydrobiologia*. 746 (1): 97-112. DOI: 10.1007/s10750-014-1901-x.

Karatayev, A.Y., Burlakova, L.E., Mastitsky, S.E., and D. K. Padilla. 2015. Predicting the spread of aquatic invaders: insight from 200 years of invasion by zebra mussels. *Ecological Applications* 25: 430–440. DOI: 10.1890/13-1339.1.

Zanatta, D.T., Bossenbroek, J.M., Burlakova, L.E., Crail, T., de Szalay, F., Griffith, T.A., Kapusinski, D., Karatayev, A.Y., Krebs, R.A., Meyer, E.S., Paterson, W.L., Prescott, T.J., Rowe, M.T., Schloesser, D.W., and M.C. Walsh. 2015. Distribution of native mussel (Unionidae) assemblages

in coastal areas of Lake Erie, Lake St. Clair, and connecting channels, twenty-five years after a dreissenid invasion. Northeastern Naturalist, 22(1): 223–235.

Karatayev, A., D. Boltovskoy, L. Burlakova, D. Padilla. 2015. Parallels and contrasts between *Limnoperna fortunei* and *Dreissena* species. In: D. Boltovskoy (ed.) *Limnoperna fortunei*, Invading Nature – Springer Series in Invasion Ecology, 261-297. DOI: 10.1007/978-3-319-13494-9_15.

Paterson, W.L., T.A. Griffith, L.E. Burlakova, R.W. Krebs, and D.T. Zanatta. 2015. An evaluation of the genetic structure of mapleleaf mussels (*Quadrula quadrula*) in the Lake Erie watershed. *Journal of Great Lakes Research* 41: 1123-1130.

Lopes-Lima, M., R. Sousa, J. Geist, D. C. Aldridge, R. Araujo, J. Bergengren, Y. Bespalaja, E. Bodis, L. Burlakova, D. Van Damme, K. Douda, E. Froufe, D. Georgiev, C. Gumpinger, A. Karatayev, U. Kebapci, I. Killeen, J. Lajtner, B. M. Larsen, R. Lauceri, A. Legakis, S. Lois, S. Lundberg, E. Moorkens, G. Motte, K.-O. Nagel, P. Ondina, A. Outeiro, M. Paunovic, V. Prie, T. von Proschwitz, N. Riccardi, M. Rudzīte, M. Rudzītis, C. Scheder, M. Seddon, H. Sereflisan, V. Simić, S. Sokolova, K. Stoeckl, J. Taskinen, A. Teixeira, F. Thielen, T. Trichkova, S. Varandas, H. Vicentini, K. Zajac, T. Zajac, S. Zogaris. 2016. Conservation Status of Freshwater Mussels in Europe: State of the Art and Future Challenges. *Biological Reviews.* 92: 572-607. DOI: 10.1111/brv.12244.

Mehler, K, L. E. Burlakova, A. Y. Karatayev, Z. Biesinger, E. Bruestle, A. Valle-Levinson, C. Castiglione, and D. Gorsky. 2017. Integrating remote sensing and species distribution modelling to predict benthic communities in a Great Lakes connecting channel. *River Research and Applications*. 1-9. DOI: 10.1002/rra.3169.

Collas, F. P. L., A. Y. Karatayev, L. E. Burlakova, and R. S. E. W. Leuven. 2018. Detachment rates of dreissenid mussels after boat hull-mediated overland dispersal. *Hydrobiologia* 810: 77-84. DOI: 10.1007/s10750-016-3072-4.

Dascher, E. D., L. E. Burlakova, A. Y. Karatayev, D. F. Ford, and A. N. Schwalb. 2018. Distribution of unionid freshwater mussels and host fishes in Texas. A study of broad-scale spatial patterns across basins and a strong climate gradient. *Hydrobiologia* 810: 315-331. DOI: 10.1007/s10750-017-3168-5.

Karatayev, L. E. Burlakova, T. D. Miller, and M. F. Perrelli. 2018. Reconstructing historical range and population size of an endangered mollusc: long-term decline of *Popenaias popeii* in the Rio Grande, Texas. *Hydrobiologia* 810: 333-349. DOI: 10.1007/s10750-015-2551-3.

Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. 2018. Can introduced species replace lost biodiversity? A test with freshwater molluscs. *Hydrobiologia* 810: 45-56. DOI: 10.1007/s10750-017-3135-1.

Lopes-Lima, M., L. E. Burlakova, A. Y. Karatayev, K. Mehler. M. Seddon, and R. Sousa. 2018. Conservation of freshwater bivalves at the global scale: Diversity, threats and research needs. *Hydrobiologia* 810: 1-14. DOI: 10.1007/s10750-017-3486-7.

Mehler, K., L. E. Burlakova, A. Y. Karatayev, Z. Biesinger, and A. Valle-Lewinson, C. Castiglione, and D. Gorsky. 2018. Sonar technology and underwater video analysis can enhance invasive *Dreissena* distribution assessment in large rivers. *Hydrobiologia* 810: 119-131. DOI: 10.1007/s10750-016-3040-z.

Burlakova, L. E., E. K. Hinchey, A. Y. Karatayev, and L. G. Rudstam. 2018. U.S. EPA Great Lakes

National Program Office Monitoring of the Laurentian Great Lakes: Insights from 40 years of data collection. Journal of the Great Lakes Research. 44(4): 535-538. DOI: 10.1016/j.jglr.2018.05.017.

Burlakova, L. E., K. E. Kovalenko, K. L. Schmude, R. P. Barbiero, A. Y. Karatayev, and B. M. Lesht. 2018. Development of new indices of Great Lakes water quality based on profundal benthic communities. *Journal of the Great Lakes Research*. 44(4): 618-628. DOI: 10.1016/j.jglr.2017.11.004.

Burlakova, L. E., R. P. Barbiero, A. Y. Karatayev, S. E. Daniel, E. K. Hinchey, and G. J. Warren. 2018. The benthic community of the Laurentian Great Lakes: Analysis of spatial gradients and temporal trends from 1998 to 2014. *Journal of the Great Lakes Research* 44: 600-617. Open Access. DOI: 10.1016/j.jglr.2018.04.008.

Karatayev, A. Y., V. A. Karatayev, L. E. Burlakova, M. D. Rowe, K. Mehler, and Mark D. Clapsadl. 2018. Food depletion regulates the demography of invasive dreissenid mussels in a stratified lake. *Limnology and Oceanography*. 63(5): 2065-2079. DOI: 10.1002/lno.10924.

Karatayev, A. Y., L. E. Burlakova, K. Mehler, S. A. Bocaniov, P. D. Collingsworth, G. Warren, R. T. Kraus, and E. K. Hinchey. 2018. Biomonitoring using invasive species in a large lake: *Dreissena* distribution maps hypoxic zones. *Journal of the Great Lakes Research* 44(4): 639-649. DOI: 10.1016/j.jglr.2017.08.001.

Karatayev, A. Y., K. Mehler, L. E. Burlakova, E. K. Hinchey, and G. Warren. 2018. Benthic video image analysis facilitates monitoring of *Dreissena* populations across spatial scales. *Journal of the Great Lakes Research*. 44(4): 629-638.

