

**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:**

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

- IWMO 2022, Ann Arbor, MI, 2022

**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**

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. ( <b>PI</b> ). Lake Champlain Hydrodynamic Flood Forecasting System. (International Joint Commission via NOAA GLERL), 2017-2022	\$738,898
Fujisake Manome, A., Beletsky, D. ( <b>co-PI</b> ). Developing Great Lakes Earth System Model (GLESM). (NOAA GLERL), 2021	\$153,000
Beletsky, D. ( <b>PI</b> ). National Water Model for Great Lakes (NOAA GLERL), 2021	\$23,930
Beletsky, D. ( <b>PI</b> ). IWMO 2022. (NOAA GLERL), 2021-2022	\$29,999
Beletsky, D. ( <b>PI</b> ). 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. ( <b>PI</b> ). Ice-wave-current interactions in Lake Erie. (NOAA GLERL),2020-2022	\$22,450
Beletsky, D. ( <b>PI</b> ). 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. ( <b>PI</b> ) 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. Interannual and decadal variability of summer Arctic sea-ice associated with atmospheric teleconnection patterns during 1850-2017. *J. Climate (in re-revision)*

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. 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. Ludsin, 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.
32. Zhang Z., D. Beletsky, D.J. Schwab, and M. Stein. 2007. Assimilation of current measurements into a circulation model of Lake Michigan. *Wat. Resour. Res.*, 43, W11407, doi:10.1029/2006WR005818.
31. 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. *J. Great Lakes Res.* 33, 842-866.
30. Lee, C., Schwab, D.J., D. Beletsky, J. Stroud, and B. Lesht. 2007. Numerical modeling of mixed sediment resuspension, transport, and deposition during the March 1998 episodic resuspension events in southern Lake

Michigan. *J.Geophys. Res.*, 112, C02018, doi: 10.1029/2005JC003419.

29. Beletsky,D., D.J. Schwab, and M.J. McCormick. 2006. Modeling 1998-2003 summer circulation and thermal structure in Lake Michigan. *J.Geophys. Res.*, 111, C10010, doi:10.1029/2005JC00322.

28. Hawley, N., T. Johengen, R. Yerubandi, S. Ruberg, D. Beletsky, S. Ludsin, B. J. Eadie, D.J. Schwab, T. Croley, and S. Brandt. 2006. Lake Erie hypoxia prompts Canada-US study. *EOS*, 87, 32: 313, 319.

27. Beletsky, D., D.J.Schwab, D.M. Mason, E. Rutherford, M.J.McCormick, H.A.Vanderploeg, and J.Janssen. 2004. Modeling the transport of larval yellow perch in Lake Michigan. Estuarine and Coastal Modeling, the 8th International Conference, ASCE, November 3-5, 2003, Monterey, CA, p.439-454.

26. Chen, C., L. Wang, J.Qi, H. Liu, J.W. Budd, D.J. Schwab, D. Beletsky, H.A. Vanderploeg, B.J. Eadie, T.H. Johengen, J. Cotner and P.J. Lavrentyev. 2004. A modeling study of benthic detritus flux's impacts on heterotrophic processes in Lake Michigan *J.Geophys. Res.* 109: C10S11, doi:10.1029/2002JC001689

25. Chen, C., L. Wang, R. Ji, J.W. Budd, D.J. Schwab, D. Beletsky, G.L. Fahnenstiel, H.A. Vanderploeg, B.J. Eadie, and J. Cotner. 2004. Impacts of suspended sediment on the ecosystem in Lake Michigan: A comparison between the 1998 and 1999 plume events. *J.Geophys. Res.*,109: C10S05, doi:10.1029/2002JC001687

24. Raudsepp, U., D. Beletsky, and D.J. Schwab. 2003. Basin scale topographic waves in the Gulf of Riga. *J. Phys. Oceanogr*, 33, 1129-1140.

23. Beletsky,D., D.J. Schwab, P.J. Roebber, M.J. McCormick, G. S. Miller, and J.H. Saylor. 2003. Modeling wind-driven circulation during the March 1998 sediment resuspension event in Lake Michigan. *J.Geophys. Res.*, 108(C2), 3038, doi:10.1029/2001JC001159.

22. Schwab, D.J. and D. Beletsky, 2003. The relative effect of wind stress curl, topography, and stratification on large-scale circulation in Lake Michigan. *J.Geophys. Res.*,108(C2), 3044, doi:10.1029/2001JC001066.

21. Ji, R., C. Chen, D.J. Schwab, D. Beletsky, G.L. Fahnenstiel, T.H. Johengen, H.A. Vanderploeg, B.J. Eadie, M. Bundy, W. Gardner, and J. Cotner. 2002. influences of suspended sediments on the ecosystem in Lake Michigan: A 3D coupled biophysical modeling experiment: *Ecological Modeling*, 152, 169-190

20. Chen, C., R. Ji, D.J. Schwab, D. Beletsky, G.L. Fahnenstiel, T.H. Johengen, H.A. Vanderploeg, B.J. Eadie, M. Bundy, W. Gardner, and J. Cotner. 2002. A model study of the coupled biological and physical dynamics in Lake Michigan. *Ecological Modeling*, 152, 145-168

19. Schwab, D.J and, D. Beletsky. 2002. Hydrodynamic and sediment transport modeling of episodic resuspension events in Lake Michigan. Estuarine and Coastal Modeling, the 7th International Conference, ASCE, November 5-7, 2001, St. Pete Beach, FL., p.266-274

18. Beletsky, D. 2001. Modeling wind-driven circulation in Lake Ladoga. *Boreal Environment Research*, 6, 307-316.

17. Beletsky, D., and D.J. Schwab. 2001. Modeling circulation and thermal structure in Lake Michigan: Annual cycle and interannual variability. *J.Geophys. Res.*, 106, 19745-19771.

16. Lou J., D.J. Schwab, D. Beletsky, and N. Hawley, 2000. A model of sediment resuspension and transport dynamics in southern Lake Michigan. *J. Geophys Res.*, 105, 6591-6610.

15. Schwab,D.J., D. Beletsky, and J. Lou, 2000. The 1998 coastal turbidity plume in Lake Michigan. *Estuar., Coast. and Shelf Sci.*, 50, 49-58.

14. Beletsky,D., D.J. Schwab, M.J. McCormick, G. S. Miller, J.H. Saylor, and P.J. Roebber. 2000. Hydrodynamic modeling for the 1998 Lake Michigan coastal turbidity plume event Estuarine and Coastal

Modeling, Proceedings of the 6th International Conference, ASCE, November 3-5, 1999, New Orleans, LA, p.597-613.

