

**DMITRY BELETSKY**  
Research Scientist  
CIGLR, SEAS, University of Michigan

**ADDRESS**

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**EDUCATION**

1992 Ph.D., Physical Limnology/ Oceanography, Institute of Limnology,  
Russian Academy of Sciences, St.Petersburg, Russia.

1982 M.S., Marine Engineering, Russian State Hydrometeorological University, St.Petersburg, Russia.

**RESEARCH INTERESTS**

- Lake Hydrodynamics
- Hydrodynamic Forecast Systems and Model Evaluation
- Ice Processes and Modeling
- Coastal Meteorology
- Physical-biological coupling

**PROFESSIONAL EXPERIENCE**

2015-present Research Scientist, CIGLR, SEAS, University of Michigan  
2009-2015 Associate Research Scientist, CILER, SNRE, University of Michigan  
2004-2009 Assistant Research Scientist, CILER, SNRE, University of Michigan  
1998-2004 Assistant Research Scientist, Department of Naval Architecture and Marine Engineering,  
University of Michigan  
1995-1998 Research Fellow, CILER, University of Michigan.  
1994-1995 Visiting Scientist, NOAA Great Lakes Environmental Research Laboratory  
1992-1994 Associate Research Scientist, Institute for Lake Research,  
Russian Academy of Sciences, St.Petersburg, Russia  
1989-1992 Assistant Research Scientist, Institute for Lake Research,  
Russian Academy of Sciences, St.Petersburg, Russia  
1986-1989 Research Assistant, Institute for Lake Research,  
Russian Academy of Sciences, St.Petersburg, Russia  
1985-1986 Research and Teaching Assistant, Russian State Hydrometeorological University,  
St.Petersburg, Russia

**RECOGNITIONS AND AWARDS**

- Chandler-Misener Award (for most notable paper), International Association for Great Lakes Research, 2015, <http://www.iaglr.org/as/cm.php>
- AGU Editor's Highlight paper, 2012 <http://www.agu.org/pubs/journals/highlights.shtml>
- Chandler-Misener Award (for most notable paper), International Association for Great Lakes Research, 2008, <http://www.iaglr.org/as/cm.php>
- Scientific Achievement Award, CILER, University of Michigan, 2007
- Outstanding Scientific Paper Award, NOAA Office of Oceanic and Atmospheric Research, 2006
- Best Scientific Paper Award, NOAA GLERL, 2004
- Research Scholarship, Central European University, Budapest, Hungary, 1994
- Central European University Summer Fellowship, Budapest, Hungary, 1993

## **MEDIA EXPOSURE**

### **Articles on JGLR 2017 paper**

ReNew Canada & Water Canada

<http://watercanada.net/2017/modeling-the-spread-of-aquatic-invasive-species-in-great-lakes/>

CIGLR Spring 2017 eNewsletter

[https://ciglр.seas.umich.edu/spring-2017-e-newsletter/featured-research-invasive-hitchhikers](https://ciglر.seas.umich.edu/spring-2017-e-newsletter/featured-research-invasive-hitchhikers)

### **Articles (select) on PNAS 2013 paper**

Science

<http://news.sciencemag.org/sciencenow/2013/04/scienceshot-an-algal-bloom-for-t.html?ref=hp>

Time

<http://science.time.com/2013/04/02/report-predicts-ever-bigger-lake-erie-algae-blooms/>

National Geographic

<http://news.nationalgeographic.com/news/2013/04/pictures/130423-extreme-algae-bloom-fertilizer-lake-erie-science/>

### **Articles on GRL 2012 paper**

Earth, American Geosciences Institute. Lake Erie has it all backward. August 2012, vol.57, No 8.

AGU Research Spotlight paper, *EOS, Transactions of the American Geophysical Union*, vol. 93, no 21, May 22, 2012. <http://onlinelibrary.wiley.com/doi/10.1029/2012EO210014/abstract>

## **PROFESSIONAL ORGANIZATIONS**

- International Association for Hydraulic Research (2014-2016)
- Great Lakes Observing System (since 2009)
- International Association for Great Lakes Research (since 1994)
- American Geophysical Union (since 1994)
- American Meteorological Society (since 1994)
- Russian Geographical Society (since 1987)

## **PROFESSIONAL SERVICE**

**Member, CIGLR Council of Fellows (2011- 2016)**

**Editor (jointly with J. Wang and H.T Shen):**

- Proceedings of the 23rd IAHR International Symposium on Ice. Ann Arbor, Michigan, USA, May 31-June 3, 2016. Published by: International Association for Hydro-Environment Engineering and Research -IAHR- P<sup>a</sup> Bajo Virgen del Puerto, 3 28005 Madrid, Spain. Copyright: IAHR, 2016. ISSN: 2414-6331

**Conference Co-Chair:**

- IWMO 2022, Ann Arbor, MI, 2022

- IAHR International Symposium on Ice, Ann Arbor, MI, 2016

**Session Chair:**

- International Association for Great Lakes Research, 2005-2019
- Ocean Sciences Meeting (American Geophysical Union), 2012-2014

**Manuscript Reviewer:** *American Geophysical Union, American Society of Civil Engineers, Aquatic Sciences, Boreal Environment Research, Canadian Journal of Fisheries and Aquatic Sciences, Dynamics of Atmospheres and Oceans, Estuaries and Coasts, Estuarine, Coastal and Shelf Sciences, Journal of Atmospheric and Oceanic Technology, Journal of Geophysical Research (Oceans), Journal of Great Lakes Research, Journal of Hydraulic Engineering, Journal of Limnology, Journal of Marine Research, Journal of Marine Sciences, Journal of River Basin Management, Limnology and Oceanography, Monthly Weather Review, Natural Hazards, Ocean Dynamics, Water Resources Research, Water Quality Research Journal of Canada.*

