	Cunday					
	Sunday					
1300		Check in open				
1700						
1715		Welcome Reception				
1730		'				
1800						
1815		A Paradigm for preventing cyanoHABs: The Why and How of				
1830	Wayne Carmichael	Moving from Monitoring and Management to Prevention and				
	Trajiio Gaiiiioilaoi	Remediation of Cyanobacteria Harmful Algae Blooms				
1845		(cyanoHABs)				
1900						
		Monday				
730						
745		Breakfast				
800						
815		Coffee				
830		Welcome Meeting				
	Detection	on, Identification and Diversity of CHABs				
845		Ecosystem effects of the novel "eagle killer" cyanotoxin				
900	Susan Wilde	aetokthonotoxin responsible for neuropathy and mortality in				
915		wildlife				
0.10		Appearance and toxin production potential of invasive				
930	In-Su Kim	nostocalean cyanobacteria in a large temperate river, the				
330		Nakdong River, Korea				
		Hiding in plain sight: Characterizing a novel cyanobacterium				
945	Cody Sheik	that packs a potent punch				
		Diversity of toxin-producing benthic cyanobacterial				
1000	David Berthold					
		proliferations from the Gulf Coast of Florida (USA)				
4045	Cabaction Count	Presence of less monitored bioactive cyanotoxins				
1015	Sebastien Sauvé	(anabaenopeptins, saxitoxins, and BMAA isomers) in surface				
4000		waters				
1030 1045	-	Coffee/Exhibits				
1043		Comparison of imaging flow cytometry and manual counts for				
1100	Sabina Perkins	assessing ecological status and harmful cyanobacterial				
1100	Cabina i Cikins	bloom monitoring				
		Evaluating the FluoroProbe as a tool for rapid chlorophyll <i>a</i>				
1115	Malcolm Barnard	and phytoplankton group identification during Western Lake				
1113	Maicolli barriaru					
		Erie CyanoHAB bloom conditions				
1130	Benjamin Gincley	Accessible quantitation of surface water phytoplankton with				
	-	ARTIMIS				
4445	0	Genetic biosensors to measure the activity of toxigenic				
1145	Sandra Lagauzere	cyanobacteria: towards a new standardized method to				
		forecast harmful algal blooms				
1200	Stuart Oehrle	Cyanobacterial toxins in recreational and intake waters using				
		a targeted UPLC/MS/MS method				
1215	Els Faassen	Critical evaluation of commercially available rapid tests for				
0	5 . 4455611	cyanobacterial toxin detection in surface water				

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1330	4		
		chnologies, Modeling, and Smart Lakes	
1345		T T	
	Reagan Errera	Exploring toxic cyanobacteria blooms using emerging	
1415		technologies: From space to the benthos	
	José Risco-Martin	IA-GES-BLOOM-CM: Creating synergies between biologist and engineers to develop tools for Cyanobacteria Bloom Management	
1445	Ernest Neafsey	Using Actionable Data to Achieve Successful HAB Control	
1500	Ed Verhamme	Lake Erie Early Warning Network for HABs: Past, Present, Future	
1515	Field verification of Cyanobacteria Assessment Network Jessica Cicale (CyAN) derived satellite estimates of cyanobacteria harmful blooms in Ohio lakes		
1530	Hoi-Ying Holman	Visualizing Cyanotoxins Behavior Using Synchrotron Infrared Spectral Microscopy	
1545			
1600		Coffee/Exhibits	
1615	Franesco Pomati	Automated underwater microscopy and machine learning to understand and forecast algal blooms	
1630	Emily Summers	Utilization of high frequency monitoring for an inland lake eutrophication model	
1645	Karina Gin	Multi-class secondary metabolites in cyanobacterial blooms from a tropical water body: distribution patterns and real-time prediction	
1700	Eva Riehle Exploring cyanotoxin diversity in field samples – an untargeted HRMS/MS based approach		
1715	+		
1730		Bar open	
1745	4		
1800	+		
1815		Posters (even numbers)	
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1900 1915			
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1930	()ntions	ll - Screening of <i>The Erie Situation</i> (University Hall)	
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730			
745			
800 815		Coffee	
		eria - Toxic CHAB in Freshwaters and Coastal Systems	
830		Biogeochemical constraints on ecosystem stoichiometry and	
	Thad Scott	its influence on cyanotoxin hazards	
900			
915	Hans Paerl	Tackling the global expansion of CyanoHABs along the freshwater to marine continuum: The need for a dual nutrient (N and P) control strategy	
930	Leah Egan	Phenology of cyanobacteria bloom development and maintenance in nutrient-rich Minnesota lakes differing in nutrient limitation status	
945	Kaela Natwora	The physiological and transcriptional response of harmful algal blooms in nitrogen limited lakes	
1000	Iwona Jasser	Cyanobacteria in hot pursuit: Characterization of cyanobacteria strains from thermal springs, including novel taxa, and comparison of their thermophilic ability with the genetic background.	
1015	Nada Tokodi	Photosynthetic efficiency in Polish and Australian Raphidiopsis raciborskii strains	
1030	Coffee/Exhibits		
1045		Environmental factors related to the distribution pattern of	
1100	Mikolaj Kokociński		
1115	Lukasz Wejnerowski	Identification of cyanometabolites and toxicity assessment of cyanobacteria isolates from chosen Polish eutrophic waters and polar glaciers	
1130	Sarah Caltabiano	Characterization of nitrate reductase in <i>Microcystis</i> aeruginosa PCC7806 wild type and non-toxic mutant strain	
1145	Shu Ham Te	Augmentation of cyanobacterial bloom microbiomes in response to <i>Microcystis</i> and <i>Synechococcus</i> blooms	
1200	Oloyede Adekolurejo	Low environmental microcystin concentrations affected sublethal population-level responses but not survival among freshwater keystone species	
	Justin Chaffin	Rates of microcystin production and biodegradation in the western basin of Lake Erie	
1230	•		
1245 1300	-	Lunch	
		LUIIGII	
1315			

