



National Centers for Coastal Ocean Science
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Center for Sponsored Coastal Ocean Research

CSCOR Great Lakes Research Showcased at International Conference

CSCOR-Sponsored Sessions

[Evaluation of the Current State of Ecological Modeling and Future Perspectives.](#) George Arhonditsis and Craig Stow (session MS 2172, *Tuesday, May 18, 3:20-5:00 p.m.*)

[Recent Science, Monitoring, and Modeling in Lake Erie.](#) Joseph DePinto, Jan Ciborowski and Jeff Reutter (session MS 3153, *Friday, May 21, 8:00 a.m.-12 noon*)

CSCOR-Supported Research Presentations and Posters

CSCOR Program: [Ecological Forecasting \(ECOFORE\)](#)

CSCOR Project: [Forecasting the Causes, Consequences, and Potential Solutions for Hypoxia in Lake Erie](#)

[Estimating the History of Hypoxic Spatial Extent in Lake Erie.](#) Y. Zhou, A. M. Michalak, D. Scavia, D. Rucinski (*oral presentation, Tuesday, May 18, 9:00-9:20 a.m.*)

[Causes of Increased Dissolved Reactive Phosphorus Loading to Lake Erie.](#) D. B. Baker, R. P. Richards, J.P. Crumrine (*oral presentation, Wednesday, May 19, 9:00-9:20 a.m.*)

[Modeling Great Lakes Fish Spatial Distributions.](#) E. S. Rutherford, D. M. Mason, T. O. Hook, C. A. Joseph, S. A. Adlerstein-Gonzalez, J. A. Tyler, J. E. Johnson (*oral presentation, Thursday, May 20, 1:20-1:40 p.m.*)

[Using the Soil and Water Assessment Tool \(SWAT\) to Evaluate the Impact of Agricultural BMPs on Riverine Nutrient Export to Lake Erie.](#) N. S. Bosch, J. D. Allan, H. Han, R. P. Richards (*oral presentation, Friday, May 21, 8:00-8:20 a.m.*)

[Spatial and Temporal Variation in Phosphorus Budgets for 24 Lake Erie and Lake Michigan Watersheds.](#) J. D. Allan, H. Han, N.S. Bosch (*oral presentation, Friday, May 21, 8:20-8:40 a.m.*)

[Ecosystem Level Assessments of Hypoxia Impacts on the Food Web and Fisheries of Lake Erie.](#) H. Zhang, E. S. Rutherford, D. M. Mason, T. B. Johnson, A. T. Adamack, X. Zhu, D. Scavia (*poster presentation, Friday, May 21*)

[3-Dimensional Water Quality Models for Assessing Hypoxia in Lake Erie.](#) D. K. Rucinski, D. Beletsky, J. V. DePinto, D. Scavia, D. J. Schwab (*poster presentation, Friday, May 21*)

CSCOR Program: [Ecology and Oceanography of Harmful Algal Blooms \(ECOHAB\)](#)

CSCOR Project: [Investigating Chronic Toxicity and Bioaccumulation of Microcystins in Freshwater Fishes Using Toxicogenomics and Histopathology](#)

From Zebras to Cats: Development of Transcriptional Biomarkers in Larval Zebrafish for Application to Channel Catfish Exposed to Microcystis and the Cyanotoxin Microcystin. E. D. Rogers, T. B. Henry, M. J. Twiner, J. S. Giouffon, G. S. Saylor, S. W. Wilhelm (*oral presentation, Tuesday May 18, 3:20-3:40 p.m.*)

CSCOR Program: Multiple Stressor Research (MULITSTRESS)

CSCOR Project: Understanding Multiple Stressors in Coastal Ecosystems: Advancing Adaptive Management in Saginaw Bay

Calibration and Diagnostic Analysis of SAGEM2, a Fine-Scale Ecosystem Model of Saginaw Bay. J. V. DePinto, E. M. Verhamme, T. R. Redder (*oral presentation, Wednesday, May 19, 3:20-3:40 p.m.*)

Modeling the Impacts of Zooplankton Abundance on Walleye and Yellow Perch YOY Growth and Survival in Saginaw Bay, Lake Huron. L. N. Ivan, T. O. Hook (*oral session, Thursday, May 20, 8:40-9:00 a.m.*)

Diet Selection and Growth of Age-0 Yellow Perch (*Perca flavescens*) in Saginaw Bay, Lake Huron.. C. R. Roswell, T. O. Höök, S. A. Pothoven. (*poster session, Thursday, May 20*)

Special and Temporal Analysis of Nutrient vs. Light Limitation of Benthic Algae in Saginaw Bay. K. A. Peters, D. R. Dziekan, S. D. Pecor, S. N. Franceour, J. Bressie Dyble, C. A. Stow (*oral session, Friday, May 21, 9:00-9:20 a.m.*)

Estimation of Saginaw River Nutrient and Sediment Loads. W. Tao, C. De Marchi, T. H. Johengen, C. He (*poster session, Friday, May 21*)