**Proposal Reviewer:**

- CAMEO (Comparative Analysis of Marine Ecosystem Organization - joint NOAA-NSF initiative)
- Cataraqui Region Conservation Authority (Canada)
- Great Lakes Fishery Commission
- National Science Foundation
- NOAA
- University of Minnesota Grand Challenges Research initiative
- University of Wisconsin Milwaukee, Office of Research
- Wisconsin Sea Grant

**Consultant:**

- Baird & Associates (Canada)
- HydroQual (USA)
- LimnoTech (USA)
- National Hydraulic Research Institute (Canada)
- National Water Research Institute (Canada)
- Pirkanmaa Regional Environment Centre (Finland)

**Professional Activities:**

- Invited participant, Lake Champlain – Richelieu River Study Meeting, April 4-6, 2018, Venise-en-Quebec, Canada
- Invited participant, Meteotsunami Forecasting and Warning System Workshop, June 29-21, 2017, Ann Arbor, MI.
- Invited participant, GREAT LAKES WATER QUALITY AGREEMENT PHOSPHORUS LOAD RESPONSE MODELING MEETING, April 9-10, 2014, Ann Arbor, MI
- Invited participant, Great Lakes Commission Workshop. November 28-29, 2012, Ann Arbor, MI
- Invited participant, University of Michigan sponsored workshop “The North American Great Lakes: Comparisons with the Baltic Sea”, February 20, 2007, Ann Arbor, MI.
- Invited participant, IOOS Community Modeling Workshop, November 28-29, 2006, Washington, DC.
- Invited participant, Lake Michigan Mass Balance Project modeling peer review. July 27-28, 2004, Romulus, MI.
- Invited participant, EPA-sponsored workshop on beach closure forecasting. November 2003, Cincinnati, OH.
- Invited participant, NOAA Sponsored Great Lakes Issues Workshop, January 20-21, 2003, Ann Arbor, MI.

- Advisor Member, ASCE Task Committee on Climatic Effects on Lake Hydrodynamics and Water Quality, 1994-99.
- Invited participant, NOAA Sponsored Remote Sensing and Modeling Great Lakes Ice Workshop, October 8-9, 1997, Alexandria, VA.
- Invited participant, Russian-Finnish Physical limnology workshop, November 19-20, 1988, Petrozavodsk, Russia.
- Participant in 10 scientific expeditions to the North Atlantic Ocean, the Mediterranean Sea, the Baltic sea, the Great Lakes and largest European lakes.

## GRADUATE STUDENT ADVISOR/SPONSOR/COMMITTEE MEMBER

Journ Galvan (SEAS, 2021-2023)  
 Joshua Habib (SEAS, 2021-2023)  
 Kaelan Weiss (U. Minnesota-Duluth, CIGLR summer fellow, 2020)  
 Holly Roth (NMU, CIGLR summer fellow, 2019)  
 Huayun Zhou (SEAS, 2016 - 2019)  
 Kimberly Huinh (NWU, CILER summer fellow, 2014)  
 Xioashen Yin (SNRE, 2011 - 2013)  
 Daniel Rucinski (SNRE, 2008- 2013)  
 Eric Maxeiner (NAME, 1999-2001)  
 Sophie Ancel (NAME, 2002-2003)  
 Chenshin Li (Statistics, 2003-2004)  
 Kathryn Clevenger (NAME, 2004)

## VISITING SCIENTIST MENTORING

Yaru Lee (2020)  
 Qiongqiong Cai (2019)

## RESEARCH GRANTS (over \$6.6M total)

Beletsky, D. (PI). Lake Champlain Hydrodynamic Flood Forecasting System. (International Joint Commission via NOAA GLERL), 2017-2022	\$768,895
Manome, A., Beletsky, D. (co-PI). Developing Great Lakes Earth System Model (GLESM). (NOAA GLERL), 2021-2022	\$153,000
Beletsky, D. (PI). National Water Model for Great Lakes (NOAA GLERL), 2021-2022	\$23,930
Beletsky, D. (PI). IWMO 2022. (NOAA GLERL), 2021-2022	\$29,999
Beletsky, D. (PI). Determining the Best Approach for Integrating Hydrologic and Hydrodynamic-Ice Forecast Modeling Systems to Improve NOAA's Short-Range Lake Forecast Guidance for Great Lakes Ports. (NOAA GLERL), 2021-2022	229,997
Beletsky, D. (PI). Ice-wave-current interactions in Lake Erie. (NOAA GLERL), 2020-2022	\$22,450
Beletsky, D. (PI). Developing a decision support tool for agricultural nutrient application timing using the National Weather Service National Water Model framework. (EPA via NOAA GLERL), 2019-2020	\$369,877
Beletsky, D. (PI) GLRI Nearshore: Circulation and Thermodynamics (EPA via NOAA GLERL), 2016-2017	\$163,307