13. Beletsky, D., J.H. Saylor, and D.J. Schwab. 1999. Mean circulation in the Great Lakes. *J. Great Lakes Res.*, 25, 78-93.

12. Beletsky, D., K.K. Lee and D.J. Schwab. 1999. Large-scale circulation. In: D. C.L. Lam and W.M Schertzer (Eds.) Potential Climatic Effects on Lake Hydrodynamics and Water Quality. ASCE, Reston, VA, 4.1-4.41.

11. Schwab, D.J. and D. Beletsky. 1998. Propagation of Kelvin waves along irregular coastlines in finite-difference models. *Advances in Water Resources*, 22, 239-245.

10. Beletsky, D., and D.J. Schwab. 1998. Modeling thermal structure and circulation in Lake Michigan. Estuarine and Coastal Modeling, Proceedings of the 5th International Conference, ASCE, October 22-24, 1997, Alexandria, VA, p. 511-522.

9. Beletsky, D., W.P. O'Connor, D.J. Schwab and D.E. Dietrich. 1997. Numerical simulation of internal Kelvin waves and coastal upwelling fronts. *J. Phys. Oceanogr.* 27, 1197-1215.

8. Beletsky, D. V. 1996. Numerical modeling of large scale circulation in Lakes Onega and Ladoga. *Hydrobiologia.* 322, 75-80.

7. Schwab, D.J., Beletsky, D., O'Connor, W.P., and Dietrich, D.E., 1996. Numerical simulation of internal Kelvin waves with z-level and sigma level models, in: M.L. Spaulding and R.T. Cheng (eds.), Estuarine and Coastal Modeling, Proceedings of the 4th International Conference, ASCE, Oct. 26-28, 1995, San Diego, CA, p. 298-312.

6. Kondratyev, K.Y., L.P. Bobylev, D.V. Pozdnyakov, V.V. Melentyev, M.A. Naumenko, K.A. Mokievsky, O.A. Korotkevich, L.V. Zaitsev, S.G. Karetnikov, D. V. Beletsky and A.V. Litvinenko. 1996. Combined application of remote sensing and in situ measurements in monitoring environmental processes. *Hydrobiologia.* 322, 227-232.

5. Beletsky, D.V., N.N. Filatov, and R.A. Ibraev. 1994. Hydrodynamics of Lakes Ladoga and Onega. *Water. Poll. Res. J. Canada* 29, 365-384.

4. Naumenko, M.A., D. V. Beletsky, V.B. Romyantsev, V.S. Etkin, K.Ts. Litovchenko, and A.V. Smirnov. 1994. Investigation of hydrobiological situation in Lake Onega using joint spaceborne radar, airborne and in situ measurements. *Int. J. Rem. Sens.* 15, 2039-2049.

3. Beletskii, D.V, Y.L. Demin, and N.N. Filatov. 1991. Complex investigation of hydrophysical fields of the Onega Lake as an imitating ocean model. *Izvestiya Akademii Nauk SSSR Fizika Atmosfery i Okeana* 27 (10): 1172-1183

2. Filatov, N.N., D. V. Beletsky and L.V. Zaitsev. 1990. Variability of currents in Lake Onega during the period of full stratification derived from in situ measurements and numerical modeling. In: Z. Kaufman (Ed.) Ecological system of Lake Onega and the tendencies of its changing. Nauka Publ., Leningrad. p. 85-94. (In Russian)

1. Demin, Y.L., D. V. Beletsky, and N.N. Filatov. 1989. Diagnostic calculation of the summer water circulation in Lake Onega. *Izvestiya Akademii Nauk SSSR Fizika Atmosfery i Okeana* 25 (5): 553-554

#### **OTHER PUBLICATIONS (17 total)**

N. Hawley, D. Beletsky and J. Wang. 2016. Time series measurements of ice thickness in Lake Erie. The

23rd IAHR International Symposium on Ice, May 31 – June 3, 2016, Ann Arbor, MI.

Beletsky, D., H.Hu, J. Wang and N. Hawley. 2014. Modeling thermal structure, circulation and ice in Lake Erie. The 22nd IAHR International Symposium on ICE, August 11-15, 2014, Singapore, p. 449-451.

Beletsky, R., D. Beletsky, N. Hawley and J. Wang. 2014. Interannual variability of winter circulation and ice in Lake Erie. The 22nd IAHR International Symposium on ICE, August 11-15, 2014, Singapore, p.905-907.

Wang, J., X. Bai, A. Fujisaki-Manome, H. Hu, and D. Beletsky 2014. Great Lakes Ice and Climate Research and Forecast. The 22nd IAHR International Symposium on ICE, August 11-15, 2014, Singapore, p.48-55.

Stroud J., B. Lesht, D.J. Schwab, D. Beletsky, and M. Stein. 2006. Tracking suspended sediment motion in Lake Michigan by combining satellite images with a numerical model. Technical Report 38, Center for Integrating Statistical and Environmental Science, University of Chicago.

Lou J., D.J. Schwab and D. Beletsky. 1999. Suspended sediment transport modeling in Lake Michigan. The 1999 Canadian Coastal Conference, May 19-22, 1999, Victoria, B.C., p. 391-405.

Schwab, D.J. and D. Beletsky, 1998. Lake Michigan Mass Balance Study - Hydrodynamic Modeling Project. NOAA Tech. Memo. ERL GLERL -108, 53 p

Beletsky, D., K.K. Lee and D.J. Schwab. 1997. Recent advances in hydrodynamic modeling of the Great Lakes. Proceedings of the XXVII IAHR Congress, Aug.15-18, San Francisco, CA, p.925-930.

Beletsky, D., W.P. O'Connor, and D.J. Schwab. 1997. Hydrodynamic modeling for the Lake Michigan Mass Balance Project, in G.Delic and M.F. Wheeler (eds), Next Generation Environmental Models Computational Methods, Proceedings of a U.S.EPA sponsored workshop at the National Environmental Supercomputing Center, August 7-9, 1995, Bay City, MI, SIAM, Philadelphia, PA, p.125-128.

Schwab, D.J. and D. Beletsky, 1997. Hydrodynamic modeling program in the Lake Michigan Mass Balance Project. Workshop on research needs for coastal pollution in urban areas, Oct. 16-17, Milwaukee, WI, p. 14-22.