Karatayev, A. Y., L. E. Burlakova, K. Mehler, R. P. Barbiero, E. K. Hinchey, P. D. Collingsworth, K. E. Kovalenko, and G. Warren. 2018. Life after *Dreissena*: The decline of exotic suspension feeder may have significant impacts on lake ecosystems. *Journal of the Great Lakes Research*. 44(4): 650-659. DOI: 10.1016/j.jglr.2018.05.010.

Kovalenko, K. E. E. D. Reavie, R. P. Barbiero, L. E. Burlakova, A. Y. Karatayev, L. G. Rudstam, G. Warren, and J. M. Watkins. 2018. Patterns of long-term dynamics of aquatic communities and water quality parameters in the Great Lakes: Are they synchronized? *Journal of the Great Lakes Research*. 44(4): 660-669.

Bossenbroek, J. M., L. E. Burlakova, T. C. Crail, A. Y. Karatayev, R. A. Krebs, and D. T. Zanatta. 2018. Modelling habitat of freshwater mussels (Bivalvia: Unionidae) in the lower Great Lakes 25 years after the *Dreissena* invasion. *Freshwater Science*. 36(2): 330-342. DOI: 10.1086/697738.

Burlakova, L. E., A. Y. Karatayev, E. Froufe, A. E. Bogan, and M. Lopes-Lima. 2018. A new freshwater bivalve species of the genus *Cyclonaias* from Texas (Unionidae: Ambleminae: Quadrulini). *The Nautilus*. 132(2): 45-50.

Burlakova, L. E., D. Campbell, and A. Y. Karatayev. 2019. Status of rare endemic species: Molecular phylogeny, distribution, and conservation of freshwater molluscs *Truncilla macrodon* and *Truncilla cognata* in Texas. *Malacologia*. 62(2): 345-363.

Lopes-Lima, M, L. Burlakova, A. Karatayev, A. Gomes-dos-Santos, A. Zieritz, E. Froufe, and A. E. Bogan. 2019. Revisiting the North American freshwater mussel genus *Quadrula* sensu lato (Bivalvia Unionidae): Phylogeny, taxonomy and species delineation. *Zoologica Scripta*. DOI: 10.1111/zsc.12344.

Bunnell, D. B, S. A. Pothoven, P. M. Armenio, L. Eaton, D. M. Warner, A. K. Elgin, L. E. Burlakova, and A. Y. Karatayev. 2019. Spatiotemporal variability in energetic condition of alewife and round goby in Lake Michigan. *Can. J. Fish. Aquat. Sci*. 76(11):1982-1992.

Strayer, D. L., B. V. Adamovich, R. Adrian, D. C. Aldridge, C. Balogh, L. E. Burlakova, H. Fried-Petersen, L. G.-Tóth, A. L. Hetherington, T. S. Jones, A. Y. Karatayev, J. B. Madill, O. A. Makarevich, J. E. Marsden, A. L. Martel, D. Minchin, T. F. Nalepa, R. Noordhuis, T. J. Robinson, L. G. Rudstam, A. N. Schwalb, D. R. Smith, A. D. Steinman, and J. M. Jeschke. 2019. Long-term population dynamics of dreissenid mussels (*Dreissena polymorpha* and *D. rostriformis*): A cross-system analysis. Ecosphere 10 (4) e02701. DOI: 10.1002/ecs2.2701.

Porto-Hannes, I., L. E. Burlakova, A. Y. Karatayev, and H. R. Lasker. 2019. Molecular phylogeny, biogeography, and conservation of the freshwater endemic mollusk *Lampsilis bracteata* in Texas. *Zootaxa*. 4652(3): 442-456.

Mitchell, Z. A., L. E. Burlakova, A. Y. Karatayev, and A. N. Schwalb. 2019. Changes in community composition of riverine mussels after a severe drought depend on local conditions: a comparative study in four tributaries of a subtropical river. *Hydrobiologia*. 848(9): 3015-3029. DOI: 10.1007/s10750-019-04058-3.

Teixeira, J. E., E. Froufe, A. Gomes-dos-Santos, A. E. Bogan, A. Y. Karatayev, L. E. Burlakova, D. C. Aldridge, I. N. Bolotov, I. V. Vikhrev, A. Teixeira, S. Varandas, D. T. Zanattah, and M. Lopes-Lima. 2020. Complete mitochondrial genomes of the freshwater mussels *Amblema plicata* (Say, 1817), *Pleurobema oviforme* (Conrad, 1834) and *Popenaias popeii* (Lea, 1857) (Bivalvia: Unionidae: Ambleminae). *Mitochondrial DNA Part B*. 5:3, 2977-2979. DOI: 10.1080/23802359.2020.1791008.

Mehler, K., L. E. Burlakova, A. Y. Karatayev, A. K. Elgin, T. F. Nalepa, C. P. Madenjian, and E. Hinchey. 2020. Long-term trends of Lake Michigan benthos with emphasis on the southern basin. *Journal of Great Lakes Research*. 46: 528-537.

Rudstam, L. G., J. M. Watkins, A. E. Scofield, R. P. Barbiero, L. E. Burlakova, A. Y. Karatayev, K. Mehler, E. D. Reavie, E. T. Howell, and E. K. Hinchey. 2020. Status of lower trophic levels in Lake Huron. Pages 14-45 in S. C. Riley and M. P. Ebener, editors. State of Lake Huron. Great Lakes Fisheries Commission Special Publications 2020-01.

Karatayev, V. A., L. E. Burlakova, A. Y. Karatayev, L. Yang, and T. Miller. 2020. Advection and habitat loss interactively reduce persistence: Maintaining threatened riverine populations while restoring natural flow regimes. *Oecologia*. 193(3): 773-785. DOI: 10.1007/s00442-020-04706-9.

Boltovskoy, D., N. M. Correa, L. E. Burlakova, A. Y. Karatayev, E. V. Thuesen, F. Sylvester, and E. M. Paolucci. 2021. Traits and impacts of introduced species: A quantitative review of meta-analyses. *Hydrobiologia*. 848: 2225-2258. DOI: 10.1007/s10750-020-04378-9.

Karatayev, A. Y., L. E. Burlakova, K. Mehler, E. K. Hinchey, M. Wick, M. Bakowska, and N. Mrozinska. 2021. Rapid assessment of *Dreissena* population in Lake Erie using underwater videography. *Hydrobiologia*. 848 (9), 2421-2436. DOI: 10.1007/s10750-020-04481-x.

Porto-Hannes, I., L. E. Burlakova, D. T. Zanatta, H. R. Lasker. 2021. Boundaries and hybridization in a secondary contact zone between freshwater mussel species (Family: Unionidae). *Heredity*. 126, 955-973. DOI: 10.1038/s41437-021-00424-x.

Karatayev, A. Y., V. A. Karatayev, L. E. Burlakova, K. Mehler, M. D. Rowe, A. K. Elgin, and T. F. Nalepa. 2021. Lake morphometry determines *Dreissena* invasion dynamics. *Biological*

Invasions. 23: 2489-2514. DOI: 10.1007/s10530-021-02518-3.

Burlakova, L. E., A. Y. Karatayev, A. R. Hrycik, S. E. Daniel, K. Mehler, L. G. Rudstam, J. M. Watkins, R. Dermott, J. Scharold, A. K. Elgin, T. F. Nalepa, E.K. Hinchey, S.J. Lozano. 2021. Density data for Lake Ontario benthic invertebrate assemblages from 1964 to 2018. Ecology. 102(12), 2021, e03528. DOI: 10.1002/ecy.3528.