Stow, C., E. Anderson, S. Ruberg, D. Mason, M. Rowe, T. Johengen, D. Beletsky ( <b>Co-PI</b> ), H. Zhang, A. Burton, S. Moegling, P. Collingsworth. LEOFS-Hypoxia: Operational Lake Erie Hypoxia Forecasting. (NOAA NOS NCCOS) 2016-2021. Total project cost \$575,421	\$85,000
Beletsky, D. ( <b>PI</b> ) Lake Circulation and GLCFS: Can HRRR meteorological forcing conditions be used to improve hydrodynamic forecasting skill? (NOAA GLERL), 2015-2017	\$59,780
Beletsky, D. ( <b>PI</b> ) Great Lakes Heat Budget-Water Budget Connections (NOAA GLERL), 2015-2017	\$40,896
Beletsky, D. ( <b>PI</b> ) CILER Hosting 2016 IAHR International Ice Symposium (NOAA GLERL)	\$39,190
Duhaime, M., K. Wigginton, D. Beletsky ( <b>Co-PI</b> ). Microplastics in the Great Lakes: Towards establishing a long-term multidisciplinary research platform to assess the impact of microplastics on Laurentian Great Lakes ecosystem health. (UM WATER Center, 2014-2015)	\$270,463
Mason, D., E.S. Rutherford, A. Adamack, H. Zhang, D. Beletsky ( <b>Co-PI</b> ). Assessing risk of Asian carp invasion and impacts on Great Lakes food webs and fisheries. (USFWS, 2011-2014) Total project cost \$595,992.	\$551,409
Lodge, D.M., L. Chadderton, R. Jensen, E.S. Rutherford, D. Beletsky ( <b>Co-PI</b> ) et al. Forecasting spread and bioeconomic impacts of aquatic invasive species from multiple pathways to improve management and policy in the Great Lakes. (NOAA CSCOR-EPA GLRI), 2010-2015. Total project cost \$4,949,120.	\$585,665
Roehm, C.L., S. Vermette, E.J. Anderson, D. Beletsky ( <b>Co-PI</b> ), V. Santos and L. Blume. Observing systems and monitoring in nearshore Lake Erie. (EPA GLRI), 2010-2013. Total project cost \$962,583.	\$169,056
Michalak, A., D. Posselt, D. Scavia, A. Steiner, D. Brown, D. Beletsky ( <b>Co-PI</b> ) et al. Extreme events impacts on water quality in the Great Lakes: Prediction and management of nutrient loading in a changing climate. (NSF CBET 1039043), 2011-2015, Total project cost \$4,992,854.	\$332,824
Beletsky, D., ( <b>PI</b> ). Developing a predictive model of the hydrodynamics of Lake Champlain. Lake Champlain Research Consortium, 2010-2011	\$75,600
Beletsky, D., ( <b>PI</b> ). Measuring and modeling the impact of ice on surface fluxes, thermal structure and circulation in Lake Erie. (NSF OCE 0927643), 2009-2014.	\$606,770
Beletsky, D. ( <b>PI</b> ). Hydrodynamic modeling system to predict real-time circulation and thermal structure in Lake Champlain (NOAA OAR #NA06OAR4600224), 2006-2009.	\$132,254
Beletsky, D. ( <b>PI</b> ). High-resolution hydrodynamic model of Lake Ontario (National Water Research Institute, Environment Canada), 2008.	\$10,000
Wang, J. and D. Beletsky ( <b>Co-PI</b> ). Modeling Great Lakes ice and revealing linkage between lake ice and climate patterns (NOAA GLERL), 2008.	\$84,336
Stow, C., S. Brandt, T. Croley, J. Dyble, G. Fahnenstiel, T. Nalepa, S. Pothoven, H. Vandeploeg, S. Peacor, M. Kaplowitz, F. Lupi, T. Hook, D. Beletsky ( <b>Co-PI</b> ) et al. MultiStress 07. Adaptive Integrated Framework (AIF): a new methodology for managing impacts of multiple stressors in coastal ecosystems (NOAA/NOS/CSCOR), 2007-2012. Total project cost \$3.5M.	\$300,446

Scavia, D., R.Bierbaum, D. Beletsky ( <b>Co-PI</b> ) et al. The Cooperative Institute for Limnology and Ecosystems Research: A new Great Lakes regional institute, (NOAA OAR) 2006-2011.	\$220,000
Scavia, D., L. Sano, D. Allan, D. Beletsky ( <b>Co-PI</b> ) et al., Ecofore 2006: Forecasting the causes and impacts of Lake Erie hypoxia (NOAA/NOS/CSCOR), 2006-2011. Total project cost \$2.5M.	\$150,000
Beletsky, D., ( <b>PI</b> ). D. Schwab, and M. McCormick. Nearshore transport: modeling, observations and beach closure forecasting (NOAA Center of Excellence for Great Lakes and Human Health), 2004-2009.	\$416,162
Beletsky, D. ( <b>PI</b> ) and D. Schwab, Lake Erie hydrodynamic modeling (GLERL), 2004-2009.	\$47,095
Beletsky, D. ( <b>PI</b> ). Modeling wind-induced circulation in Lake Champlain: effects of bathymetry and stratification (GLERL), 2005	\$36,000
Stein, M., B. Lesht, D. Schwab, and D. Beletsky ( <b>Co-PI</b> ). Integrating numerical models and statistical methods. (EPA), 2003-2008 Total project cost \$6.0M.	\$18,776
Beletsky, D., ( <b>PI</b> ). D. Mason, E. Rutherford, D. Schwab, M. McCormick, H. Vanderploeg, and J. Janssen. Modeling the influence of lake circulation patterns, upwelling events and turbulence on fish recruitment variability in Lake Michigan. (Great Lakes Fishery Trust), 2002-2005.	\$349,797
Schwab, D. and D. Beletsky ( <b>Co-PI</b> ). Episodic Events Great Lakes Experiment – Hydrodynamic Modeling Program, (NOAA Coastal Ocean Program), 1998-2003. Total project cost \$10M.	\$600,323
Beletsky, D., ( <b>PI</b> ). D.Schwab, J. Saylor, and G. Miller. Modeling Sediment Resuspension due to Internal Seiches in Lake Champlain (GLERL), 2000.	\$14,056
Schwab, D., D. Beletsky ( <b>Co-PI</b> ), and P.Beier. Lake Michigan Flow Visualization on the World Wide Web (GLERL), 1999.	\$11,060
Beletsky, D. ( <b>PI</b> ) and J. Saylor. Numerical Modeling of Internal Seiches in Lake Champlain (GLERL), 1999.	\$11,824
Beletsky, D. ( <b>PI</b> ). Research Scholarship Award. (Central European University, Budapest, Hungary), 1994.	\$20,000

## INVITED TALKS

- Great Lakes Commission Workshop. November 28-29, 2012, Ann Arbor, MI
- University of Notre Dame, December 2, 2011, South Bend, IN.
- Buffalo State College Great Lakes Center, May 13, 2010, Buffalo, NY.
- Lake Michigan Technical Committee Meeting, 23-24 August, 2008, Traverse City, MI.
- University of Michigan, February 20, 2007, Ann Arbor, MI.