Beletsky, D., N.N. Filatov and R.A. Ibraev. 1993. Dynamics of Lakes Ladoga and Onega. In: N.N. Filatov (Ed.) Problems of physical limnology. Northern Water Problems Institute, Karelian Scientific Centre of RAS. Petrozavodsk. p.7-29. (In Russian)

Naumenko, M.A., V.S. Etkin, K.Ts. Litovchenko, A.V. Smirnov, D. Beletsky, and V.B. Romyantsev. 1993. Analysis of hydrological and biological conditions in Lake Onega using joint spaceborne radar, airborne and in situ measurements. Earth Res. Space 3, 91-101. (In Russian)

Beletsky D. 1992. Numerical Modeling of Circulation in Lake Onega. Institute for Lake Research, Russian Academy of Science, St.Petersburg. 15 p. (In Russian)

Beletsky, D., V.S. Etkin, K.Ts. Litovchenko, M.A. Naumenko, V.B. Romyantsev, and A.V. Smirnov. 1992. Investigation of hydrobiological situation in Lake Onega using joint spaceborne radar, airborne and in situ measurements. Space Res. Inst. AS USSR, Preprint 1810, Moscow, 21 p.

Filatov, N.N., D. Beletsky and L.V. Zaitsev. 1991. Synthesis of measurements and numerical modeling in lakes hydrodynamics. Proc. Conf. Investigations of Stochastic Processes: Planning and Data Analysis“ Petrozavodsk. p.114-115. (In Russian)

Filatov, N.N., D. Beletsky, and L.V. Zaitsev. 1990. Variability of hydrophysical fields in Lake Onega. “Onego” experiment. Water Problems Department. Karelian Scientific Center AS USSR. Petrozavodsk. 114 p. (In Russian)

Demin, Yu.L., I.O. Akhverdiev, D. Beletsky, and N.N. Filatov. 1990. Hydrodynamic diagnosis of currents in large lakes and reservoirs. Department of Computational Mathematics AS USSR, Preprint 267, Moscow, 38 p. (In Russian)

## PRESENTATIONS (\* - invited)

214. Beletsky, D, D. Titze, J. Kessler, L. A. Mason, E. J. Anderson, L. Fry, L. Read, W. Saunders. P.Chu, J. Feyen, D. Lee. Development of coupled Hydrologic-Hydrodynamic-Wave Flood Forecasting System for Lake Champlain. NOAA General Modeling Meeting and Fair (virtual), April 13-16, 2021

213. Beletsky, D. Hydrologic/Hydrodynamic Modeling and Coastal Coupling. CIGLR 5<sup>th</sup> year review (virtual), April 12-13, 2021

212. Beletsky, D, D. Titze, J. Kessler, L. A. Mason, E. J. Anderson, L. Fry, L. Read, W. Saunders. P.Chu, J. Feyen, D. Lee. Development of coupled Hydrologic-Hydrodynamic-Wave Flood Forecasting System for Lake Champlain, AGU Fall Meeting (virtual), December 9-13, 2020

211. J. Feyen, D. Beletsky, D. Titze L. A. Mason, E. J. Anderson, L. Read, W. Saunders, P.Chu, D. Lee. Development of a Coupled Hydrologic-Hydrodynamic-Wave Flood Forecasting System for Lake Champlain. AMS Annual Meeting, January 12-16, 2020, Boston, MA.

210. Beletsky, D., J. Feyen, L. A. Mason, C. Xiao, A. Gronewold, D. Titze, H. Hu, E. J. Anderson, P.Chu, L. Read, W. Saunders. Developing a Hydrologic-Hydrodynamic Flood Forecasting System for Lake Champlain, AGU Fall Meeting, December 9-13, 2019, San Francisco, CA.

209. M. D. Rowe, E. J. Anderson, D. Beletsky, C. A. Stow. Performance of a Lake Erie hypoxia forecast model in 2018. IAGLR, June 10-14, 2019, Brockport, NY.

208. Constant, S., N. Hawley, J. Wang, D. Beletsky. Ice thickness variations over short distances in Lake Erie. IAGLR, June 10-14, 2019, Brockport, NY.

207. Beletsky, D., R. Beletsky, E. J. Anderson, M. D. Rowe, S. A. Ruberg, T. H. Johengen, C. A. Stow. Summer hydrodynamics of Lake Erie: observations and modeling during upwelling events. IAGLR, June 10-14, 2019, Brockport, NY.

206. Hu, H., D. Beletsky, E. Anderson, J. Feyen, P. Chu. A 3D unstructured grid Lake Champlain model for flood and hydrodynamics forecasting. IAGLR, June 10-14, 2019, Brockport, NY.

205. Mason, L.A., C. Xiao, A. Gronewold, L. Read, K. Sampson, D. Beletsky, J. Feyen, P. Chu, D. Gochis, W. Saunders. Modeling hydrology to support flood forecasting for the Lake Champlain basin using WRF-Hydro. IAGLR, June 10-14, 2019, Brockport, NY.

204. Beletsky, D., R. Beletsky, E. J. Anderson, M. D. Rowe, S. A. Ruberg, T. H. Johengen, C. A. Stow. Observations and modeling of summer hydrodynamics of Lake Erie in support of coastal hypoxia forecasting. ELLS-IAGLR, September 23-28, 2018, Evian, France.

203. R. Beletsky, D. Beletsky, E. S. Rutherford, J. Sieracki, J. Bossenbroek, W. L. Chadderton, M. E. Wittmann and D. M. Lodge. Spread of aquatic invasive species by currents in the Great Lakes. ELLS-IAGLR, September 23-28, 2018, Evian, France.

202. Zhou, H., D. Beletsky, E. Anderson, R. Beletsky. Hydrodynamic Modeling of HABs in Western Basin of Lake Erie. IAGLR, June 17-22, 2018, Toronto, ON.