Karatayev, A. Y., L. E. Burlakova, K. Mehler, A. K. Elgin, L. G. Rudstam, J. M. Watkins, and M. Wick. 2022. *Dreissena* in Lake Ontario 30 years post-invasion. *Journal of Great Lakes Research*. 48(2): 264-273. DOI: 10.1016/j.jglr.2020.11.010.

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, and T. F. Nalepa. 2022. Six decades of Lake Ontario ecological history according to benthos. *Journal of Great Lakes Research*. 48: 274-288. DOI: 10.1016/j.jglr.2021.03.006.

Evans, T. M., Z. S. Feiner, L. G. Rudstam, D. M. Mason, J. M. Watkins, E. D. Reavie, A. E. Scofield, L. E. Burlakova, A. Y. Karatayev, and W. G. Sprules. 2022. Size spectra analysis of a decade of Laurentian Great Lakes data. *Canadian Journal of Fisheries and Aquatic Sciences*. 79(1): 183-194. DOI: 10.1139/cjfas-2020-0144.

Boltovskoy, D., R. Guiaşu, L. Burlakova, A. Karatayev, M. Schlaepfer, N. Correa, 2022. Misleading estimates of economic impacts of biological invasions: including the costs but not the benefits. *Ambio*. DOI: 10.1007/s13280-022-01707-1.

Burlakova, L. E., A. Y. Karatayev, A. R. Hrycik, S. E. Daniel, K. Mehler, L. G. Rudstam, J. M. Watkins, R. Dermott, J. Scharold, A. K. Elgin, T. F. Nalepa, E. K. Hinchey, and S. J. Lozano. 2022. Benthic Data Collection in Lake Ontario: Continuation of a Long-term Data Series. *Bulletin of the Ecological Society of America*. 103(1): e01937. DOI: 10.1002/bes2.1937.

Burlakova, L. E., A. Y. Karatayev, K. Mehler, E.K. Hinchey. 2023. Exploring Great Lakes benthoscapes: Can we visually delineate hypoxic habitats? *Hydrobiologia*. 850: 1331-1353. DOI: 10.1007/s10750-022-04821-z.

Spear, M. J., P. A. Wakker, T. P. Shannon, R. L. Lowe, L. E. Burlakova, A. Y. Karatayev, and M. J. Vander Zanden. 2022. Early changes in the benthic community of a eutrophic lake following zebra mussel (*Dreissena polymorpha*) invasion. *Inland Waters*. 12: 311-329. DOI: 10.1080/20442041.2021.2007744.

Bayba*, S., L. E. Burlakova, A. Y. Karatayev, and R. J. Warren II. 2022. Non-native *Dreissena* associated with increased native benthic community abundance with greater lake depth. *Journal of Great Lakes Research*. 48 (3): 734-745.

Boltovskoy, D., R. C. Guiaşu, L. Burlakova, A. Y. Karatayev, M. A. Schlaepfer & N. Correa, 2022. Aquatic invasive species: The economic cost-benefit balance of human-made infrastructure. Anales de la Academia Nacional de Ciencias Exactas, Físicas y Naturales (Argentina) 73: 122-132.

Karatayev, A. Y., L. E. Burlakova, A. R. Hrycik, S. E. Daniel, K. Mehler, E. K. Hinchey, R. Dermott, G. W. Kennedy, R. Griffiths. 2022. Long-term dynamics of Lake Erie benthos: One lake, three distinct communities. *Journal of Great Lakes Research*. 48(6): 1599-1617. DOI: 10.1016/j.jglr.2022.09.006.

Burlakova, L., Karatayev, A., Rudstam, L., Karatayev, V., Adamovich, B., Zhukava, H., Holeck, K., Hetherington, A., Jackson, J., Balogh, C., Serfőző, Z., Zhukova, T., Mikheyeva, T.,

Kovalevskaya, R., Makarevich, O., and D. Kruk. 2022. Time scales of ecosystem impacts and recovery under individual and serial invasions. *Dryad, Dataset*. DOI: 10.5061/dryad.mpg4f4qzw.

Karatayev, A. Y., and L. E. Burlakova. 2022. What we know and don't know about the invasive zebra (*Dreissena polymorpha*) and quagga (*Dreissena rostriformis bugensis*) mussels. *Hydrobiologia*, 852: 1029-1102. DOI: 10.1007/s10750-022-04950-5.

Karatayev, A. Y., and L. E. Burlakova. 2022. *Dreissena* in the Great Lakes: What have we learned in 30 years of invasion. *Hydrobiologia*. 852:1103-1130. DOI: 10.1007/s10750-022-04990-x.

Porto-Hannes*, I., Lasker, H. R., and L. E. Burlakova. Genetic isolation and homogenization: potential effects of landscape features on the population genetic structure of freshwater mussels. 2022. Journal of Great Lakes Research, 48(4): 1032-1041.

Burlakova, L. E., A. Y. Karatayev, D. Boltovskoy, and N. M. Correa. 2023. Ecosystem services provided by the exotic bivalves *Dreissena polymorpha, D. rostriformis bugensis,* and *Limnoperna fortunei*. *Hydrobiologia*. 850: 2811-2854. DOI: 10.1007/s10750-022-04935-4.

Karatayev, V. A., Burlakova, L. B., Karatayev, A. Y., Rudstam, L. G., Adamovich, B. V., Zhukava, H. A., Holeck, K. T., Hetherington, A. L., Jackson, J. R., Balogh, C., Serfőző, Z., Hotaling, C. W., Zhukova, T. V., Mikheyeva, T. M., Kovalevskaya, R. Z., Makarevich, O. A., and D. V. Kruk. 2023. Time scales of ecosystem impacts and recovery under individual and serial invasions. *Ecosystems*. DOI: 10.1007/s10021-023-00828-2.

Eifert, R. A., L. E. Burlakova, A. Y. Karatayev, S. E. Daniel, A. E. Scofield, and E. K. Hinchey. 2023. Could quagga mussels impact offshore benthic community and surface sediment-bound nutrients in the Laurentian Great Lakes? *Hydrobiologia*. 852:1165-1182. DOI: 10.1007/s10750-023-05191-w.

Kraemer, B. M., S. Boudet, L. E. Burlakova, L. Haltiner, B. W. Ibelings, A. Y. Karatayev, V. A. Karatayev, S. Rossbacher, R. Stoeckli, D. Straile, and P. Spaak. 2023. An abundant future for quagga mussels in deep European lakes. *Environmental Research Letters:* 18. 124008. DOI: 10.1088/1748-9326/ad059f.

Haltiner, L., J. Alexander, L. Baehn, L. E. Burlakova, S. Dennis, P. Feulner, S. Flämig, L. A. Karatayev, V. Karatayev, B. Kraemer, S. Rossbacher, R. Stöckli, and Spaak, P. 2023. Quagga mussels threaten pre-alpine lakes. *Aqua & Gas*. 6: 61-65. (Title in German: Quaggamuscheln bedrohen voralpine seen).

Karatayev, A. Y., D. P. Molloy, and L. E. Burlakova. 2023. Natural Enemies of Zebra and Quagga Mussels: Predators, Parasites, and Ecological Competitors. Reviews in Fisheries Science & Aquaculture 5: 27-97. DOI: 10.1080/23308249.2023.2235437.

