

WEDNESDAY, OCTOBER 9 – MORNING SESSIONS

	Seminar Room E	Seminar Room F	Seminar Room G
	Great Lakes Remote Sensing	Fish, Fisheries & Management (1)	Saginaw Bay
8:30	J. Klassen Lake Huron basin remote sensing: A Great Lakes Restoration Initiative collaboration	S. C. Riley Status and trends of the Lake Huron offshore demersal fish community, 1976-2018	C. Stow Saginaw Bay nutrients: Not that much has changed recently
8:50	K. Bosse Seasonal patterns of Saginaw Bay inherent optical properties with implications for remote sensing	N. Godby Status of introduced salmonines in Lake Huron	A. Gatch Custodial maintenance of Lake Huron's natural spawning reefs
9:10	N. Luymes Object-based approaches to map vernal pools in eastern Georgian Bay, Ontario	T.A. Cwalinski Lake Huron Atlantic salmon management program update	Contaminants D. Ager Overview of USEPA Great Lakes National Program Office Contaminant monitoring programs–Lake Huron focus
9:30	M. Miller Mapping hydrological connections on Lake Huron to identify coastal wetlands	M. Zink Evaluating the success of Michigan DNR's Lake Huron Atlantic salmon stocking program	M. Ripley Fish contaminant advice for Great Lakes Native American communities using mobile technology
9:50	M. Battaglia Monitoring Lake Huron coastal wetlands using synthetic aperture radar	T.O. Brenden A combined lakes Michigan and Huron Statistical catch-at-age model for chinook salmon	
10:10	Break		
10:30	A.F. Poley Improving land cover change detection techniques using Google Earth Engine	S.M. Nowicki Sea Lamprey control in Lake Huron	Economics & Sustainability J. Empson Laporte Looking at environmental solutions using economic lenses: LEAN principles to implement change and manage risk
10:50	A. Grimm A multi-disciplinary approach to Phragmites monitoring and management in Saginaw Bay	E.S. Dunlop Metabolic and growth response of lake trout strains to warmer temperatures	S. Naylor Ecologically sustainable net pen rainbow trout aquaculture in Lake Huron
11:10	C.N. Brooks Quantifying effects of invasive Phragmites and Eurasian watermilfoil management with drones	S. Koproski Status of Lake Trout in Lake Huron 2018	Outreach & Communication L.M. Fry Lake Huron water levels: Historical context, current conditions, and related U.S. Army Corps of Engineers products
11:30	L. Spaete The use of remote sensing to manage Minnesota state lands	J.X. He Dynamics of lake trout production in the main basin of Lake Huron	K. Salazar Tipping Point Planner: Addressing Great Lakes nutrient and habitat issues through collaborative planning
11:50	Plenary featuring Mike Kelly , The Conservation Fund Great Lakes Office (Rhea Miller Recital Hall)		
12:50	Lunch (Marketplace at Doan)		

