

Friday, February 17th, 2023	2023 North Central Aquaculture Conference				
8:00 am – 4:00 pm	Registration				
7:00 am – 8:00am	Continental Breakfast				
8:00-8:20	Introduction: Room A (Ben Gollon, Clarence Bischoff, NCRAC Rep, City Manager)				
		Room A “Getting Started in Aquaculture” Mod: Emma Hauser	Room B “Developments in the Bait Industry” Mod: Don Schreiner	Room C “North Central Regional Project Updates” Mod:	
8:30 am – 9:00 am	E x h i b i t s O p e n	<i>Considerations in choosing a Species & System Type</i> Emma Hauser	<i>A Golden opportunity: Strategies to accelerate growth of Golden Shiner, <u>Notemigonus crysoleucas</u>, in Minnesota and other northern climates.</i> Don Schreiner	<i>Developing social license for trout aquaculture in the North Central region.</i> Amy te Plate-Church	
9:00 am – 9:30 am		<i>Fundamentals of Aeration, Understanding Oxygen Needs and Choosing Equipment to Match Your Needs</i> Bob Robinson	<i>Baitfish Potential in Aquaponics</i> Barry Thoele, Marc Tye	<i>Use of Audio to Dissuade Nuisance Avian Predators</i> Paul Brown	
9:30 am – 10:00 am		<i>Info and Resources to Help You Succeed</i> Matt Smith	<i>Live Bait and Invasive Species</i> Bret Shaw, Megan McEachran	<i>Assessing the Effectiveness of NCAC Funded Research in Aquaculture within the North Central Region</i> Domena Agyeman	
10:00 am – 10:30 am		Break			
		“Developing Strategies To Assist With Planning” Mod:	“MN Bait Industry” Mod: Barry Thoele	“MN Aquaculture” Mod:	
10:30 am – 11:00 am		<i>Developing a Business Plan</i> Matthew Lessard (tent.)	<i>Regulatory Issues, Opportunities, and Policy for Minnesota Bait Industry</i> Sean Sisler	<i>Auri report on MN aquaculture opportunities and challenges? Minnesota Consumer Survey on Food Fish</i> Harold Stanislawski	
11:00 am – 11:30 am		<i>Large Scale Financing - how to attract investors?</i> Glenn Ford	<i>Minnesota Bait Industry Discussion and Open Forum</i>	<i>Advancing the Great Lakes Aquaculture Collaborative</i> Amy Schrank	
11:30 am – 12:00 pm		<i>Exploring SARE Grants for Your Enterprise</i> Bill West, Erin Schneider		<i>Minnesota Aquaculture Plan</i> Jim Ostlie (tent.)	

12:00 pm – 1:00 pm	Lunch- Keynote Charlie Culpepper		
	“Real World Farmer Experiences” Mod: Spence Driver	“WI Bait Industry” Mod: Ben Gollon	“Fish Processing” Mod: Harold Stanislawski
1:00 pm – 1:30 pm	<i>Tour of Lincoln Bait Farm Barry Thoele</i>	<i>Regulatory Issues, Opportunities, and Policy for Wisconsin Bait Industry Todd Kalish, David Giehtbrock</i>	<i>A Comprehensive study of processing fish in local facilities for local food systems Kwamena Quagrainie</i>
1:30 pm – 2:00 pm	<i>Thoughts on an aquaponics facility with perch Jeni Blackburn</i>	<i>Wisconsin Bait Industry, Stockers: Open Discussion and Forum</i>	<i>Panel Discussing Fish Processing: Rules, Regs, Costs and Implementation Dean Dovolis, Peter Fritsch, Kyle Woolever, Mark Lehman, Chad Hebert</i>
2:00 pm - 2:30 pm	<i>Building Relationships to Make Better Decisions Spence Driver</i>		<i>Fish Processing: Open Discussion</i>
2:30 pm – 3:00pm		Break	
	“Shrimp Culture” Mod: Kieran Smith	“Percid Culture” Mod:	“Aquaculture Business & Marketing” Mod:
3:00 pm – 3:30 pm	<i>Minnesota Shrimp production at Simply Shrimp Bonnie Mulligan</i>	<i>Research Leading to Commercial Production of Walleye- Broodstock to Larval Stages Tyler Firkus</i>	<i>Phase I and II Marketing Project Summary Amy Shambach</i>
3:30 pm – 4:00 pm	<i>Shrimp Culture Startup Karlaena Brown</i>	<i>Percid in RAS - early feeds Kieran Smith</i>	<i>“Divide and Multiply: A Consumer Segmentation Analysis to Expand NCRAC Marketing Opportunities” April Athnos</i>
4:00 pm – 4:30pm	<i>Resource Utilization in Heterotrophic vs Autotrophic marine Shrimp Production Dave Brune</i>	<i>Budget Analysis of Yellow Perch RAS System from Egg to Market Chad Hebert</i>	<i>Determining market potential for food-fish aquaculture in Minnesota Hikaru Peterson</i>
4:30pm –5:00 pm	Commissioners of Ag presentations (WI: Randy Romanski/MN: Thom Peters)		
5:30 pm – 8:00 pm	Food demonstration and talk by Dani Klontz Conference Social & Banquet/ Silent Auction		

Saturday, February 18, 2023	2022 North Central Aquaculture Conference			
8:00 am – 12:00 pm	Registration			
8:00 am – 9:00 am	Continental Breakfast			
	E x h i b i t s O p e n	"Aquaculture Education K-12" Mod: Barb Evans	"Salmonid Culture" Mod:	"Fish Health" Mod: Nick Phelps
8:30am – 9:00 am		<i>Using Aquaculture and Aquaponics to Inspire K-12 Learning</i> Elliot Nelson	<i>Establishing large scale production and marketing systems for Atlantic Salmon</i> Kyle Woolever	<i>Introduction and Updates from WIDATCP. Overall Assessment of Fish Health Issues/Concerns For Locally Grown Species (trout, percids, tilapia, shrimp)</i> Nathan Haas, Darlene Konkle
9:00 am – 9:30 am		<i>Small Scale Hatching System for Use in Schools</i> Bill West	<i>Lessons learned in Salmonid culture at Jeremiah's Eat My Fish BullFrog Farm Updates</i> Dave Sundal	<i>Improving fish health in the integrating extension with the development of alternative disease prevention methods</i> Myron Kebus
9:30 am – 10:00 am		<i>Small scale classroom/educational methods: Perch Fry First Feeds</i> Colby Johnson	<i>Navigating the hurdles in sustainable trout production</i> Dan Vogler	<i>Development of Fish Vaccines</i> Bill Keleher
10:00 am – 10:30 am		Break		
		"Aquaculture Education K-12" Mod:	"Future of Feeds" Mod:	"Fish Health" Mod:
10:30 am – 11:00 am		<i>Examples from the classroom: K-12 teaching resources in aquaculture -</i> Barbara Evans, Elliot Nelson	<i>Current Feeds/Feeding Practices</i> Paul Brown	<i>Historical Summary of Vaccination Assessments Using Trout and Yellow Perch</i> Robert Smith
11:00 am – 11:30 am		<i>Designing and building mini-systems: A hands on activity</i> Barbara Evans, Elliot Nelson	<i>Updated research in feeds</i> Dong-Fang Deng	<i>Lab Challenge Study for Yellow Perch with Aeromonas sal.</i> Tom Loch
11:30 am – 12:00 pm		<i>Future of Feeds/Ingredients Alternative Protein Sources</i> Karolina Kwasek	<i>Field Studies/Data on Current Vaccination Studies</i> Robert Smith	