Burlakova, L. E., A. Y. Karatayev, A. R. Hrycik, S. Daniel, K. Mehler, E. K. Hinchey, R. Dermott, R. Griffiths, and L. E. Denecke. 2024. Density data for Lake Erie benthic invertebrate assemblages from 1930 to 2019. *Ecology*. e4301. DOI: 10.1002/ecy.4301.

Barbiero, R. P., Burlakova, L.E., Watkins, J. M., Karatayev, A. Y., Lesht, B. M., 2024. The benthic nepheloid layer in the offshore waters of the Great Lakes and its post-dreissenid disappearance. *J. Great Lakes Res*. 50, 102408. DOI: 10.1016/j.jglr.2024.102408.

Hrycik, A.R., L. E. Burlakova, A. Y. Karatayev, S. E. Daniel, R. Dermott, M. Tarbell, and E. K. Hinchey. 2024. A dataset of individual wet weights of benthic macroinvertebrates. *Limnology and Oceanography Letters*. 9(6), pp.696-715.

Paolucci, E. M., L. E. Burlakova, N. Yarza, N. Correa, D. Boltovskoy, and A. Y. Karatayev. 2025. Planktonic larvae of the invasive bivalves *Dreissena* spp. and *Limnoperna fortunei*: review of their effects on freshwater communities. *Hydrobiologia*. DOI: 10.1007/s10750-024-05521-6.

Daniel, E. E., L. E. Burlakova, A. Y. Karatayev, and L. E. Denecke. 2025. Invasion dynamics of New Zealand mud snail. *Hydrobiologia*. DOI: 10.1007/s10750-024-05522-5.

Karatayev, A. Y., and L. E. Burlakova. 2025. *Dreissena* in large lakes: Long-term population dynamics and population assessment using conventional methods and videography. *Hydrobiologia*. 852, 2349-2368. DOI: 10.1007/s10750-024-05560-z.

Basista*, M. P., L. E. Burlakova, A. Y. Karatayev, and S. E. Daniel. 2025. Demographic patterns of quagga mussel invasion into Lake Michigan profundal zone. *Hydrobiologia*. 852:2 065–2079. DOI: 10.1007/s10750-024-05607-1.

Katona*, L. R., L. E. Burlakova, A. Y. Karatayev, and Y. Vadeboncoeur. 2025. Progressive enrichment of benthic primary producer and dreissenid $\delta^{15}N$ with depth in Lakes Erie and Ontario. Hydrobiologia. https://doi.org/10.1007/s10750-024-05639-7

Burlakova, L. E., A. Y. Karatayev, S. E. Daniel, J. R. Meyer, T. O. Höök, S. Lawhun*, K. L. Bowen, W. J. S. Currie, P. D. Collingsworth. 2025. Video classification of hypoxic habitats and benthic communities in two productive freshwater embayments. *Ecological Indicators*. 173, 113286. DOI: 10.1016/j.ecolind.2025.113286.

Lopes-Lima, M., A. Lopes-Lima, L. Burlakova, K. Douda, Á. Alonso, A. Karatayev, T. H. Ng, M. Vinarski, A. Zieritz, R. Sousa. 2025. Non-native freshwater molluscs: A brief global review of species, pathways, impacts and management strategies. *Hydrobiologia*. 852: 1005-1028. DOI: 10.1007/s10750-024-05780-3.

Karatayev, A. Y., L. E. Burlakova, V.A. Karatayev, J. E. Cooper, L. G. Rudstam. 2025. Multiple invasions decimate the most imperiled freshwater invertebrates. *Biol Invasions*. 27: 85. DOI: 10.1007/s10530-025-03540-5.

Makhutova, O. N., L. Burlakova, and A. Karatayev. 2025. Assessment of omega-3 PUFA reserves in the quagga mussel of Lake Ontario, with a special focus on its diet. *Inland Waters*. DOI: 10.1080/20442041.2025.2483570.

PAPERS IN PROCEEDINGS: (11)

Bozhko, L. D., L. E. Burlakova, L. K. Gerasimova, and B. A. Tatarinov. 1984. The role of waxes in the ozone-induced changes in protective properties of apple induviate tissue. *In:* The Increase of Technological Efficiency of Food Refrigerating and Storage, pp. 82-88. Collection of papers. Leningrad (in Russian).

Burlakova, L. E., and L. K. Gerasimova. 1985. Physical and chemical regulation of fruit transpiration. *In:* Regulation of Biosystem Function and Methods for their Study. Proceeding of All-Union Conference of Young Scientists, pp. 74-76. Kazan (in Russian).

Karatayev, A. Y., and L. E. Burlakova. 1993. The filtration activity of *Dreissena* and its influence on the trophic structure of planktonic and benthic invertebrates. *In:* Proceedings of the 6th International Meeting on the Project "Species and their Productivity within their Range" UNESCO program "Man and Biosphere" (St. Petersburg, Russia), pp. 211-213. Gidrometeoizdat Press, St. Petersburg (in Russian).

Burlakova, L. 1995. The relationship between *Dreissena* and other benthic animals. *In:* Proceedings of the 5th International Zebra Mussel and other Nuisance Aquatic Organisms Conference (Toronto, Canada), pp. 23-29. (in English).

Karatayev, A. Y., D. P. Molloy, L. E. Burlakova, G. G. Vezhnovets, L. K. Volkova, and V. V. Us. 1998. Propagation of *Dreissena* and its influence on ichthyofauna of reservoirs of Belarus. *In:* Problems of the Development of Fish Industry in the Inland Reservoirs in Terms of Transition to Market Economy. Proceedings of the International Conference (Minsk, Belarus), pp. 407-411. Belarussian Publishing Association "Khata", Minsk (in Russian).

Burlakova, L. E., A. Y. Karatayev, V. M. Samoilenko, V. F. Ikonnikov, G. G. Vezhnovets, Z. K. Kartashevich, and I. A. Rudakovskiy. 1998. Information System "Limnoflora-Limnofauna of Belarus". *In:* Problems of the Development of Fish Industry in the Inland Reservoirs in Terms of Transition to Market Economy. Proceedings of the International Conference (Minsk, Belarus), pp. 377-381. Belarussian Publishing Association "Khata", Minsk (in Russian).

Burlakova, L. E. 1999. The spread of *Dreissena* in Belarussian lakes. *In:* The Results and Future of Aquatic Ecology Research. Proceedings of International Conference on Aquatic Ecosystems, Minsk, November 25-26, 1999, pp. 30-34 (in Russian with English summary).

Karatayev, A. Y., L. E. Burlakova, P. A. Mitrakhovich, G. G. Vezhnovets, and E. N. Makritskaya. 1999. Some factors affecting zooplankton of Belarussian lakes. *In:* The Results and Future of Aquatic Ecology Research. Proceedings of the International Conference on Aquatic Ecosystems (Minsk, Belarus), pp. 90-94 (in Russian with English summary).

Karatayev, A. Y., I. A. Rudakovskiy, P. G. Prischepov, and L. E. Burlakova. 1999. The fish productivity of Belarussian lakes. *In:* The Present Status and Perspectives of Development of Aquaculture. Proceedings of the International Conference (Gorky, Belarus), pp. 22-23. (in Russian).

Burlakova, L. E., and A. Y. Karatayev. 1999. The spread of *Dreissena* on Belarussian lakes and its influence on fish forage reserve. *In:* The Present Status and Perspectives of Development of Aquaculture. Proceedings of the International Conference (Gorky, Belarus), pp. 125-127. (in Russian).