- Michigan State University, November 7, 2006, East Lansing, MI.
- Lake Erie Millenium Network Conference, February 28- March2, 2006, Windsor, ON.
- EPA Workshop on Beach Closure Forecasting. November 29, 2004, Cincinnati, OH.
- Lake Michigan Mass Balance Project PCB modeling peer review. July 27-28, 2004, Romulus, MI.
- University of Wisconsin-Milwaukee, 4 June, 2003 Milwaukee, WI.
- NOAA Great lakes Issues Workshop. January 20-21, 2003, Ann Arbor, MI.
- NOAA Remote Sensing and Modeling of Great Lakes Ice Workshop, October 8-9, 1997, Alexandria, VA.
- National Hydraulic Research Institute, September 10, 1994, Saskatoon, Saskatchewan, Canada
- University of Joensuu, February 20, 1994, Joensuu, Finland.
- Physical Limnology and Water Quality Modeling of Large Lake Systems workshop, October 19-23, 1992, Petrozavodsk, Russia
- Institute of Numerical Mathematics, October 6, 1988, Moscow, Russia

#### **Outreach Activities:**

- Science judge, National Ocean Science Bowl-2005, February 2005, Ann Arbor, MI.
- Science judge, Southeastern Michigan Science Fair-1999, 2000, 2001 Ann Arbor, MI
- Science enhancement program, Ocean Science Bowl (Midwest), February 1998, Ann Arbor, MI

#### **PEER-REVIEWED PUBLICATIONS**

63. Cai, Q., D. Beletsky, J. Wang and R. Lei. 2021. Interannual and decadal variability of summer Arctic sea-ice associated with atmospheric teleconnection patterns during 1850-2017. *J. Climate*, 9931-995, DOI: 10.1175/JCLI-D-20-0330.1

62. Li, Y. D. Beletsky, J. Wang, J. Austin, J. Kessler, A. Fujisaki-Manome, and P. Bai. 2021. Modeling a Large Coastal Upwelling Event in Lake Superior. *J. Geophys. Res. Oceans*. 126, e2020JC016512, doi.org/10.1029/2020JC016512

61. Cai, Q., J. Wang, D. Beletsky, J. Overland, M. Ikeda, L. Wan. 2021. Accelerated Decline of Summer Arctic Sea Ice during 1850-2017 and the amplified Arctic warming during the recent decades. *Environ. Res. Lett.* 16 (2021) 034015, doi: 10.1088/1748-9326/abdb5f

60. Bai, P, J. Wang, P. Chu, N. Hawley, A. Fujisaki-Manome, J. Kessler, B. Lofgren, Y. Li, D. Beletsky, and E. Anderson. 2020. Modeling the ice-attenuated waves in the Great Lakes. *Ocean Dynamics*. <https://doi.org/10.1007/s10236-020-01379-z>

59. M. D. Rowe, E. J. Anderson, D. Beletsky, C. A. Stow, Scott D. Moegling, Justin D. Chaffin, Jeffrey C. May, P. D. Collingsworth, A. Jabbari, J. D. Ackerman. 2019. Coastal upwelling influences hypoxia spatial patterns and nearshore dynamics in Lake Erie. *J. Geophys. Res. Oceans*. *Doi.: 10.1029/2019JC015192*
58. Hawley, N., D. Beletsky and J. Wang. 2018. Ice thickness measurements in Lake Erie during the winter of 2010-2011, *J. Great Lakes Res* *doi.:10.1016/j.jglr.2018.04.004*
57. Kramer, Annis, Wittmann, Chadderton, Rutherford, Lodge, Mason, Beletsky, Riseng. 2017. Suitability of Great Lakes for aquatic invasive species based on global species distribution models and local aquatic habitat. *Ecosphere* 8(7):e01883. *10.1002/ecs2.1883*
56. Cable, R. N., D. Beletsky, R. Beletsky, K. Wigginton, B.W. Locke and M.B. Duhaime. 2017. Distribution and modeled transport of plastic pollution in the Great Lakes, the world's largest freshwater resource. *Front. Environ. Sci.* 5:45. *doi: 10.3389/fenvs.2017.00045*
55. Beletsky, D. R. Beletsky, E. S. Rutherford, J.L. Sieracki, J. M. Bossenbroek, W. L. Chadderton, M. E. Wittmann, G. M. Annis and D. M. Lodge. 2017. Predicting spread of aquatic invasive species by lake currents.. *J. Great Lakes Res*, *doi.:10.1016/j.jglr.2017.02.001*.
54. Wittman, M. E., G. Annis, A.M. Kramer, L. Mason, C. Riseng, E. S. Rutherford, W. L. Chadderton, D. Beletsky, J. M. Drake, D. M. Lodge. 2017. Refining species distribution model outputs using landscape scale habitat data: Forecasting Grass Carp and *Hydrilla verticillata* establishment in the Great Lakes Region. *J. Great Lakes Res.* 43,298-307.
53. Lodge D. M., P.W. Simonin, S. W. Burgiel, R. P. Keller, J. M. Bossenbroek, C. L. Jerde, A. M. Kramer, E. S. Rutherford, M. A. Barnes, M. E. Wittmann, W. L. Chadderton, J. L. Apriesnig, D. Beletsky, R. M. Cooke, J. M. Drake, S. P. Egan, D. C. Finnoff, C. A. Gantz, E. K. Grey, M. H. Hoff, J. G. Howeth, R. A. Jensen, E. R. Larson, N. E. Mandrak, D. M. Mason, F. A. Martinez, T. J. Newcomb, J. D. Rothlisberger, A. J. Tucker, T. W. Warziniack, and H. Zhang, 2016. Risk analysis and bioeconomics of invasive species to inform policy and management. *Annual Review of Environment and Resources* 41: (Volume publication date November 2016).
52. Tucker, A.J, W. L. Chadderton, C. L. Jerde, M. A. Renshaw, K. Uy, C. Gantz, A. R. Mahon, A. Bowen, T. Strakosh, J. M. Bossenbroek, J. L. Sieracki, D. Beletsky, J. Bergner, and D. M. Lodge. 2016. A sensitive environmental DNA (eDNA) assay leads to new insights on Ruffe (*Gymnocephalus cernua*) spread in North America. *Biological Invasions*, DOI 10.1007/s10530-016-1209-z
51. Rucinski, D.K., J. V. DePinto, D. Beletsky and D. Scavia. 2016. Modeling Hypoxia in the Central Basin of Lake Erie under Potential Phosphorus Load Reduction Scenarios. *J. Great Lakes Res.* 42,1206-1211.
50. Gronewold, A.D, E. J. Anderson, B. Lofgren, P. D. Blanken, J. Wang, J. Smith, T. Hunter, G. Lang, C. A. Stow, D. Beletsky, J. Bratton. 2015. Impacts of extreme 2013-2014 winter conditions on Lake Michigan's fall heat content, surface temperature and evaporation. *Geophys. Res. Lett.*, 42, *doi:10.1002/2015GL063799*.
49. Zhou, Y., A. M. Michalak, D. Beletsky, Y. R. Rao, R. P. Richards. 2015. Record-breaking Lake Erie hypoxia during 2012 drought. *Environ. Sci. Technol.*, 49 (2), pp 800–807.
48. Rucinski, D.K., D. Scavia, J. V. DePinto, and D. Beletsky. 2014. Lake Erie's hypoxia response to nutrient loads and meteorological variability. *J. Great Lakes Res.*, 40, Supplement 3 (2014), 151–161
47. Scavia, D., J. D. Allan, K. K. Arend, S. Bartell, D. Beletsky, N. S. Bosch, S. B. Brandt, R.D. Briland, I. Daloglu, J. V. DePinto, D. M. Dolan, M. Anne Evans, D. Goto, H. Han, T. O. Hook, R. Knight, S. A. Ludsins, D. Mason, A. M. Michalak, P. R. Richards, J. J. Roberts, D. K. Rucinski, E. Rutherford, D. J. Schwab, T. Sesterhenn, H. Zhang, Y. Zhou. 2014. Assessing and addressing the re-eutrophication of Lake Erie. *J. Great Lakes Res.* 40, 226-246