201. Rowe, M D., E. J. Anderson, S. A. Ruberg, D. Beletsky, H. Zhang, T. H. Johengen, S. Moegling, E. M. Verhamme, C. A. Stow. Coastal upwelling dynamics influence spatial patterns of hypoxia and nearshore hypoxia events in the central basin of Lake Erie. IAGLR, June 17-22, 2018, Toronto, ON.
200. Feyen, J, D. Beletsky, H. Hu, C. Xiao, L. Mason, C. Riseng, E. Anderson, P. Chu, D. Gronewold. Lake Champlain-Richelieu River Basin Modeling System: coupling watershed and lake processes. Lake Champlain – Richelieu River Study Meeting, April 4-6, 2018, Venise-en-Quebec, Canada
199. Rowe, M D., E. J. Anderson, S. A. Ruberg, D. Beletsky, H. Zhang, T. H. Johengen, S. Moegling, E. M. Verhamme, C. A. Stow. Coastal upwelling dynamics influence spatial patterns of hypoxia and nearshore hypoxia events in the central basin of Lake Erie. Ocean Sciences Meeting, Portland, OR, Feb, 2018
198. STOW, C.A., ROWE, M.D., RUBERG, S.A., JOHENGENT, T.H., ZHANG, H., BELETSKY, D., JOSHI, S.J., COLLINGSWORTH, P., MASON, D.M., KRAUS, R.T., and ANDERSON, E.J. Lake Erie Hypoxia Forecasting for Public Water Systems Decision Support. IAGLR, May 15-19, 2017, Detroit, MI.
197. ZHOU, H., WU, S., KONG, D., FAN, Y., LI, X., and BELETSKY, D. A Discussion of Arsenic Pollution Control with Ferric Chloride in Yangzong Lake of Southwest China. IAGLR, May 15-19, 2017, Detroit, MI.
196. Hawley, N., D. Beletsky, J. Wang, and P. Chu. 2017. Ice thickness measurements in Lake Erie during the winter of 2010-2011. IAGLR, May 15-19, 2017, Detroit, MI.
195. Beletsky, D., E. Anderson, R. Beletsky. Hydrodynamics of western Lake Erie. IAGLR, May 15-19, 2017, Detroit, MI.
194. M. D. Rowe, E. J. Anderson, S. A. Ruberg, S. Moegling, E. M. Verhamme, D. Beletsky, H. Zhang, T. H. Johengen, C. A. Stow. Modeling dissolved oxygen dynamics near drinking water intakes in the central basin of Lake Erie. IAGLR, May 15-19, 2017, Detroit, MI.
193. Dmitry Beletsky, Raisa Beletsky, Jia Wang, Nathan Hawley. Observations and Modeling of Physical Processes in Lake Erie in Winter. ASLO Aquatic Sciences meeting. Feb 26-Mar 3, 2017, Honolulu, Hawaii.
192. R. Beletsky, D. Beletsky, E. S. Rutherford, J. Sieracki, J. Bossenbroek, W. L. Chadderton, M. E. Wittmann and D. M. Lodge. Spread of aquatic invasive species by currents in the Great Lakes. ASLO Aquatic Sciences meeting. Feb 26-Mar 3, 2017, Honolulu, Hawaii.
191. M. D. Rowe, E. J. Anderson, S. A. Ruberg, D. Beletsky, H. Zhang, C. A. Stow. INVESTIGATION OF A HYDRODYNAMIC FORECAST MODEL AS A PREDICTOR OF DISSOLVED OXYGEN DYNAMICS NEAR PUBLIC WATER SYSTEM INTAKES IN THE CENTRAL BASIN OF LAKE ERIE. ASLO Aquatic Sciences meeting. Feb 26-Mar 3, 2017, Honolulu, Hawaii.
190. M. D. Rowe, C. A. Stow, E. J. Anderson, S. A. Ruberg, D. Mason, D. Beletsky, H. Zhang, T. H. Johengen, S. Moegling, P. Collingsworth, R. Kraus. Operational Lake Erie Hypoxia Forecasting for Public Water Systems Decision Support Lake Erie Millennium Network meeting, February 21-23, 2017, Windsor, Ontario, Canada.
189. D. Beletsky, R. Beletsky, E. S. Rutherford, J.L. Sieracki, J. M. Bossenbroek, W. L. Chadderton, M. E. Wittmann, G. M. Annis and D. M. Lodge. Predicting spread of aquatic invasive species by lake currents.. Water@Michigan forum, January 31, 2017, Ann Arbor, MI
188. R. Beletsky, D. Beletsky, E. S. Rutherford, J. Sieracki, J. Bossenbroek, W. L. Chadderton, M. E. Wittmann and D. M. Lodge. Spread of aquatic invasive species by currents in the Great Lakes. 2016. The 33<sup>rd</sup> SIL Congress, July 31- August 5, Turin, Italy.
187. D. Beletsky, R. Beletsky, J. Wang and N. Hawley. 2016. Hydrodynamics of Lake Erie in winter. The 33<sup>rd</sup> SIL Congress, July 31- August 5, Turin, Italy.

186. D. Beletsky, R. Beletsky, E. S. Rutherford, J. Sieracki, J. Bossenbroek, W. L. Chadderton, M. E. Wittmann and D. M. Lodge. Spread of aquatic invasive species by currents in the Great Lakes. 2016. 40th Annual Larval Fish conference, Solomons, MD, June 19-23.
185. R. Beletsky, D. Beletsky, J. Wang and N. Hawley. 2016. Winter Circulation in the Presence of Ice in Lake Erie. The 23rd IAHR International Symposium on Ice, May 31 – June 3, 2016, Ann Arbor, MI.
184. Beletsky, D., R. Beletsky, N. Hawley and J. Wang. Seasonal Circulation and Thermal Structure of Lake Erie. 18th Workshop on Physical Processes in Natural Waters, Landau, Germany, August 25-28, 2015.
183. Beletsky, D., R. Beletsky, N. Hawley and J. Wang. Interannual variability of winter circulation and ice in Lake Erie. IAGLR, May 25-29, 2015, Burlington, VT.
182. Gronewold, A.D, E. J. Anderson, B. Lofgren, P. D. Blanken, J. Wang, J. Smith, T. Hunter, D. Beletsky, G. Lang and C. A. Stow. Impacts of regional climate perturbations on Lake Michigan's heat content. IAGLR, May 25-29, 2015, Burlington, VT.
181. Rucinski, D.K., J. V. DePinto, D. Beletsky and D. Scavia. Lake Erie central basin hypoxia – modeling response to phosphorus loads reduction scenarios. IAGLR, May 25-29, 2015, Burlington, VT.
180. DUHAIME, M., WIGGINTON, K., BELETSKY, D., BELETSKY, R., RIOS-MENDOZA, L., CHEN, Z., DALEY, J., SANO, L., and BURTON, A. Multidisciplinary approach to assessing the impact of microplastics on Great Lakes ecosystem health. IAGLR, May 25-29, 2015, Burlington, VT.
179. Beletsky, R., D. Beletsky, N. Hawley and J. Wang. Interannual Variability of Winter Circulation and Ice in Lake Erie. 22nd IAHR International Symposium on ICE, August 11-15, 2014, Singapore.
178. Beletsky, D., H. Hu, J. Wang and N. Hawley. Modeling Thermal Structure, Circulation and Ice In Lake Erie. 22nd IAHR International Symposium on ICE, August 11-15, 2014, Singapore.
177. Wang, J., X. Bai, A. Fujisaki-Manome, H. Hu, and D. Beletsky 2014. Great Lakes Ice and Climate Research and Forecast. The 22nd IAHR International Symposium on ICE, August 11-15, 2014, Singapore.
176. Beletsky, D., R. Beletsky, J. L. Sieracki, J.M., Bossenbroek, W.L. Chadderton, and E., Rutherford. Modeling Larval Dispersal of Invasive Species in Lake Michigan. 38th Annual Larval Fish Conference. August 17-21, 2014, Quebec City, Canada
175. Beletsky, D., R. Beletsky, J. L. Sieracki, J.M., Bossenbroek, W.L. Chadderton, and E., Rutherford. Modeling spread of invasive species in Lake Michigan. IAGLR, May 26-30, 2014, Hamilton, ON.
174. DUHAIME, M., WIGGINTON, K., BELETSKY, D., RIOS-MENDOZA, L., CHEN, Z., BELETSKY, R., DALEY, J., SANO, L., and BURTON, A. A Multidisciplinary Approach to Assess the Impact of Microplastics on Laurentian Great Lakes Ecosystem Health. IAGLR, May 26-30, 2014, Hamilton, ON.
173. HU, H., WANG, J., SCHWAB, D.J., BELETSKY, D., LESHKEVICH, G., HAWLEY, N., and CLITES, A.. Simulation of ice and circulation in Lake Erie. IAGLR, May 26-30, 2014, Hamilton, ON.
172. WANG, J., BAI, X., HU, H., FUJISAKI, A., and BELETSKY, D. Great Lakes Ice and Climate: From Research to Forecast. IAGLR, May 26-30, 2014, Hamilton, ON.
171. ZHOU, Y., BELETSKY, D., RICHARDS, R.P., RAO, Y.R., HO, J.C., and MICHALAK, A.M.. A statistical model of the interannual variability of hypoxia in Lake Erie. IAGLR, May 26-30, 2014, Hamilton, ON.
170. Beletsky, D., N. Hawley, J. Wang, R. Beletsky and H. Hu. Modeling winter circulation and ice in Lake Erie. 2014 Ocean Sciences Meeting, February 23-28, Honolulu, HI.