Karatayev, A. Y., V. M. Samoilenko, and L. E. Burlakova. 2000. Factors affecting macrozoobenthos of Belarussian lakes. International Conference on Lake Ecosystems. *In:* Lake Ecosystems: Biological Processes, Anthropogenic Transformation, Water Quality. Materials of the International Scientific Conference. September 20-25, 1999. Naroch-Minsk, Belarus, pp. 123-130 (in Russian with English summary).

REPORTS AVAILABLE ONLINE (16)

Karatayev, A. Y., and L. E. Burlakova. 2007. East Texas mussel survey. Texas Parks and Wildlife Department, Austin, Texas, 40 pp.

Karatayev, A. Y., and L. E. Burlakova. 2008. Final report: distributional survey and habitat utilization of freshwater mussels. Interagency final report to the Texas Water Development Board. Buffalo State College, Buffalo, New York, 47 pp.

Burlakova, L. E., and A. Y. Karatayev. 2010. Performance report – Final: State-wide assessment of unionid diversity in Texas. Texas State Wildlife Grants Program, Federal Aid Grant No. T-43, 30 pp.

Burlakova, L. E., and A. Y. Karatayev. 2010b. Database of rare mussel collections in Texas, 2005-2008. Texas Parks & Wildlife Department.

Burlakova, L. E., and A. Y. Karatayev. 2012. Performance Report – Final: State-wide assessment of unionid diversity in Texas. Texas State Wildlife Grants Program, Federal Aid Grant No. T-43, 29 pp. Available online (PDF).

Burlakova, L. E., A. Y. Karatayev, K. Mehler, and S. Daniel. 2017. Lake Erie Survey within Cooperative Science and Monitoring Initiative 2014. Chapter 1. In: Lake Erie and Lake Michigan Benthos: Cooperative Science and Monitoring Initiative. Final Report. USGSGLRI G14AC00263. Great Lakes Center, SUNY Buffalo State, Buffalo, NY. Available at: Lake Erie and Michigan Benthos Survey CSMI 2014-2015 Final Report (PDF).

Schloesser, D. W., R. Griffiths, L. E. Burlakova, and A. Y. Karatayev. 2017. Benthos in Western Lake Erie 2014: Abundances and Distribution at 9 Stations in 1929-30, 1961, 1982, 1993, 2003, 2010, and 2014. Chapter 2. In: Lake Erie and Lake Michigan Benthos: Cooperative Science and Monitoring Initiative. Final Report. USGS-GLRI G14AC00263. Great Lakes Center, SUNY Buffalo State, Buffalo, NY. Available at: Lake Erie and Michigan Benthos Survey CSMI 2014-2015 Final Report (PDF).

Nalepa, T. F., L. E. Burlakova, A. K. Elgin, A. Y. Karatayev, G. A. Lang, and K. Mehler. 2017. Major Findings from the CSMI Benthic Macroinvertebrate Survey in Lake Michigan in 2015 with an Emphasis on Temporal Trends. Chapter 3. In: Lake Erie and Lake Michigan Benthos: Cooperative Science and Monitoring Initiative. Final Report. USGS-GLRI G14AC00263. Great Lakes Center, SUNY Buffalo State, Buffalo, NY. Available at: Lake Erie and Michigan Benthos Survey CSMI 2014-2015 Final Report (PDF).

Mehler, K., L. E. Burlakova, A. Y. Karatayev, and J. Scharold. 2018. Major Findings from the CSMI Benthic Macroinvertebrate Survey in Lake Superior in 2016 with an Emphasis on Temporal Trends. Lake Superior Benthos: Cooperative Science and Monitoring Initiative, Final Report. USGS-GLRI G14AC00263. Great Lakes Center, SUNY Buffalo State, Buffalo, NY. Available at: Lake Superior Benthos Survey CSMI 2016 Final Report (PDF).

Karatayev, A.Y., L. E. Burlakova, K. Mehler, S. E. Daniel, A. K. Elgin, and T. F. Nalepa. 2020. Lake Huron Benthos Survey Cooperative Science and Monitoring Initiative 2017. Technical Report. USEPA-GLRI GL00E02254. Great Lakes Center, SUNY Buffalo State, Buffalo, NY. Available at: Lake Huron Benthos Survey CSMI 2017 Final Report (PDF, 1MB).

Karatayev, A.Y., L. E. Burlakova, K. Mehler, S. E. Daniel, and A. R. Hrycik. 2021. Lake Ontario Benthos Survey Cooperative Science and Monitoring Initiative 2018. Technical Report. USEPA-GLRI GL00E02254. Great Lakes Center, SUNY Buffalo State, Buffalo, NY. Available at: Lake Ontario Benthos Survey CSMI 2018 Final Report (PDF).

Karatayev, A.Y., L. E. Burlakova, A. R. Hrycik, K. Mehler, and S. E. Daniel. 2021. Lake Erie Benthos Survey Cooperative Science and Monitoring Initiative 2019. Technical Report. USEPA-GLRI GL00E02254. Great Lakes Center, SUNY Buffalo State, Buffalo, NY. Available at: Lake Erie Benthos Survey CSMI 2019 Final Report (PDF).

Burlakova, L. E., and A.Y. Karatayev. 2023. Lake Michigan Benthos Survey Cooperative Science and Monitoring Initiative 2021. Technical Report. USEPA-GLRI GL00E02254. Great Lakes Center, SUNY Buffalo State University, Buffalo, NY. Available at: Lake Michigan Benthos Survey CSMI 2021 Final Report (PDF, 1MB).

Burlakova, L. E., A.Y. Karatayev, and S.E. Daniel. 2023. Lake Superior Benthos Survey Cooperative Science and Monitoring Initiative 2022. Technical Report. USEPA-GLRI GL00E02254. Great Lakes Center, SUNY Buffalo State University, Buffalo, NY. Available at: Lake Superior Benthos Survey CSMI 2022 Final Report (PDF, 744KB).

Burlakova, L. E., A.Y. Karatayev, S.E. Daniel, O. Kormilets Makhutova, and N. Barulin. 2024. Lake Huron Benthos Survey Cooperative Science and Monitoring Initiative 2022. Technical Report. USEPA-GLRI GL00E02254. Great Lakes Center, SUNY Buffalo State University, Buffalo, NY. Available at: Lake Huron Benthos Survey CSMI 2022 Final Report (PDF, 2.1MB).

Burlakova, L. E., A.Y. Karatayev, N.V. Barulin, S.E. Daniel, O.N. Makhutova, and L.E. Denecke. 2024. Lake Ontario Benthos Survey Cooperative Science and Monitoring Initiative 2023. Technical Report. USEPA-GLRI GL00E02254. Great Lakes Center, SUNY Buffalo State University, Buffalo, NY. Available at: Lake Ontario Benthos Survey CSMI 2023 Final Report (PDF, 1.8MB).

PRESENTATIONS (123) (presentations made by co-authors are not included, find them in the next list below):

Burlakova, L. E., and L. K. Gerasimova. Physical and chemical regulation of fruit transpiration. All-Union Conference of Young Scientists. March 1985. Kazan, USSR. (Submitted paper) (in Russian).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Burlakova, L. E., A. Y. Karatayev, V. M. Samoilenko, V. F. Ikonnikov, G. G. Vezhnovets, Z. K. Kartashevich, and I. A. Rudakovskiy. Information System "Limnoflora-Limnofauna of Belarus." International Conference on the Problems of the Development of Fish Industry in the Inland Reservoirs in Terms of Transition to Market Economy. October 15-16, 1998. Minsk, Belarus. (Submitted paper) (in Russian).