46. Hawley, N., T. Redder, R. Beletsky, E. Verhamme, D. Beletsky, J. V. DePinto. 2014. Sediment resuspension in Saginaw Bay, *J. Great Lakes Res. Supplement* 40 (2014), 18-27.
45. Beletsky, D., N. Hawley, Y.R. Rao. 2013. Modeling summer circulation and thermal structure of Lake Erie. *J. Geophys. Res. Oceans*, 118, doi: 10.1002/2013JC008854
44. Michalak, A.M., E.J. Anderson, D. Beletsky, S. Boland, N.S. Bosch, T.B. Bridgeman, J.D. Chaffin, K.H. Cho, R. Confesor, I. Daloglu, J.V. DePinto, M.A. Evans, G.L. Fahnenstiel, L. He, J.C. Ho, L. Jenkins, T.H. Johengen, K.C. Kuo, E. Laporte, X. Liu, M. McWilliams, M.R. Moore, D.J. Posselt, R.P. Richards, D. Scavia, A.L. Steiner, E. Verhamme, D.M. Wright, and M.A. Zagorski. 2013. Record-setting algal bloom in Lake Erie caused by agricultural and meteorological trends consistent with expected future conditions. *Proceedings of the National Academy of Sciences*:5 pp. (DOI:10.1073/pnas.1216006110)
43. Beletsky, D., N. Hawley, Y.R. Rao, H. A. Vanderploeg, R. Beletsky, D. J. Schwab and S.A. Ruberg. 2012. Summer thermal structure and anticyclonic circulation of Lake Erie, *Geophys. Res. Lett.*, 39, L06605, doi:10.1029/2012GL051002.
42. Arend, K. K., D. Beletsky, J. V. DePinto, S. A. Ludsin, J. J. Roberts, D. K. Rucinski, D. Scavia, D. J. Schwab, and T. O. Höök. 2011. Seasonal and interannual effects of hypoxia on fish habitat quality in central Lake Erie, *Freshwater Biology*, 56, 366-383.
41. Stroud J., M. Stein, B. Lesht, D.J. Schwab, and D. Beletsky. 2010. An Ensemble Kalman Filter and Smoother for Satellite Data Assimilation. *J. of American Statistical Association*, vol 105, no.491: 978-990 .
40. Rucinski, D. K, D. Beletsky, J.V. Depinto, D. Schwab, and D. Scavia. 2010. A simple 1-dimensional climate based dissolved oxygen model for central basin of Lake Erie. *J. Great Lakes Res.* 36, 465-476.
39. Wang, J., H. Hu, D. Schwab, G. Leshkevich, D. Beletsky, N Hawley, and A. Clites. 2010. Development of the Great Lakes Ice-circulation Model (GLIM): Application to Lake Erie in 2003-2004. *J. Great Lakes Res.*, 36, 425-436.
38. Thupaki, P., M. S. Phanikumar, D. Beletsky, D. J. Schwab, M. B. Nevers, and R. L. Whitman. 2010. Budget analysis of *Escherichia coli* at a southern Lake Michigan beach based on three-dimensional transport modeling. *Environ. Sci. Technol.* 44, 1010-1016.
37. Schwab, D.J., D. Beletsky, J. DePinto, and D. M. Dolan. 2009. A hydrodynamic approach to modeling phosphorus distribution in Lake Erie. *J. Great Lakes Res.* 35, 50-60.
36. Stroud J., B. M. Lesht, D.J. Schwab, D. Beletsky, and M. L. Stein. 2009. Assimilation of satellite images into a sediment transport model of Lake Michigan. *Wat. Resour. Res.* 45, W02419, doi:10.1029/2007WR006747.
35. Beletsky, D. and D.J. Schwab. 2008. Climatological circulation in Lake Michigan. *Geophys. Res. Lett.*, 35, L21604, doi:10.1029/2008GL035773.
34. McCormick, M.J. T.O. Manley, D.Beletsky, A.J. Folew III, and G.L. Fahnenstiel. 2008. Tracking the surface flow in Lake Champlain. *J. Great Lakes Res.* 34, 721-730.
33. Schertzer, W.M., R.A. Assel, D. Beletsky, T.E. Croley II, B.M. Lofgren, J.H. Saylor, and D.J. Schwab. 2008. Lake Huron climatology, inter-lake exchange and mean circulation. *Journal of Aquatic Ecosystem Health & Management*, 11(2), 144–152.
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167. Beletsky, R., D. Beletsky, J. L. Sieracki, J.M., Bossenbroek, W.L. Chadderton, and E., Rutherford. Modeling spread of invasive species by lake currents. 16th Workshop on Physical Processes in Natural Waters, Queensland, Australia, 8-11 July 2013.