169. Hawley, N., T. Redder, R. Beletsky, E. Verhamme, D. Beletsky. Waves, ice and sediment transport in Saginaw Bay. 2014 Ocean Sciences Meeting, February 23-28, Honolulu, HI.
168. Beletsky, D. and E.J. Anderson. Modeling circulation and residence time in western Lake Erie. 16th Workshop on Physical Processes in Natural Waters, Queensland, Australia, 8-11 July 2013.
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.
166. Beletsky, R., D. Beletsky and N. Hawley. Modeling circulation and residence time of Saginaw Bay. IAGLR, June 2-6, 2013, West Lafayette, IN.
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.
163. MASON, D.M., ZHANG, H., RUTHERFORD, E.S., IVAN, L.N., BELETSKY, D., ADAMACK, A.T., HOFF, M., FULTON, E.A., BARBIERO, R.P., and GORTON, R.J., Forecasting Asian Carp Impacts On Lake Michigan's Food Web And Fisheries Using The Atlantis Ecosystem Model. IAGLR, June 2-6, 2013, West Lafayette, IN.
162. PANGLE, K.L., HURTADO, P.J., LOU, Y., MARSCHALL, E.A., RUCINSKI, D.K., BELETSKY, D., and LUDSIN, S.A. Do Hypoxia- and Temperature-Induced Changes in Habitat Use Affect Fish Abundance and Quality? IAGLR, June 2-6, 2013, West Lafayette, IN.
161. RUCINSKI, D.K.1, SCAVIA, D.2, DEPINTO, J.V.3, BELETSKY, D.4, and SCHWAB, D.J. Modeling Hypoxia in Lake Erie: Response to Nutrient Load Reduction. IAGLR, June 2-6, 2013, West Lafayette, IN.
160. Tucker, A.J., Chadderton, W.L., Jerde, C.J., Mahon A.M., Wittmann, M.E., Sieracki, J., Bossenbroek J., Beletsky, D. and D.L. Lodge. eDNA surveillance for Eurasian Ruffe in the Laurentian Great Lakes. IAGLR, June 2-6, 2013, West Lafayette, IN.
159. X. Yin, N. Hawley, D. Beletsky Measurements of the Ice Thickness in Lake Erie 2010-2011. IAGLR, June 2-6, 2013, West Lafayette, IN.
158. Chadderton, W.L., Jerde, C.J., Mahon A.M., Wittmann, M.E., Tucker, A.J. , D.L. Lodge., J. Bossenbroeck, J. Seracki, and D. Beletsky. Eurasian ruffe –implications of recent eDNA surveillance efforts in the Laurentian Great Lakes. 18<sup>th</sup> International Conference on Aquatic Invasive Species , April 21-25, 2013, Niagara Falls, Ontario, Canada
- 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
155. ZHANG, H. RUTHERFORD, E.S., MASON, D.M., BELETSKY, D., ADAMACK, A.T., HOFF, M., FULTON, E.A. and BARBIERO, R.P. Forecasting Asian carp impacts on Lake Michigan's food web and fisheries - using the Atlantis ecosystem model. AFS 2012, Aug. 19-23, St. Paul, MN