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

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

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

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

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

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

Burlakova, L. E., A. Y. Karatayev, and D. K. Padilla. Patterns of spread of the Zebra Mussel: 200-years of continuing invasion in Belarus. 21st 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. 21st 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. 11th 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. 107th 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. 2nd 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. 13th 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. 13th 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. 13th 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. 108th 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. 97th 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. 97th 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. 109th 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. 98th 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. 98th 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 thread to rice industry and coastal ecosystems. 14th 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. 8th 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. 15th 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. 30th 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 51st 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. 16th 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. 52nd 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. 10th 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. 10th 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. 53rd 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. 17th 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. 7th 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. 54th 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. 55th 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. 8th 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. 18th 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. 56th 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. 7th 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. 57th 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. 15th 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. 58th 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, 100th 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*. 2nd 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. 59th Annual Conference on Great Lakes Research. June 6-10, 2016. Guelph, Ontario, Canada.

Burlakova, L., A. Karatayev, S. Daniel, and R. Barbiero. Benthic community of Laurentian Great Lakes: Spatial gradients and temporal changes. 33rd Congress of the International Society of Limnology. July 31-August 5, 2016. Turin, Italy.

Burlakova, L., A. Karatayev, and S. Daniel. Long-Term Benthic Monitoring of Laurentian Great Lakes. 17th 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. Karatayev, and S. E. Daniel. Factors affecting spatial and temporal patterns in benthic communities across the Laurentian Great Lakes. American Society of Limnology and Oceanography 2017 Aquatic Sciences Meeting. February 27-March 3, 2017. Honolulu, HI.

Burlakova, L. E., and A. Y. Karatayev. Interactions between unionids and dreissenids: Lessons learned. 10th 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. Karatayev, and B. M. Lesht. Developing water quality indices based on Great Lakes benthos: Traditional and modeling approaches. 60th Annual Conference on Great Lakes Research. May 15-19, 2017. Detroit, MI.

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

Burlakova, L. E., A. Y. Karatayev, and S. Daniel. Effect of *Dreissena* on benthos of Laurentian Great Lakes. 20th 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. 2nd Biennial Canadian Freshwater Mollusc Research Meeting. Canada Centre for Inland Waters. November 8-9, 2017. Plenary talk. Burlington, Ontario, Canada.

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

Burlakova, L. E., R. P. Barbiero, A. Y. Karatayev, S. E. Daniel, and E. K. Hinchey. Long-term biological monitoring of the Laurentian Great Lakes: Spatial and temporal patterns in benthic communities. International Conference "Big Lakes, Small World," European Large Lakes Symposium and International Association for Great Lakes Research (ELLS-IAGLR-2018). September 23-28, 2018. Evian, France.

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

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

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

Burlakova, L., A. Karatayev, A. Hrycik, S. Daniel, K. Mehler, L. Rudstam, J. Watkins, R. Dermott, J. Scharold, A. Elgin, and T. Nalepa. Six decades of Lake Ontario ecological history according to benthos. State of Lake Ontario. 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? 64th annual Conference on Great Lakes Research. May 18-21, 2021. Virtual.

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

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

Burlakova, L. E., A. Y. Karatayev, K. Mehler, and E. Hinchey. Exotic dreissenids transform Great Lakes benthoscapes. 22nd 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. Hinchey, and S. J. Lozano. Six decades of Lake Ontario ecological history according to benthos. Joint Aquatic Sciences Meeting. May 14-20, 2022. Grand Rapids, MI.

Burlakova, L.E., A.Y. Karatayev, K. Mehler, and E. Hinchey. 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*. 13th 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. 66th 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. 37th 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. 67th 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.

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. Ecological Society of America 2024 Meeting. August 4-9, 2024. Long Beach, CA.

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 invasionю. 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.

Karatayev A. Y., L. E. Burlakova, V. A. Karatayev, J. E. Cooper, and L. G. Rudstam. Multiple invasions decimate the most imperiled freshwater invertebrates. 14th Biennial Freshwater Mollusk Conservation Society Symposium. May 12-16, 2025. Ann Arbor-Ypsilanti, MI.

Karatayev, A. Y., and L. E. Burlakova. Benthic research in the Laurentian Great Lakes: Past, present, and a look into the future. 68th Annual Conference on Great Lakes Research. June 2-6, 2025. Milwaukee, WI.

SELECTED PUBLISHED ABSTRACTS: (44)

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

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

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

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

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

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

Karatayev, A. Y., and L. E. Burlakova. 1997. Growth rates of the Zebra mussel under different abiotic conditions. Abstracts of the 62nd Annual Meeting of American Malacological Union. June 29-July 3, 1996. Chicago, IL. p.41.

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

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

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

Molloy, D. P., A. Y. Karatayev, L. E. Burlakova, D. P. Kurandina, and F. Laruelle. 1998. Natural enemies of zebra mussels: predators, parasites and ecological competitors. Abstracts of the 2nd Northeast Conference on Nonindigenous Aquatic Species in Burlington. April 18-19, 1997. Burlington, VT. p.42.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Karatayev, A. Y., L. E. Burlakova, L. K. Volkova, and D. P. Molloy. 2000. Field and laboratory studies of zebra mussel infection by the ciliate *Ophryoglena* sp. Abstracts of the 10th International Zebra Mussel and Aquatic Nuisance Species Conference, Toronto, Canada. pp.66.

Mood, R., A. Karatayev, and L. Burlakova. The impact of *Corbicula fluminea* on zoobenthos. Biodiversity and Ecology of West Gulf Coastal Plain Landscape. Big Thicket Science Conference. October 9 - 12, 2003. Beaumont, TX.

Nesterovitch A., A. Karatayev, and L. Burlakova. Growth and reproduction dynamics of *Corbicula fluminea* (Bivalvia) in Lake Nacogdoches, East Texas. Biodiversity and Ecology of West Gulf Coastal Plain Landscape. Big Thicket Science Conference. October 9-12, 2003. Beaumont, TX.

Minich, O., A. Karatayev, and L. Burlakova. The effect of Macrophytes on zoobenthos community in shallow lakes. Symposium "Natural Resource Management of Military Lands in Texas." Austin, TX. 2005.

Howells, R. G., L. E. Burlakova, and A. Y. Karatayev. Channeled Applesnail: Current US Distribution and Potential Threat to Coastal Ecosystems and Agriculture. 13th International Conference on Aquatic Nuisance Species. September 20-24, 2004. Ennis, Ireland.

Karatayev A. Y., L. E. Burlakova, and D. K. Padilla. Distribution and Impacts of *Dreissena polymorpha* and *Corbicula fluminea*, Two Freshwater Exotic Suspension Feeders. Changes in global economy and trade, and potential spread of exotic freshwater bivalves. 13th International Conference on Aquatic Nuisance Species. September 20-24, 2004. Ennis, Ireland.

Karatayev A. Y., D. K. Padilla, D. Boltovskoy, L. E. Burlakova, and D. Minchin. Changes in global economy and trade, and potential spread of exotic freshwater bivalves. 13th International Conference on Aquatic Nuisance Species. September 20-24, 2004. Ennis, Ireland.