Secondary Cyanometabolites – Structure, Biosynthesis, Physiological Function, Environmental Significance and Biotechnical Application				
1345 1400 1415	Elizabeth Janssen	Increasing confidence in identifying cyanobacterial metabolites to study their occurrence and behavior		
	John Ricca	Investigating the interaction between microcystins and cyanobacterial cells using nanoscale secondary ion mass spectrometry		
1445	Ruben Moron-Aser	Monitoring of intracellular and extracellular toxin/bioactive peptide production under physiological stress conditions through labeling by chemical modification		
1500	Sevasti-Kiriaki Zerv	Analytical workflow integrating LC-HRMS untargeted analysis and CyanoMetDB for fast and extensive detection of cyanobacterial metabolites		
1515	Ariel Kaminski	Impact of unidentified secondary metabolites from five new cyanobacterial species on aquatic plant		
1530	Markus Schwark	Aetokthonostatins: Highly cytotoxic dolastatin derivatives produced by the "eagle killer" cyanobacterium <i>Aetokthonos hydrillicola</i>		
1545 1600		Coffee/Exhibits		
1615	Elke Dittmann	Non-canonical carbon fixation in microcystin-producing cyanobacteria		
1630	Manthos Panou	Linking environmental heterogeneity and chemo-diversity in cyanobacteria: A culture-dependent profile based analysis		
1645	Pierre Van Horrick	Accumulation and elimination kinetics of free and total (free plus protein-bound) microcystin-LR in the common carp Cyprinus carpio		
1700	Emani Pinto	Investigation of CyanoMetabolites in Brazilian cyanobacteria using LC-MS-QTOF: distribution in different cultured strains, bloom samples and physiological studies		
1715 1730	_	Bar open		
1745 1800 1815 1830 1845 1900	- - -	Posters (odd numbers)		

		Wednesday			
730 745 800	Breakfast				
815		Coffee			
CHAE	CHABs and Omics: Advances in Genetics, Transcriptomics, Metabolomics, and Proteomics to Understanding CHABs				
830 845 900	Morgan Steffen	Progressing from exploratory studies to hypothesis testing: Harnessing the power of -omics tools to understand cyanobacterial harmful algal blooms			
	Theo Dreher	Diverse genome sequences from recent toxic and non-toxic US Pacific Northwest freshwater HABs belong to the Nostocales ADA clade			
930	Anders Kiledal	The Great Lakes Atlas of Multi-omics Research (GLAMR) Database: Facilitating the Great Lakes Research of Tomorrow			
945	Robbie Martin	Sulfolipid profiles of <i>Microcystis aeruginosa</i> and cyanobacterial blooms as an indicator of P availability			
1000	Xavier Mayali	Do <i>Microcystis</i> laboratory cultures hold clues to bacterial microcystin degradation?			
1015	Gwendolyn Stark	Microcystin aids in photo-acclimation during prolonged cold stress treatment in <i>Microcystis aeruginosa</i> strain PCC7806			
1030 1045		Coffee/Exhibits			
1100	Cecillio Valadez Cano	Anatoxin-producing and non-toxic strains of <i>Microcoleus</i> sp. coexist in benthic cyanobacterial mats in the Wolastoq (Saint John River, Canada)			
1115	Xuexiu Chang	Comparative metabolomics of exudates between toxigenic and non-toxigenic <i>Microcystis aeruginosa</i>			
1130	Jason Woodhouse	Insights from the global pangenome of Raphidiopsis raciborskii		No abstract fou	
1145	David Fewer	Phylogenomic insights into toxic bloom formation in the Baltic Sea			
1200	Katelyn McKindles	Cyanophages Infecting <i>Planktothrix agardhii</i> from a Lake Erie Embayment			
1215	Darius Dziga	Cyanophage resistance on proteome level in the bloom- forming cyanobacterium <i>Aphanizomenon flos-aquae</i>			
1230					
1300 1315		Lunch			
1245 1300		Lunch			