154. RUCINSKI, D.K., DEPINTO, J.V., SCAVIA, D., BELETSKY, D. and SCHWAB, D.J., A Modeling Analysis of Loading Scenarios and Hypoxia in Lake Erie. IAGLR 2012. May , 2012, Cornwall ON.
153. ZHANG, H. RUTHERFORD, E.S., MASON, D.M., BELETSKY, D., ADAMACK, A.T., HOFF, M., FULTON, E.A. and BARBIERO, R.P. Forecasting Asian carp impacts on Lake Michigan's food web and fisheries - using the Atlantis ecosystem model. IAGLR 2012. May , 2012, Cornwall ON.
152. Schwab, D.J., D. Beletsky, G. Leshkevich, M. McCormick. The Role of Lake Circulation in the Development of the 2011 Algal Bloom in Western Lake Erie. IAGLR 2012. May , 2012, Cornwall ON.
151. Hamidi, S. A.; Bravo, H. R.; Klump, J. V.; Waples, J. W.; Schwab, D. J.; Beletsky, D.; Anderson, E.; Kennedy, J.; Valenta, T.; CIRCULATION AND THERMAL REGIME IN GREEN BAY, LAKE MICHIGAN. 2012 Ocean Sciences Meeting, February 20-24, 2012, Salt Lake City, Utah.
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.
149. Beletsky, D., H.Hu, and J. Wang. Modeling 1979-1980 winter circulation and thermal structure in Lake Erie. 2012 Ocean Sciences Meeting, February 20-24, 2012, Salt Lake City, Utah.
- 148\* Beletsky, D. Modeling thermal structure and circulation in the Great Lakes. GIS Day 2011 Modeling Symposium, University of Notre Dame, December 2, 2011, South Bend, IN.
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.
145. Beletsky, D., R. Beletsky, D. Schwab, E. Anderson, and G. Lang. 2011. Interannual variability of circulation in Saginaw Bay. IAGLR 2011. May 31-June 3, 2011, Duluth, MN.
- 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.
140. Beletsky, D., D. Schwab, R. Rao, N. Hawley, H. Vanderploeg, and R. Beletsky. 2010. Summer thermocline of Lake Erie. SIL 2010. August 15-20, 2010, Cape Town, South Africa.
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.
137. 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): model-data fusion and sensitivity studies. IAGLR 2010. May 17-21, 2010, Toronto, ON.
136. Beletsky, D., D. Schwab, R. Rao, N. Hawley, H. Vanderploeg, and R. Beletsky. Thermocline of Lake Erie. IAGLR 2010. May 17-21, 2010, Toronto, ON.
135. Rucinski, D.K., D. Beletsky, J.V. DePinto, D. Scavia, and D.J. Schwab. 2010. 3-Dimensional Water Quality Models for Assessing Hypoxia in Lake Erie. IAGLR 2010. May 17-21, 2010, Toronto, ON.
- 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.
131. Rucinski, D.K., D. Beletsky, J.V. DePinto, D. Scavia, and D.J. Schwab. 2009. Application and comparison of 1D and 3D lower food web models for Lake Erie. IAGLR 2009. May 18-22, 2009, Toledo, OH.
130. Arend, K., T. Höök, S. Ludsin, D. Rucinski, D. Beletsky, J. DePinto, and D. Scavia. 2009. Comparing effects of hypolimnetic hypoxia on yellow perch and rainbow smelt habitat suitability in central Lake Erie. IAGLR 2009. May 18-22, 2009, Toledo, OH.
129. Beletsky, D. and D. Schwab. 2009. Climatological circulation in Lake Michigan. IAGLR 2009. May 18-22, 2009, Toledo, OH.
128. Hu, H., J. Wang, D. Schwab, D. Beletsky, G. Leshkevich, N. Hawley, and A. Clites. 2009. Modeling Lake ice and circulation in Lake Erie. IAGLR 2009. May 18-22, 2009, Toledo, OH.
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.
122. RUCINSKI, D.K., BELETSKY, D., DEPINTO, J.V., SCAVIA, D., and D. SCHWAB. 2008. Development and Application of 1D Eutrophication Models for the Central Basin of Lake Erie. IAGLR 2008. May 19-23, 2008, Peterborough, ON.

121. RUCINSKI, D.K., BELETSKY, D., DEPINTO, J.V., SCAVIA, D., and D. SCHWAB. 2008. Long-Term Application of a Climate-Driven Dissolved Oxygen Model for the Central Basin of Lake Erie. IAGLR 2008. May 19-23, 2008, Peterborough, ON.
120. Höök, T., D. Beletsky, E. Rutherford, D. Mason, and D. Schwab. 2008. A linked hydrodynamic and individual-based model to simulate alewife recruitment in Lake Michigan. IAGLR 2008. May 19-23, 2008, Peterborough, ON.
119. Beletsky, D., and D. Schwab. 2008. Modeling thermal structure in Lake Erie. IAGLR 2008. May 19-23, 2008, Peterborough, ON.
118. Beletsky, D., D. Schwab, and M. McCormick. 2008. Nested grid circulation modeling in southern Lake Michigan. IAGLR 2008. May 19-23, 2008, Peterborough, ON.
117. Beletsky, D., D. Schwab, and M. McCormick. 2008. Evaluation of a 3D circulation model to predict bacterial contamination at Great Lakes beaches. 2008 Ocean Sciences Meeting, 2-7 March 2008, Orlando, FL.
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.
107. McCormick M, D. Schwab, D. Beletsky, P. Roberts, A. Winkelman, A. Foley, E. Gungor, and N. Nekouee. 2007. Dispersion of the Grand River Plume into the Coastal Waters of Lake Michigan. IAGLR 2007, May 28-June 1, University Park, Pennsylvania.

\*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.

97. 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. Ocean Sciences 2006, February 20-24, Honolulu, HI

96. D. Beletsky, D.J. Schwab, J. DePinto, and D. Dolan. 2006. Modeling Phosphorus Dynamics in Lake Erie and Implications for Hypolimnetic Oxygen Depletion Ocean Sciences 2006, February 20-24, Honolulu, HI.

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.
79. Beletsky D., D. Schwab, D. Mason, E. Rutherford, M. McCormick, H. Vanderploeg, and J. Janssen. 2003. Modeling the transport of larval yellow perch in Lake Michigan. Estuarine and Coastal Modeling, the 8th International Conference, November 3-5, 2003, Monterey, CA.
78. Rutherford, E., D. Beletsky, D. Schwab, D. Mason, M. McCormick, H. Vanderploeg, and J. Janssen. 2003. Modeling the influence of lake circulation on recruitment variability of Lake Michigan Yellow Perch. 27th Annual Meeting of the Early Life History Chapter of American Fisheries Society, 20-24 August, 2003 Santa Cruz, California.
77. Rutherford, E., D. Beletsky, D. Schwab, D. Mason, M. McCormick, H. Vanderploeg, and J. Janssen. 2003. Modeling the influence of lake circulation on recruitment variability of Lake Michigan Yellow Perch. PERCIS 3 Symposium: International meeting of percid fish biologists, 17 July, 2003, Madison, Wisconsin.
76. Schwab, D.J. and D. Beletsky. 2003. The physical mechanisms for offshore transport of bottom sediments during episodic resuspension events in Lake Michigan. The 46-th Conf. of IAGLR, 22-26 June, Chicago, IL.
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.
74. Rutherford, E., D. Beletsky, D. Schwab, D. Mason, M. McCormick, H. Vanderploeg, and J. Janssen. 2003. Modeling the influence of lake circulation on recruitment variability of Lake Michigan Yellow Perch. The

46-th Conf. of IAGLR, 22-26 June, Chicago, IL.

\*73. Beletsky, D. 2003. Modeling thermal structure, circulation and larval transport in Lake Michigan. Great Lakes WATER Institute Seminar Series, University of Wisconsin-Milwaukee, 4 June, Milwaukee, WI.

\*72. Rutherford, E., D. Beletsky, D. Schwab, D. Mason, M. McCormick, H. Vanderploeg, J. Dettmers, and J. Janssen. 2003. Modeling the influence of lake circulation on recruitment variability of Lake Michigan Yellow Perch. Great Lakes Fisheries Commission, Annual Meeting, 4 June, Thunder Bay, Ontario.

71. Beletsky D., D. Schwab, D. Mason, E. Rutherford, M. McCormick, H. Vanderploeg, and J. Janssen. 2003. Modeling the influence of lake circulation on recruitment variability of Lake Michigan Yellow Perch. Lake Michigan Technical Committee Meeting, March 18, Milwaukee, WI.

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.