Karatayev A. Y., L. E. Burlakova. *Corbicula fluminea* Distribution in Texas. 108th Annual Meeting of the Texas Academy of Sciences. March 3-5, 2005. Edinburg, TX.

Cartwright L. D., A. Y. Karatayev, L. E. Burlakova, and Hollas D. N. *Pomacea canaliculata* (channeled applesnail) feeding selectivity, reproduction potential, and environmental impact on Texas ecosystems. 108th Annual Meeting of the Texas Academy of Sciences. March 3-5, 2005. Edinburg, TX.

Hollas D. N., A. Y. Karatayev, L. E. Burlakova, and L. D. Cartwright. Applesnail (*Pomacea canaliculata*) distribution, projected spread and population dynamics on Texas Gulf Coast. 108th Annual Meeting of the Texas Academy of Sciences. March 3-5, 2005. Edinburg, TX.

Minich O., A. Y. Karatayev, and L. E. Burlakova. Zoobenthos community in phytoplankton-dominated versus macrophytes-dominated shallow lakes. 108th Annual Meeting of the Texas Academy of Sciences meeting. March 3-5, 2005. Edinburg, TX.

Karatayev A. Y., D. K. Padilla, D. Boltovskoy, L. E. Burlakova, and D. Minchin. Global spread of exotic freshwater bivalves. 97th Annual Meeting of National Shellfisheries Association, April 10-14, 2005. Philadelphia, PA.

Bennett, D. L., L. E. Burlakova, and A. Y. Karatayev. Long-term dynamics of unionid diversity in the Neches River Basin, Texas. 109th Annual Meeting of the Texas Academy of Sciences. March 3-5, 2006. Beaumont, TX.

Cartwright L. D., L. E. Burlakova, A. Y. Karatayev, and Hollas D. N. Applesnail (*Pomacea canaliculata*-complex) feeding selectivity on wetland macrophytes of southeastern Texas. 109th Annual Meeting of the Texas Academy of Sciences. March 3-5, 2006. Beaumont, TX.

Hollas D. N., L. E. Burlakova, A. Y. Karatayev, and L. D. Cartwright. Applesnail (*Pomacea canaliculata*-complex) population dynamics and current distribution in upper Texas Gulf Coast region. 109th Annual Meeting of the Texas Academy of Sciences. March 3-5, 2006. Beaumont, TX.

Karatayev A. Y., D. Boltovskoy, D. K. Padilla, and L. E. Burlakova. Could *Limnoperna fortunei* be worse than *Dreissena polymorpha?* Potential spread and ecosystem impacts. 98th Annual Meeting of National Shellfisheries Association. March 2006. Monterey, CA.

Karatayev, A. Y., L. E. Burlakova, and D. K. Padilla. *Dreissena polymorpha* in Belarus: 200 years of invasion, 70 years of research. 14th International Conference on Aquatic Nuisance Species. May 2006. Key Biscayne, FL.

Cartwright L. D., L. E. Burlakova, A. Y. Karatayev, and Hollas D. N. Applesnail (*Pomacea canaliculata*-complex) feeding selectivity, reproductive potential, and environmental impact on southeastern Texas ecosystems. 14th International Conference on Aquatic Nuisance Species. May 2006, Key Biscayne, FL.

Hollas D. N., L. E. Burlakova, A. Y. Karatayev, and L. D. Cartwright. Applesnail (*Pomacea canaliculata*-complex) distribution, projected spread and population dynamics on the Texas Gulf Coast. 14th International Conference on Aquatic Nuisance Species. May 2006. Key Biscayne, FL.

Karatayev, A. Y., L. E. Burlakova, D. Boltovskoy, and D. K. Padilla. Potential effect of introduction of exotic bivalve *Limnoperna fortunei* on coastal ecosystems. 8th Biennial State of the Bay Symposium "Charting the Course to 2015: People, the Bay, and the Future." January 23-25, 2007. Galveston, TX.

Bennett, D. B., L. E. Burlakova, A. Y. Karatayev and M. J. Cook. Current status and long-term dynamics of unionid bivalves in East Texas. Big Thicket Science Conference. March 22-25, 2007. Beaumont, TX. P. 14.

Cook, M. J., L. E. Burlakova, and A. Y. Karatayev. The effect of abiotic parameters on the distribution and density of unionid bivalves in the Brazos, San Antonio, and Sabine river systems. Big Thicket Science Conference. March 22-25, 2007. Beaumont, TX. P. 16.

Karatayev, A. Y., L. E. Burlakova, D. Boltovskoy, and D. K. Padilla. Bivalve *Limnoperna fortunei*: another potential invader in Texas. Big Thicket Science Conference. March 22-25, 2007. Beaumont, TX. P. 25.

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

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

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

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

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

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

Karatayev, A. Y., L. E. Burlakova, D. K. Padilla, S. Olenin, and S. M. Mastitsky. Invaders are not a random selection of species. Abstracts of 15th International Conference on Aquatic Nuisance Species. September 23-27, 2007. Nijmegen, The Netherlands. P. 178.

Karatayev, A. Y., Burlakova, L. E. Zebra Mussel Impacts on Wisconsin's Lakes: Long-term dynamics and current status of benthic community of Lake Mendota, and potential effects of Zebra mussels. 30th Wisconsin Lakes Convention. April 17-19, 2008. Green Bay, WI. P. 27.

Karatayev, A. Y., Burlakova, L. E., Padilla, D. K., Mastitsky, S. E. and S. Olenin. How freshwater macroinvertebrate invaders differ from native species? IAGLR's 51st Annual Conference on Great Lakes Research (The International Association for Great Lakes Research). May 19-23, 2008. Trent University, Peterborough, Ontario, Canada. P. 74.

Karatayev, A. Y., Burlakova, L. E., Padilla, D. K., Mastitsky, S. E., and S. Olenin. Aquatic invaders are not a random selection of species. 2008 American Society of Limnology and Oceanography Summer Meeting. June 8-13, 2008. St. John's, Newfoundland and Labrador, Canada.

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

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

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

Mastitsky, S. E., M. Hajduk, A. Y. Karatayev, and L. E. Burlakova. Parasites of Exotic Molluscs in the Lake Erie and Lake Ontario Watersheds. 10th Annual 2009 Faculty and Staff Research and Creativity Fall Forum, Buffalo State University. October 29, 2009. Buffalo, NY. Poster.

Mastitsky, S. E., E. Snyder, L. E. Burlakova, and A. Y. Karatayev, A. Y. Case Study on the Population Biology of the New Zealand Mud Snail in Western New York. 10th Annual 2009 Faculty and Staff Research and Creativity Fall Forum, Buffalo State University. October 29, 2009. Buffalo, NY. Poster.

Mastitsky, S. E., L. E. Burlakova, and A. Y. Karatayev. Quagga Mussel Demonstrates Higher Growth and Survival Rates than Zebra Mussel under Experimental Conditions. 10th Annual 2009 Faculty and Staff Research and Creativity Fall Forum, Buffalo State University. October 29, 2009. Buffalo, NY. Poster.