WEDNESDAY, OCTOBER 9 – AFTERNOON SESSIONS

	Seminar Room E	Seminar Room F	Seminar Room G
	Harmful Algal Blooms	Fish, Fisheries & Management (2)	Land To Lake Connections
2:00	D. Gill Assessing community need for a Saginaw Bay harmful algal bloom forecast	E. Adams Fish eggs and larval drift near the St. Marys River Rapids, MI	R.A. Williams Mapping the historic coastlines of Lake Huron and the Great Lakes Region
2:20	M. Rowe Development of a harmful algal bloom transport forecast for Saginaw Bay, Lake Huron	J.X. He Stock assessment of lake whitefish in Michigan waters of southern Lake Huron	S. Johnson Forests for lakes: Science, restoration, and lessons learned
	Habitat & Species	D.J. Stanton	R. Shaffer
2:40	S. Parker Lake Huron protected areas	DNA fingerprinting of walleye (<i>Sander vitreum</i>) from Saginaw Bay: Genetic effects of stocking	Conservation practices (i.e., BMPs) to reduce nonpoint source pollution in the Lake Huron Basin
3:00	A. Ania Buhl Dam area restoration: A partnership success story	D.G. Fielder Dynamics of the recovered Saginaw Bay walleye population	B. Wickerham Comparison of conservation cost share approaches in Saginaw Bay watershed: Pay for practice vs. pay for performance
3:20	M.J. Gass Reef restoration in Saginaw Bay: Improving habitat through partnerships	J.R. Bence Commentary on fish community objectives for Lake Huron	C. Rachol Assessing agricultural best management practices at the edge-of-field scale in Saginaw River basin
3:40	Break		
	A. Moerke	Coregonine Ecology & Mgmt (1)	Great Lakes Beach Association (1)
4:00	Habitat and fish responses to restoration of flow in the Little Rapids, St. Marys River AOC	E.S. Dunlop Dynamics and sustainability of lake whitefish in Lake Huron	C.M. Goodman Tribute to Partners in the Great Lakes Beach Association
4:20	P. Chow-Fraser Climate-associated changes in the structure and function of coastal habitats in Georgian Bay	C.L. Davis Overview of whitefish status and management in Ontario waters of Lake Huron	T. Rule Western Upper Peninsula flood emergency response
4:40	D.R. Pearsall Blue Accounting: Tracking investments and progress on key Great Lakes issues, with a focus on coastal wetlands	A.T. Duncan The ecological knowledge of the Saugeen Ojibway Nation regarding the status of ciscoes in Lake Huron	(continued)
5:00	J.P. Ludwig Stable isotopes confirm huge diet differences in cormorants across the Great Lakes.	D. Wells Spatial variation in lake whitefish larvae growth and density in Saginaw Bay and Thunder Bay, Lake Huron	(continued)
5:20	M. Gilbertson Colonial water bird numbers, clutch and egg size reflect ecological regime changes in Lake Huron colonies	S. Pothoven Early life feeding ecology of lake whitefish in Lake Huron	(continued)
5:45	Poster Reception (Banquet Room)		
7:00	Public Meeting featuring Jane Keon (Rhea Miller Recital Hall)		

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	General	Coregonine Ecology & Mgmt (2)	Great Lakes Beach Association (2)
8:30	<u>S.C. Riley</u> The state of Lake Huron in 2017	<u>R.L. DeBruyne</u> St. Marys River Rapids area provides valuable habitat for coregonine reproduction	<u>S.L. Belontz</u> The deposition and accumulation of microplastics in benthic sediments of Lake Huron
8:50	<u>A. Ertel</u> Lake Huron's binational partnership for community stormwater readiness	<u>R.L. Eshenroder</u> Status of cisco in Lake Huron	<u>C. Hakala</u> Talking poop with the public: Examples of healthy swimming outreach
9:10	<u>L. Greer</u> Lake Huron National Shoreline Management Study	<u>T.P. O'Brien</u> Spatial distribution and habitat use of Lake Huron ciscoes	<u>T. Edge</u> Sewage cross-connections to stormwater outfalls that impact recreational waters in Lake Ontario
9:30	(continued)	<u>W. Stott</u> Genetic Analysis of cisco (<i>Coregonus artedii</i>) population structure in Lake Huron	<u>D. Beauchamp</u> Implementing the new federal CSO public notification rule
9:50	<u>H. Siersma</u> Changes in sediment texture may inhibit the recovery of <i>Hexagenia</i> spp. in Saginaw Bay, Lake Huron	<u>C. Olds</u> Cisco re-introduction efforts in Lake Huron	Panel Discussion Q&A session will cover public communication strategies and health risks related to combined sewer overflow (CSO) discharges.
10:10	Break		
	Water Quality Monitoring Programs	2017 CSMI Reporting (1)	Great Lakes Beach Association (3)
10:30	<u>K. Cissell</u> Incorporating students and STEM teachers in a multi-year Saginaw Bay watershed monitoring program	<u>S. Shivarudrappa</u> Current state and long-term trends of Lake Huron benthos	<u>C. Robinson</u> The contribution of dirty sand to FIB water quality exceedances at two adjacent freshwater beaches
10:50	<u>N. Manning</u> The Heidelberg Tributary Loading Program: Lessons learned after 44 years	<u>T. Angradi</u> Towards improved benthic monitoring of the Great Lakes using underwater video	<u>S. Rakhimbekova</u> The role of groundwater-lake interactions on the delivery of pollutants to nearshore waters of the Great Lakes
11:10	<u>D.R. Pearsall</u> Pursuing a coordinated tributary and nearshore monitoring initiative for the Saginaw Bay watershed	<u>S. Bayba</u> Effects of <i>Dreissena</i> on benthos of Lake Huron	<u>L.R. Fogarty</u> Distinguishing onshore and offshore sources of <i>E. coli</i> to beaches
11:30		<u>A. Elgin</u> Regional, seasonal, and depth differences in quagga mussel growth	Overview of Student Poster Competition
11:50	A Conversation with the Council of the Great Lakes Region and International Association for Great Lakes Research featuring Mark Fisher , CEO of CGLR (Banquet Hall)		
12:50	Lunch (Marketplace at Doan)		