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165. Beletsky, D., H.Hu, J. Wang, and N. Hawley. Modeling winter circulation and thermal structure in Lake Erie. IAGLR, June 2-6, 2013, West Lafayette, IN.
164. Bossenbroek, J.M., J. L. Sieracki, D. Beletsky. A Multi-model Approach to Identify Possible Locations to Conduct Ballast Water Exchange in the Laurentian Great Lakes. IAGLR, June 2-6, 2013, West Lafayette, IN.
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- 157\*. D. Beletsky. Potential impacts of offshore wind farms on lake currents. Offshore Wind Energy – Understanding Impacts on Great Lakes Fishery and other Aquatic Resources. Great Lakes Commission Workshop. November 28-29, 2012, Ann Arbor, MI
156. Sesterhenn, T.S, D. Goto, D. K. Rucinski, J. V. DePinto, D.Beletsky, S. A. Ludsin, and T. Höök. Modeling vertical movements of Lake Erie fishes: comparing different movement rules and different measurement scales with field observations. AFS 2012, Aug. 19-23, St. Paul, MN
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150. Anderson, E. J., Beletsky, D. Schwab, D. J., INVESTIGATING NEARSHORE HYDRODYNAMICS IN LAKE ERIE: TRANSPORT AND PLUME DYNAMICS NEAR TRIBUTARY MOUTHS AND ASSOCIATED AREAS OF CONCERN (AOC). 2012 Ocean Sciences Meeting, February 20-24, 2012, Salt Lake City, Utah.
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147. Beletsky, D., R. Beletsky and N. Hawley. 2011. Modeling interannual variability of circulation in Lake Huron. IAHR International Symposium on Stratified Flows (ISSF2011), August 22-26, 2011, Rome, Italy.
146. Rutherford, E., D. Mason, D. Schwab, J. Wang, D. Beletsky, L. Luo, and T. Hook. 2011. Biophysical studies of fish recruitment dynamics in Lake Michigan: Past, present, future. GLFC sponsored workshop: Physical-biological coupling and fish recruitment in large lakes: State of knowledge and opportunities for progress, 16-17 August 2011, Romulus, MI.
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- 144.\*Beletsky, D. 2010. Larval Transport Modeling in the Great Lakes. Great Lakes Binational Asian Carp Risk Assessment Science Working Group Meeting, November 16-18, 2010, Detroit, MI.
143. BELETSKY, D., D.J. SCHWAB, D.M. MASON, E. RUTHERFORD, M.J. McCORMICK, H.A. VANDERPLOEG, J. Janssen, D. Clapp, and J. Dettmers. 2010. Modeling the transport of larval yellow perch in Lake Michigan (poster). GLERL Program Review, Ann Arbor, MI, November 16-18, 2010. NOAA, Great Lakes Environmental Research Laboratory
142. Beletsky, D., R. Beletsky and N. Hawley. 2010. Modeling waves, thermal structure and circulation in Lake Huron. GLERL Webinar. November 4, 2010, Ann Arbor, MI.
141. Hunter, T., E. Rutherford, D. M. Mason, D. MacNeill, D. Schwab. And D. Beletsky 2010. Forecasting Spatial Distributions of Salmonines in Lake Michigan. American Fisheries Society meeting, September 2010, Pittsburgh, PA.
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139. Beletsky, D. 2010. Measurements and modeling of circulation and ice in the Great Lakes. NASA-NOAA Great Lakes workshop, July 19, 2010, Ann Arbor, MI.
138. Beletsky, D., R. Beletsky, D. Schwab, E.Anderson, and G. Lang. 2010. Modeling circulation in Lake Huron. The 14<sup>th</sup> Workshop on Physical Processes in Natural Waters, June 28- July 1, 2010, Reykjavik, Iceland.
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Erie. IAGLR 2010. May 17-21, 2010, Toronto, ON.

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134\* Beletsky, D. Modeling thermal structure and circulation in the Great Lakes. Buffalo State College Great Lakes Center, May 13, 2010, Buffalo, NY.

133. Beletsky, D. and D. Schwab. 2009. Modeling climatological circulation in Lake Michigan. The 13<sup>th</sup> Workshop on Physical Processes in Natural Waters, September 1-4, 2009, Palermo, Italy.

132. Beletsky, D. and D. Schwab. 2009. Modeling summer circulation in Lake Huron. IAGLR 2009. May 18-22, 2009, Toledo, OH.

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127. Beletsky, D., and D. Schwab. 2008. Modeling thermal structure in Lake Erie. ECOFORE/CHRP All-PI Workshop. December 11-12, 2008, Ann Arbor, MI.

126. Beletsky D. 2008. Modeling physical processes in lakes. GLERL-CILER Annual Review, December 9-10, 2008, Ann Arbor, MI.