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

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

Hajduk, M. M., S. E. Mastitsky, L. E. Burlakova, and A. Y. Karatayev. Assessing Potential Threats: Parasitological Surveys of Great Lakes Non-Native Species. 20th Annual Great Lakes Research Consortium Conference in SUNY-ESF. March 19-20, 2010. Syracuse, NY. Received Outstanding Student Award in Limnology Session, and a Sea Grant prize in memory of Dr. Donald Rennie.

Karatayev, V. A., A. Y. Karatayev, L. E. Burlakova, and D. K. Padilla. In spite of *Dreissena r. bugensis* dominance, *D. polymorpha* retains a strong potential to invade from the Great Lakes. 20th Annual Great Lakes Research Consortium Conference in SUNY-ESF. March 19-20, 2010.

Syracuse, NY. Received Outstanding Student Award in Limnology Session, and a Sea Grant prize in memory of Dr. Donald Rennie.

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

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

Karatayev, A. Y., L. E. Burlakova, S. E. Mastitsky, D. K. Padilla, and M. Hajduk. Contrasting survival and growth of zebra mussels and quagga mussels under different temperature regimes. 53rd Annual Conference on Great Lakes Research. The International Association for Great Lakes Research. May 17-21, 2010. Toronto, Ontario, Canada.

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

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

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

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

Karatayev, A. Y., L. E. Burlakova, S. E. Mastitsky, D. K. Padilla, E. L. Mills, E. L., and V. A. Karatayev. Competitive ability versus invasion rate: which is a better invader, *Dreissena polymorpha* or *Dreissena rostriformis bugensis*? 2010 American Association of Limnology and Oceanography ASLO/NABS Summer Meeting. June 6-10, 2010. Santa Fe, NM. Abstracts.

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.

Karatayev, A. Y., L. E. Burlakova, S. E. Mastitsky, D. K. Padilla, and E. L. Mills. Invasion paradox: Why *Dreissena rostriformis bugensis*, being less invasive, outcompete *D. polymorpha*? 17th International Conference on Aquatic Nuisance Species. August 29-September 2, 2010. San Diego, CA.

Burlakova, L. E., A. Y. Karatayev, V. A. Karatayev, and M. May. Conservation of freshwater molluscs in Texas. 11th 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. 11th 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). 11th 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. 54th 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. 54th 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. 54th 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. 12th 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*. 4th International Conference "Lake Ecosystems: Biological Processes, Antropogenic 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. 22nd 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. 22nd 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. 55th 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? 55th 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. 55th 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. 55th 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. 55th 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. 55th 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. 55th 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*. 8th 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. 8th 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. 8th 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? 18th 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. 56th 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. 56th 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. 56th 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. 56th 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. 14th 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. 57th 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. 57th 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? 16th 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. 15th 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. 15th 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. 5th 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. 58th 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. 58th 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. 58th 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. 58th 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). 2nd 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. 2nd 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? 2nd 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. 2nd 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. Hinchey. Underwater video is an effective tool to reveal *Dreissena* spatial distribution and biomass. 59th Annual Conference on Great Lakes Research. June 6-10, 2016. Guelph, Ontario, Canada.

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

Karatayev, A. Y., L. E. Burlakova, K. Mehler, S. A. Bocaniov, P. D. Collingsworth, G. Warren, R. T. Kraus, and E. K. Hinchey. Bottom hypoxia is a major driver of *Dreissena* spp. distribution in Lake Erie. 33rd Congress of the International Society of Limnology. July31-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? 33rd 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. 17th 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. 17th 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 8th 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. 10th 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. 10th 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. 10th 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. 60th 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. 60th 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. 60th 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. 60th 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. 60th 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. 60th 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. 20th 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. Hinchey. Underwater video is an effective tool to reveal *Dreissena* spatial distribution. 20th International Conference on Aquatic Invasive Species. October 22-26, 2017. Fort Lauderdale, FL.

Collas, F., A. Karatayev, L. Burlakova, and R. Leuven. Dreissenid mussel dispersal through boat hull mediated overland dispersal. 20th 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. 18th 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. 18th 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. Hinchey. 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. Hinchey. 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. 61st 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. 61st 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. 61st 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. 61st Annual Conference on Great Lakes Research. June 18-22, 2018. Toronto, Ontario, Canada.

Hinchey, E., L. Burlakova, K. Mehler, M. Corcoran, and S. M. C. Bonina. Distribution of grain size and sediment nutrients in Lake Michigan surface sediments. 61st 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. 19th 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. 19th 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. 19th 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. Hinchey. Thirty-five years of EPA monitoring of the lower food web in the Laurentian Great Lakes: An overview of system-wide changes. Association for the Sciences of Limnology and Oceanography 2019 Aquatic Sciences Meeting. February 25-March 1, 2019. San Juan, Puerto Rico.

Bayba, S., L. Burlakova, A. Karatayev, R. Warren, E. Hinchey Malloy, and K. Bockwold. *Dreissena* and benthos: Exploring mechanisms of facilitation and competition. 62nd 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. 62nd 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. 62nd 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. 62nd 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. 62nd 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. 62nd 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. Karatayev, and W. G. Sprules. Size spectra analysis in Lake Ontario detects food web changes and provides insight into energy transfer efficiency. State of Lake Ontario Conference. March 9-11, 2021. Virtual.

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

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

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

Rutherford, E., D. Mason, H. Zhang, B. Weidel, B. Lantry, M. Koops, M. Hossain, C. Chu, C. Boston, G. Arhonditsis, L. Rudstam, K. Fitzpatrick, J. Watkins, K. Holeck, T. Johnson, M. Yuille, E. Brown, J. Holden, K. Fitzpatrick, L. Burlakova, T. Stewart, E. Hinchey, R. Portiss, L. Cartwright, and M. Connerton. Modeling Nutrient and Invasive Species Tipping Points on the Lake Ontario Food Web. State of Lake Ontario Conference. March 9-11, 2021. Virtual.

Hrycik, A. R., L. E. Burlakova, and A. Y. Karatayev. Biomass Estimates for Benthic Invertebrates of the Great Lakes. 64th Annual Conference on Great Lakes Research. May 18-21, 2021. Virtual.

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

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

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

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

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

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

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

Daniel, S. E., L. E. Burlakova, A. Y. Karatayev, I. Porto-Hannes, P. D. N. Hebert, M. E. Pfrender, D. Lodge, A. Trebitz, and S. Westergaard. Challenges to DNA barcoding: an ecologist's perspective. Joint Aquatic Sciences Meeting. May 14-20, 2022. Grand Rapids, 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. Hinchey, R. Dermott, G. W. Kennedy, and R. Griffiths. Long-term dynamics of Lake Erie benthos: One lake, three distinct communities. Joint Aquatic Sciences Meeting. May 14-20, 2022. Grand Rapids, MI.

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

Karatayev, A. Y. and L. Burlakova. *Dreissena* in the Great Lakes: What have we learned in 35 years of invasion. 13th 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. 66th 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. 66th 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. 37th 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. 67th 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. 67th 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. 67th 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. 67th 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. 67th 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. 67th 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. 67th 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. 67th 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. 67th 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. 67th 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. Karatayev, and K. Mehler. "Ecology and Conservation of Freshwater Bivalves." *Hydrobiologia*. 810(1). Published March 2018 (34 papers).

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

Lopes-Lima, M. P. M., L. E. Burlakova, T. H. Ng, A. Zieritz, and R. G. Sousa. 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

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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

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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

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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 33rd Congress of the International Society of Limnology. July31-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