68. Schwab, D.J.; Lesht, B.M.; Stroud, J.; Beletsky, D. 2002. The use of SeaWiFS imagery and a numerical sediment dynamics model for studying coastal processes in Lake Michigan. The 34<sup>th</sup> COSPAR Scientific Assembly, 10-19 October, Austin, TX.

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. Vesceky, 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.

63. Schwab, D.J and, D. Beletsky. 2002. Modeling the episodic resuspension and transport of fine-grained sediments in Lake Michigan. The 2002 Ocean Sciences meeting, February 11-15, Honolulu, HI.

62. Schwab, D.J and, D. Beletsky. 2001. Hydrodynamic and sediment transport modeling of episodic resuspension events in Lake Michigan. Estuarine and Coastal Modeling, the 7th International Conference, November 5-7, 2001, St. Pete Beach, FL.

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.

60. Beletsky, D. and Schwab, D.J. 2001. The physical mechanisms for offshore transport of bottom sediments during episodic resuspension events in Lake Michigan. The 2001 EEGLE-KITES workshop, September 20-23, Houghton, MI.

59. Stroud, J.R., Schwab, D.J., Lesht, B.M., Beletsky, D., and M.L. Stein. 2001. Remote sensing and spatial data applications for the Great Lakes. The 44-th Conf. of IAGLR, June 10-14, Green Bay, WI.

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.
55. Beletsky, D. 2000. Hydrodynamic and sediment transport modeling for the 1998 Lake Michigan coastal turbidity plume event. NOAA OAR review, December 4-5, Ann Arbor, MI.
54. Schwab, D.J and, D. Beletsky. 2000. Progress report on hydrodynamic modeling. EEGLE modeling group meeting. June 6, Ann Arbor, MI.
53. Beletsky, D., E. A. Maxeiner, J.H. Saylor, D.J. Schwab, and G.A. Meadows, 2000. Numerical modeling of internal bores in Lake Champlain. The 43-th Conf. of IAGLR, May 21-26, Cornwall, Ontario, Canada.
52. Beletsky, D., D.J. Schwab, K.W. Bedford, C. Chen, Y.P. Chu., J. Lou, P.J. Roebber, and R. Ji., 2000. Physical-Biological Modeling of Lake Michigan in the EEGLE Program. The 43-th Conf. of IAGLR, May 21-26, Cornwall, Ontario, Canada.
51. Beletsky, D., E. A. Maxeiner, and J.H. Saylor 2000. Numerical modeling of gravity currents and internal bores in Lake Champlain. GLERL workshop, April 24, Ann Arbor, MI.
50. Schwab, D.J., D. Beletsky, and B.J. Eadie, 2000. Episodic Events - Great Lakes Experiment. GLERL Open House lecture. April 16, Ann Arbor, MI.
49. Schwab, D.J., D. Beletsky, J. Lou, M.J. McCormick, G. S. Miller, J.H. Saylor, and P.J. Roebber. 2000. Modeling the 1998 coastal turbidity plume event in Lake Michigan. The 2000 Ocean Sciences Meeting, January 24-28, San Antonio, TX.
48. Beletsky, D., D.J. Schwab, G. S. Miller, and J.H. Saylor, 1999. Modeling sediment resuspension due to internal surges and seiches in Lake Champlain. GLERL seminar, December 2, Ann Arbor, MI.
47. Beletsky, D., 1999. Circulation in Lake Michigan. Lecture to a limnology class of the Bowling Green State University, November 17, Ann Arbor, MI.
46. Beletsky, D., D.J. Schwab, M.J. McCormick, G. S. Miller, J.H. Saylor, and P.J. Roebber. 1999. Hydrodynamic modeling for the 1998 Lake Michigan coastal turbidity plume event. Estuarine and Coastal Modeling, 6th International Conference, November 3-5, 1999, New Orleans, LA.
45. Beletsky, D., D.J. Schwab, J. Lou, M.J. McCormick, G. S. Miller, J.H. Saylor, and P.J. Roebber. 1999. Hydrodynamic and sediment transport modeling of March 1998 resuspension event in Lake Michigan. The 1999 EEGLE-KITES workshop, October 28-30, Minneapolis, MN.
44. Ji, R., C. Chen, D.J. Schwab, D. Beletsky, J.W. Budd, T.H. Johengen, G.L. Fahnenstiel. 1999. Modeling studies of the ecosystem of Lake Michigan: 1D and 3D numerical experiments. The 1999 EEGLE-KITES workshop, October 28-30, Minneapolis, MN.
43. Beletsky D, D.J. Schwab and J. Lou, 1999. Hydrodynamics of a coastal turbidity plume in Lake Michigan. The 42-th Conf. of IAGLR, May 25-29, 1999, Cleveland, OH.
42. Lou J., D.J. Schwab and D. Beletsky. 1999. Sediment resuspension and transport under waves and currents in Lake Michigan: a model study. The 42-th Conf. of IAGLR, May 25-29, 1999, Cleveland, OH.