		by the Interdisciplinary Freshwater Harmful Algal Bloom				
Work	kshop (IFHAB) - Current and Future Issues in cHAB Detection, Monitoring, Mitigation and Management					
1345 1400 1415	Greg Boyer					
	Using citizen science to track harmful cyanobacterial blooms through crowdsourcing and crowdfunding - Adopt a Lake project					
1445	Paul MacKeigan	Quantifying microcystin concentrations, their composition and drivers across over 400 north-temperate and boreal Canadian lakes				
1500	Charles Trick	Harmonizing science and management options to reduce risks of cyanobacteria blooms				
1515	Akaash Bansal	Impact of Cyanobacteria on the pelagic phosphorus cycle				
1530	Kevin Erratt	The missing middle – Investigating a North American metalimnetic cyanobacteria layer				
1545 1600		Coffee/Exhibits				
	Lewis Molot	Long-term nitrate trends and possible cyanobacteria bloom prevention by nitrate oxidation of sediments in Hamilton Harbour				
1630	Robert Smith The economic costs of algal blooms: Great Lakes evidence and research priorities					
1645	Ethan McCann Deciphering the diversity and concentrations of cyanopeptides from blooms in Ontario and Quebec, Canada					
1700 1715		Coffee/Exhibits				
1713						
1745	Special Panel	Discussion Hosted by the Interdisciplinary Freshwater I Bloom Workshop (IFHAB) - Experts in the Hot Seat:				
1800		nd Lessons with Research, Risk Communication and Community Engagement				
1815	Moderator: Susan Watson - IFHAB/Trent University Wayne Carmichael - Wright State University Keith Loftin - U.S. Geological Survey Arash Zamyady - Water Research Australia Ltd Rene Sahba Shahmohamadloo - Washington State Univ/Univ of Guelph Ingrid Chorus - German Environment Agency					
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2015	Special reception h	osted by the Interdisciplinary Freshwater Harmful Algal Bloom Workshop (IFHAB)				
2030 2045						

	Thursday				
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745					
800		Coffee			
815		ns Between CHABs and the Phycosphere			
830	Interactio	is between Chabs and the Phycosphere			
	Greg Dick	New dimensions of <i>Microcystis</i> diversity: the phycosphere			
915	Vincent Denef	Trait variation in resource competition traits among <i>Microcystis</i> strains in presence and absence of their microbiomes			
930	Joanna Mankiewicz- Boczek	Bacterioplankton communities affect toxigenic <i>Microcystis</i> bloom – from environmental to laboratory study			
945	Wei Li	New insights on organic nitrogen assimilation in <i>Microcystis</i> phycosphere and impacts on microcystin production			
1000	Adam Antosiak	Modification of the freshwater <i>Aphanizomenon flos-aquae</i> cyanobacterium proteome at cyanophage infection			
	Nicolas Tromas	Conservation of CRISPR-based immunity in a decade of Microcystis-phage interactions in a natural lake			
1030		Coffee/Exhibits			
1045		obacteria in the Context of Climate Change			
1100					
	Dedmer van de Waal	Impacts of multiple global change factors on toxic cyanobacteria: from elements to traits and toxicity			
1145	Todd Miller	Unusual toxic cyanobacterial blooms in a tannin stained lake			
1200	Jerome Kok	Potential role of sulphate in cylindrospermopsin dynamics within urban freshwaters			
1215	Muriel Gugger	Bloom capacity of various <i>Microcystis</i> strains, are they all the same?			
1230	Spyros Gkelis	A Greek <i>Raphidiopsis raciborskii</i> strain and microcystins: A toxic relationship			
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1300 1315		Lunch			
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