125. Beletsky, D. Hydrodynamic model of Lake Champlain. 2008. Lake Champlain Program Review. October 29-30, 2008. Burlington, VT.

124. Beletsky, D., D. Schwab, and M. McCormick. 2008. Near-shore circulation modeling in southern Lake Michigan. The 12<sup>th</sup> Workshop on Physical Processes in Natural Waters, September 2-5, 2008, Incline Village, NV.

\*123. Beletsky D. 2008. Modeling the transport, growth, and settlement of larval yellow perch in Lake Michigan. Lake Michigan Technical Committee Meeting, 23-24 August, 2008, Traverse City, MI.

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116. Schwab, D., D. Beletsky, and G.Lang. 2008. A real time system for prediction of coastal circulation at Great Lakes beaches. 2008 Ocean Sciences Meeting, 2-7 March 2008, Orlando, FL.
115. McCormick, M., T. O. Manley, D. Beletsky, A. J. Foley III, Gary L. Fahnenstiel, and N. Hawley. 2008. Tracking the surface flow in Lake Champlain. LAKE CHAMPLAIN: OUR LAKE, OUR FUTURE. A research conference about the Lake Champlain Basin, January 8-9, 2008, Burlington, VT.
114. Beletsky D. 2007. Modeling physical processes in lakes. GLERL-CILER Annual Review, December 10-11, Ann Arbor, MI.
113. Beletsky, D., and D. Schwab. 2007. Modeling 1972-2005 thermal structure in Lake Erie. ECOFORE 2nd All-PI Workshop. November 19-20, 2007, Ann Arbor, MI.
112. Schwab, D., D. Beletsky, M. McCormick, A. Winkelman, A. J. Foley ,W. Frick, Z. Ge. 2007. Evaluation of Near-shore Hydrodynamic Models for Beach Closure Forecasting in the Great Lakes. NOAA Oceans and Human Health Initiative All-PI Meeting, October 22-24, 2007, Muskegon, MI.
111. Beletsky, D., D. Mason, D.J. Schwab, E. Rutherford, J. Janssen, D. Clapp, and J. Dettmers. 2007. Biophysical model of larval yellow perch advection and settlement in Lake Michigan. The 30<sup>th</sup> Congress of the International Association of Theoretical and Applied Limnology. August 12-18, Montreal, Canada.
110. STROUD, J.R., LESHT, B.M., SCHWAB, D.J., BELETSKY, D. and STEIN, M.L. 2007. Space-Time Forecasting of Lake Michigan Sediment Levels Using Satellite Observations and a Numerical Model. IAGLR 2007, May 28-June 1, University Park, Pennsylvania.
109. ZHANG, Z., BELETSKY, D., SCHWAB, D. and STEIN, M.L. 2007. Assimilation of Current Measurements into a Circulation Model of Lake Michigan. IAGLR 2007, May 28-June 1, University Park, Pennsylvania.
108. BELETSKY, D., SCHWAB, D. and MCCORMICK, M. 2007. Modeling the 1998-2003 Summer Circulation and Thermal Structure in Lake Michigan. IAGLR 2007, May 28-June 1, University Park, Pennsylvania.
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- \*106. Beletsky D. 2007. Physical processes in the Great Lakes and the Baltic Sea, a comparison of two systems. University of Michigan sponsored workshop "The North American Great Lakes: Comparisons with the Baltic Sea", February 20, 2007, Ann Arbor, MI.
105. Beletsky D. 2006. Modeling physical processes in lakes. GLERL Annual Review, December 4-5, Ann Arbor, MI.
104. Beletsky D. 2006. Physical processes and physical/biological coupling in the Great Lakes. Lecture to a limnology class of the Bowling Green State University and Eastern Michigan University, November 30, Ann Arbor, MI.

- \*103. Beletsky, D. 2006. Modeling thermal structure, circulation and larval transport in Lake Michigan. Seminar Series, Michigan State University, November 7, 2006, East Lansing, MI.
102. W.M. Schertzer, R.A. Assel, D. Beletsky, T.E. Croley II, B. Lofgren, J.H. Saylor, and D.J. Schwab Overview of Lake Huron System Climatology, Inter-lake Exchange And Mean Circulation. State of Lake Huron Symposium, Oct. 11-13, 2006, Delawana, ON, Canada.
101. Beletsky, D., D.J. Schwab, N. Hawley, R. Yerubandi. Hydrodynamic modeling of circulation and thermal structure in Lake Erie. IAGLR-2006. May 22-26 , Windsor, ON.
100. Schwab, D.J., D. Beletsky, W. Frick, Z. Ge, M. McCormick, A. Winkleman, A. Foley. 2006. Development of Near-shore Hydrodynamic Models for Beach Closure Forecasting in the Great Lakes. IAGLR-2006. May22-26 , Windsor, ON.
- \*99. Beletsky D., D.J. Schwab, J. DePinto, and D. Dolan. 2006 Hydrodynamic and phosphorus transport modeling in Lake Erie. Lake Erie Millenium Network Conference, February 28- March2, Windsor, ON.
98. Brandt, S., D.J. Schwab, T. Croley, D. Beletsky, and R. Whitman. Ecosystem Forecasting: Integrating Science to Reduce the Risks to Human Health. Ocean Sciences 2006, February 20-24, Honolulu, HI.
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95. Schwab, D.J., D. Beletsky, M.J. McCormick, W. Frick, Z. Ge. 2006. Nearshore hydrodynamic modeling for beach closure forecasting. NOAA Oceans and Human Health Initiative PI Meeting, January 18-20, Charlston. S.C.
94. Beletsky D. 2005. Modeling hydrodynamics of Lake Michigan and Lake Erie. GLERL Annual Review, December 6, Ann Arbor, MI.
93. Beletsky D. 2005. Modeling the transport, growth, and settlement of larval yellow perch in Lake Michigan. Lecture to a limnology class of the Bowling Green State University, November 22, Ann Arbor, MI.
92. Schwab, D.J., D. Beletsky, J. DePinto, and D. Dolan. 2005 Simulating phosphorus distribution in Lake Erie. Estuarine and Coastal Modeling, the 9th International Conference, November 3-5, Charlston, SC.
91. Beletsky, D., 2005. Climate and large lakes dynamics (Overview of CILER Task II). CILER Formal Review, June 1-2, Ann Arbor, MI.
90. SCHWAB, D.J., DEPINTO, J.V., DOLAN, D.M., and BELETSKY, D. \_High Resolution Model Study of Phosphorus Loading and Transport in Lake Erie.\_ IAGLR-2005, 23-27 May, Ann Arbor, MI.
89. Beletsky D., D. Schwab , D. Mason, E. Rutherford , M. McCormick, and J. Janssen. 2005. Modeling the transport, growth, and settlement of larval yellow perch in Lake Michigan. IAGLR-2005, 23-27 May, Ann Arbor, MI.
88. Höök, T.O., BELETSKY, D., RUTHERFORD, E.S., and MASON, D.M. A Linked Hydrodynamic and Individual-based Model of Early-life Alewife Dynamics in Lake Michigan. IAGLR-2005, 23-27 May, Ann Arbor, MI.
87. Beletsky, D. 2005. Modeling larval transport and growth in Lake Michigan. GLERL Seminar Series, April