41. Lou J., D.J. Schwab and D. Beletsky. 1999. Suspended sediment transport modeling in Lake Michigan. The 1999 Canadian Coastal Conference, May 19-22, 1999, Victoria, B.C.
40. Beletsky, D, and D. J. Schwab. 1999. Update on the hydrodynamic modeling in the EEGLE Project. GLERL/OSU modeling workshop, April 27-28, Columbus, OH.
39. Beletsky, D. 1999. Physical processes in Great Lakes, GLERL Open House lecture, April 25, 1999, Ann Arbor, MI.
38. Schwab, D.J., D. Beletsky, and J. Lou. 1999. Modeling and visualization of circulation patterns and sediment transport in Lake Michigan during episodic events. ASLO 1999 Aquatic Sciences Meeting, February 1-5, 1999, Santa Fe, NM.
37. Beletsky, D., 1998. Physical processes modeling in southern Lake Michigan. Lecture to a limnology class of the Bowling Green State University, November 11, Ann Arbor, MI.
36. Beletsky, D, and D. J. Schwab, 1998. Hydrodynamic modeling in the EEGLE Project. The 1998 EEGLE-KITES workshop, October 14-16, Ann Arbor, MI.
35. Beletsky, D., 1998. Climate and large lakes dynamics (Overview of CILER Task II). CILER Formal Review, July 15-16, Ann Arbor, MI.
34. Schwab, D. J., and D. Beletsky, 1998. Hydrodynamic modeling in the Lake Michigan Mass Balance Project. LMMBP Modeling Program External Review, June 23-25, Southgate, MI.
33. Beletsky, D., and D.J. Schwab, 1998. Simulation of the interannual variability of circulation and thermal structure in Lake Michigan. The 41-th Conf. of IAGLR, May 18-22, Hamilton, Ontario.
32. Schwab, D. J., and D. Beletsky, 1998. Modeling transport and mixing in the Lake Michigan Mass Balance Project. 1998 Ocean Science Meeting, February 9-13, San Diego, CA.
31. Beletsky, D., and D.J. Schwab, 1997. Modeling thermal structure and circulation in Lake Michigan. Estuarine and Coastal Modeling, The 5th International Conference, October 22-24, 1997, Alexandria, VA .
30. Schwab, D.J. and D. Beletsky, 1997. Internal Kelvin Wave Propagation in Finite Difference Models. Estuarine and Coastal Modeling, The 5th International Conference, October 22-24, Alexandria, VA.
29. Schwab, D.J. and D. Beletsky, 1997. Hydrodynamic modeling program in the Lake Michigan Mass Balance Project. Workshop on research needs for coastal pollution in urban areas, Oct. 16-17, Milwaukee, WI.
- \*28. Beletsky, D. 1997 Toward coupled ice-circulation model of Lake Michigan. Remote Sensing and Modeling Great Lakes Ice Workshop, October 8-9, Alexandria, VA .
27. Beletsky, D., K.K. Lee and D.J. Schwab, 1997. Recent advances in hydrodynamic modeling of the Great Lakes. XXVII IAHR Congress, August 15-18, San Francisco, CA.
26. Schwab, D. J., and D. Beletsky, 1997. Hydrodynamic modeling program. The 1997 EEGLE-KITES workshop, August 10-12, Milwaukee, WI.
25. Schwab, D.J., and D.Beletsky, 1997. Hydrodynamic modeling of Lake Michigan. The 40-th Conf. of IAGLR, June 1-5, Buffalo, NY.
24. Beletsky, D., J.H. Saylor, and D.J. Schwab, 1997. On the mean circulation in the Great Lakes. The 40-th Conf. of IAGLR, June 1-5, Buffalo, NY.



23. Beletsky, D., and D.J. Schwab, 1997. Visualization techniques for lake hydrodynamics studies. CGLAS/CILER Mini Symposium, February 4, Ann Arbor, MI.
22. Beletsky, D., and D.J. Schwab, 1996. Numerical modeling of circulation in Lake Michigan. CoastWatch users meeting, September 18, Ludington, MI - Manitowoc, WI.
21. Schwab, D.J., and D.Beletsky, 1996. Application of POM in the Great Lakes. Princeton Ocean Model users meeting, June 9-12, Princeton, NJ.
20. Beletsky, D., and D.J. Schwab, 1996. Modeling of the annual cycle of thermal structure and circulation in Lake Michigan. 1996 Ocean Science Meeting, February 12-16, San Diego, CA.
19. Beletsky, D., and D.J. Schwab, 1996. Developments in the Great Lakes circulation modeling. CGLAS/CILER Mini Symposium, February 2, Ann Arbor, MI.
18. Schwab, D.J, D. Beletsky, W.P. O'Connor, and D.E.Dietrich, 1995. Numerical simulation of internal Kelvin waves with z-level, and sigma level models. The 4th International Conference on Estuarine and Coastal Modeling, October 26-28, San Diego, CA.
17. Beletsky, D., W.P. O'Connor, and D.J. Schwab, 1995. Hydrodynamic modeling for the Lake Michigan mass balance project. U.S. EPA Workshop on Next Generation Environmental Models Computational Methods, August 7-9, Bay City, MI.
16. Beletsky, D., W.P. O'Connor, and D.J. Schwab, 1995. Numerical simulation of internal Kelvin waves in lakes. The 38-th Conf. of IAGLR, May 28-June 1, East Lansing, MI.
15. Beletsky, D., A.M. Kryutchkov, L.V. Sergeeva, and E.A. Yudin, 1995. Large scale circulation impact on effluent transport and trace element distribution in bottom sediments of Lake Ladoga. The 38-th Conf. of IAGLR, May 28-June 1, East Lansing, MI.
14. O'Connor, W.P., D. Beletsky, and D.J.Schwab, 1995. Internal Kelvin waves in lakes. CGLAS/CILER Mini Symposium, January 2, Ann Arbor, MI
13. Beletsky, D. , 1994. Lake circulation model studies. GLERL Seminar, December 15, Ann Arbor, MI.
12. Beletsky, D., 1994. 3-D modeling of the thermal structure and circulation in large lakes. National water Research Institute, September 8, Burlington, Ontario, Canada.
- \*11. Beletsky, D., 1994. Thermal structure and circulation of Lakes Ladoga and Onega. NHRI Seminar Series, September 10, Saskatoon, Saskatchewan, Canada
- \*10. Beletsky, D., 1994. Numerical modelling of wind-induced currents in Lake Ladoga. Karelian Institute Seminar Series, University of Joensuu, February 20, 1994, Joensuu, Finland .
9. Beletsky, D., 1993. Numerical modelling of wind-induced currents in large lakes. The 1st Int. Lake Ladoga Symposium, 22-26 November, St.Petersburg, Russia.
8. Beletsky, D. 1993 Ecological problems of Lake Ladoga. CEU student conference, July 30, 1993, Budapest, Hungary
- \*7. Beletsky, D., N.N. Filatov and R.A. Ibraev. 1992. Hydronamics of Lakes Ladoga and Onega. Physical Limnology and Water Quality Modeling of Large Lake Systems workshop, October 19-23, Petrozavodsk, Russia
6. Beletsky D. 1992. Numerical Modeling of Circulation in Lake Onega. Ph.D Thesis Defense, May 20, 1992,

Institute for Lake Research, Russian Academy of Science, St.Petersburg., Russia

\*5. Beletsky, D., and N.N. Filatov, 1991. Diagnostic calculations of circulation in Lake Onega. Conference on Numerical Modeling for the Scientific Program "Sections". October 14-16, Odessa, Ukraine.

4. Beletsky, D., 1990. Numerical modeling of circulation in Lake Onega. Hydrosociences- 90 Symposium, January 21-23 St.Petersburg, Russia.

3. Filatov N.N., Yu.L. Demin, G.S. Dvoryaninov, D. Beletsky, and L.V. Zaitsev, 1989. Hydrodynamics of lakes: experimental investigation, numerical modeling and model verification. The 1st Int. Lake Baikal Conf., December 5 Irkutsk, Russia.

\*2. Beletsky, D., and N.N. Filatov, 1988. Diagnostic calculations of circulation in Lake Onega. Russian-Finnish Physical limnology workshop, November 19-20, 1988, Petrozavodsk, Russia

\*1. Beletsky, D., and N.N. Filatov, 1988. Numerical simulation of circulation in Lake Onega. Institute of Numerical Mathematics Seminar Series, October 6, 1988, Moscow, Russia