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	Nutrient & Lower Food Web	2017 CSMI Reporting (2)	Great Lakes Beach Association (4)
2:00	J. Pauer Lake Huron nutrients: We collected the lake data, now we need loadings and model results	S.E. Daniel Great Lakes DNA Barcode Reference Library: Mollusca, Annelida, and minor phyla	Members of the GLBA Beach 101
2:20	K.A. Bockwoldt Long-term and spatial trends in nutrients and seston stoichiometry in Lake Huron	D. Wells Estimating <i>Mysis</i> density and catch avoidance using the MOCNESS in Thunder Bay, Lake Huron	J. Kinzelman Overview of beach sanitary surveys
2:40	J. Watkins Status of lower trophic levels in Lake Huron	P. Glyshaw Examining fine-scale zooplankton distribution in Lake Huron using a LOPC and traditional net tows	R. Haugland Development of a recreational beach notification value for an <i>E. coli</i> qPCR method for the State of Michigan
3:00	M.B. Nevers Great Lakes <i>Cladophora</i> assessment: Conditions in Lake Huron	D.B. Bunnell Spatial variation in zooplankton productivity and rainbow smelt energetic condition	N. Isaacs Using rapid molecular based assays to monitor water quality at select Berrien County beaches
3:20	F. McCarthy Anthropogenic impact over the last millennium: Evidence from algal and zooplankton microfossils	B. Crimmins Lake Huron CSMI contaminants and food web markers: Great Lakes fish monitoring and surveillance program	J. Rose The IJC Centennial Study: Microbial source tracking across the Great Lakes
3:40	(continued)	A. Oppliger Larval fish assemblages and species dispersal in Lake Huron during 2017	C. Hakala Announcing dates/location of the 2020 Great Lakes Beach Association
4:00	Break		
	Aquatic Invasive Species	2017 CSMI Reporting (3)	Great Lakes Beach Association (5)
4:20	G. Wright Update of an early detection and monitoring program for non-native fishes in Lake Huron	M. Cabbage Quantifying spatio-temporal variation in environmental conditions for larval fish in Lake Huron	Members of the GLBA Rapid Methods for Enterococci, <i>E. coli</i> , and others (swimmers itch)?
4:40	B.C. Cahill Towards an adaptive management framework for European frog-bit (<i>Hydrocharis morsus-ranae</i> L.) management	L. Eaton Larval fish dynamics from the 2017 Lake Huron CSMI	Human Markers: HF183, HumM2, b. theta
5:00	J.V. Marcaccio Assessing the impact of grass carp on the ecology of coastal wetlands of eastern and northern Georgian Bay	H.A. Vanderploeg Organization of the pelagic food web in Saginaw Bay, Thunder Bay, and offshore Lake Huron	Livestock-Mammal Markers: pig, cow, bovine, dog, horse, others?
5:20		K. Kierczynski Spatial patterns and seasonal trends of Lake Huron predator diets	Bird Markers: goose, gull, duck?
5:40	CSMI Summary Session with pizza and cash bar (Banquet Room)		
6:45	Movie Night Documentary Screening of <i>Making Waves: Battle for the Great Lakes</i>		