21, Ann Arbor, MI.

86. Schwab, D.J. and D. Beletsky. 2005. Progress on CEGLHH hydrodynamics project and plans for 2005. All-PI meeting (2) for the Center of Excellence for Great Lakes and Human Health. April 19-20. East Lansing, MI.

85. Beletsky, D. 2005. Modeling thermal structure, circulation and larval transport in Lake Michigan. SNRE Seminar Series, University of Michigan, March 11, Ann Arbor, MI.

84. Beletsky, D. 2004. Hydrodynamic modeling for environmental prediction in Lake Michigan. Lecture to a limnology class of the Bowling Green State University, December 2, Ann Arbor, MI.

83. Beletsky, D. 2004. Modeling thermal structure, circulation, and contaminant transport in the Great Lakes. EPA Workshop on Beach Closure Forecasting. November 29, Cincinnati, OH.

82. Schwab, D.J., D. Beletsky, and J. DePinto. 2004. Phosphorus loading and transport in Lake Erie. The 7-th International Marine Environmental Modeling Seminar, October 19-21, Washington, D.C.

81. Frick, W., D. Francy, D. Rockwell, D. Schwab, D. Beletsky, and R. Lunetta., 2004. A vision for a beach forecasting tool. IEMES 2004 – 1<sup>st</sup> International Exhibition on Materials, Equipment and Services for Coastal WWTP Outfalls and Sealines. September 27-October 2, 2004, Catania, Italy.

\*80. Beletsky D. and D. Schwab. 2004. Modeling circulation, thermal structure and waves in Lake Michigan. Lake Michigan Mass Balance Project PCB modeling peer review. July 27-28, 2004, Romulus, MI.

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75. Ancel, S.F.M, Meadows, G.A., Meadows, L.A., Schwab, D.J., and D. Beletsky. 2003. Monitoring Lake Saint Clair: assessing and forecasting the state of the lake and fate of contaminated waters. The 46-th Conf. of IAGLR, 22-26 June, Chicago, IL.

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70. Beletsky D. Retrospective (1953-2002) hydrodynamic modeling of Lake Erie. NOAA COP Great lakes Issues Workshop. January 20-21, Ann Arbor, MI.
69. Beletsky, D. 2002. Sediment resuspension events in Lake Michigan. Lecture to a limnology class of the Bowling Green State University, December 18, Ann Arbor, MI.
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67. Beletsky, D., D.J. Schwab, P.J. Roebber, M.J. McCormick, G. S. Miller, and J.H. Saylor. Modeling wind-driven circulation in Lake Michigan. 4th International Lake Ladoga Symposium. September 2-6, 2002. Velikiy Novgorod, Russia.
- \*66. Eadie, B.J., D. Beletsky, J.A. Robbins, D. Schwab, and T. Johengen. Advances in our understanding of sediment-water exchange and sediment transport from the Lake Michigan mass Balance and Episodic Events Programs. Plenary presentation at: 4th International Lake Ladoga Symposium. September 2-6, 2002. Velikiy Novgorod, Russia.
65. Stein, M.L., D. Beletsky, B. Lesht, D.J. Schwab, and J. Stroud, Combining Statistical and Physical Models for Environmental Processes. 24th European Meeting of Statisticians, 14th Prague Conference on Information Theory, Statistical Decision Functions and Random Processes, Prague, August 19-23, 2002
64. Meadows, L.A., J.F. Vesecky, C.C. Teague, D.J. Schwab, D. Beletsky, P.E. Hansen, and J. Drake. 2002. High frequency radar measurements of currents in Lake Michigan as part of the Episodic Events Great Lakes Experiment. The 2002 Ocean Sciences meeting, February 11-15, Honolulu, HI.
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61. Eadie B.J, D.J. Schwab, P.J. Roebber, and D. Beletsky. 2001. Climatology of resuspension events in Lake Michigan. The 2001 EEGLE-KITES workshop, September 20-23, Houghton, MI.
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58. Meadows, G. A., Schwab, D.J., Beletsky, D., Caufield, B. A. and S. Ancel. 2001. An Environmental Monitoring Network for Lake St. Clair. The 44-th Conf. of IAGLR, June 10-14, Green Bay, WI.
57. Schwab, D.J and, D. Beletsky. 2001. Sediment transport modeling in Lake Michigan. LMMBS sediment modeling workshop. January 24-25, Ann Arbor, MI.
56. Beletsky, D. 2000. Sediment resuspension events in Lake Michigan. Lecture to a limnology class of the Bowling Green State University, December 14, Ann Arbor, MI.

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