

GEN-FISH AGM '22

SCHEDULE

Thursday
November 3
9:00 am – 4:00 pm

STUDENT PRESENTATIONS & WORKSHOPS

8:30 am	<p>SHUTTLE RUNNING Shuttle departing the Best Western Plus Waterfront Hotel to GLIER, 2990 Riverside Drive West, Windsor</p>	
8:30 am	<p>SIGN-IN TABLE OPEN GLIER Foyer</p>	Room 248
9:00 am	<p>WELCOME REMARKS – DR. DANIEL HEATH GEN-FISH Co-Lead, Great Lakes Institute for Environmental Research, University of Windsor</p>	
9:05 am	<p>SCHEDULE OVERVIEW – JOE BRANGET & PAIGE BREAULT GEN-FISH Project Support, Great Lakes Institute for Environmental Research, University of Windsor</p>	
9:15 am	<p>PERSISTENT, INNATE CHALLENGES AND OPPORTUNITIES FOR CAPACITY BUILDING IN CANADIAN FRESHWATER FISHERIES – ANDREW HOWARTH Carleton University, Activity 5 Presentation</p>	Room 250
9:30 am	<p>THE PARENTAL THERMAL ENVIRONMENT CONTROLS THE OFFSPRING PHENOTYPE IN BROOK CHARR (<i>SALVELINUS FONTINALIS</i>): INSIGHTS FROM A TRANSCRIPTOMIC STUDY – GHIZLANE BANOUSSE Université du Québec à Rimouski , Activity 4 Presentation</p>	

9:45 am	<p>DEVELOPING TAQMAN OPEN ARRAY TO TEST CIRCADIAN CLOCK GENE EXPRESSION – AARYAN PATEL University of Windsor, Activity 3 Presentation</p>	Room 250
10:00 am	<p>IDENTIFYING AND QUANTIFYING ENTRAINED FISHES USING (e)DNA METABARCODING – ALEXANDER VAN NYNATTEN University of Toronto Scarborough, Activity 2 Presentation</p>	
10:15 am	<p>ENVIRONMENTAL DNA APPLICATIONS: DEVELOPING 20 SPECIES-SPECIFIC QUANTITATIVE PCR ASSAYS FOR NEW BRUNSWICK FRESHWATER FISHES – RINA GUXHOLLI University of New Brunswick, Activity 1 Presentation</p>	

10:30 am BREAK & SNACKS

11:00 am	<p>STUDENT 3-MINUTE PRESENTATIONS Brunet Baptiste Laura Haniford Erika Myler Kayley Head Markelle Morphet Patricia Voyer Morgan Anderson Steven Rogers Kory Bertrand Declan Burton Thomas Wu Tzitziki Loeza-Quintana Xiaoqing Dang Hossein Haghighi Cameron Brown Katrina Audet Carol Best Kyle Madden Ian Smith Dane Roberts Brooklynne Litke Mousumi Sarker Chhanda</p>	Room 250
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12:00–1:00 pm **LUNCH**

	SHUTTLE RUNNING	Room 248
1:00 pm	<p>THE SOCIAL AND ETHICAL IMPLICATIONS OF eDNA AND GENE TRANSCRIPTION WORK WITH FRESHWATER FISH – DR. AMY FITZGERALD</p> <p>This focus group is part of research being undertaken in Activity 5 of the larger GEN-FISH project. The purpose is to identify and develop a greater understanding of the social and ethical implications of eDNA and gene transcription work done specifically with freshwater fish. We are working to elicit input from a cross-section of people with different disciplinary backgrounds, occupational roles, and levels of knowledge regarding eDNA and gene transcription. This research has been approved by the University of Windsor’s Research Ethics Board.</p>	Room 250

2:00 pm **WORKSHOPS**

2:00–2:45 pm	<p>CASTING A NEW TYPE OF NET: IMPROVING RELATIONSHIPS BETWEEN QUANTITATIVE eDNA DATA AND ORGANISM ABUNDANCE – DR. MATTHEW YATES</p> <p>In this workshop, we cover a variety of variables that can influence steady-state eDNA concentrations in natural environments, and their implications for study design and data interpretation. Participants will gain a better understanding of important considerations for designing an effective study to correlate eDNA with organism abundance, as well as how to interpret and analyze quantitative eDNA data in this context. Integrating physiology into models of eDNA production, for example, may be important in some contexts; participants will also get the chance to practice analyzing the potential impact of allometry in eDNA production on eDNA/abundance correlations using ‘example’ datasets and a newly developed online tool.</p>	Room 250
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<p>2:45–3:30 pm</p>	<p>DEVELOPING GENOMIC TOOLS TO ASSESS HEALTH STATUS AND COPING CAPACITY OF CANADIAN FRESHWATER FISHES TO CHANGING ENVIRONMENTS – DR. SHAHINUR ISLAM</p> <p>Attendees will be guided through how "universal" quantitative PCR (qPCR) assays can be designed for a Salmonid-specific Stress Transcriptional Profiling Chip (STP-Chip). This STP-chip can be used in the framework of reducing abiotic and biotic stress in fish, improving fish health through more accurate diagnostic tests for disease, and adapting to accelerated climate change in Canada.</p>	<p>Room 250</p>
<p>3:30–4:45 pm</p>	<p>FISHERY MANAGERS PREFERENCE IN COMMON POOL RESOURCES – DR. TONGZHE LI</p> <p>A classic game called "common pool resources", taking approximately 75 minutes for introductions, game set-up (iPads will be provided), play, and debrief. Participants will be compensated based on their game outcomes.</p>	<p>Room 250</p>
<p>5:00 pm</p>	<p>WRAP UP – DR. DANIEL HEATH</p>	<p>Room 250</p>
	<p>SHUTTLE RUNNING</p> <p>Meet in the GLIER Foyer to depart on the shuttle to the Best Western Plus Waterfront Hotel, 277 Riverside Drive West, Windsor</p>	<p>Room 248</p>
<p>Doors open 6:00 pm</p>	<p>DINNER RECEPTION</p>	
<p>Meal begins 6:30 pm</p>	<p>St. Clair College Centre for the Arts 201 Riverside Dr. W. Windsor, ON N9A 5K4 Skyline A Ballroom</p>	

GEN-FISH AGM '22

SCHEDULE

Friday
November 4
9:00 am – 3:00 pm

PROJECT UPDATES & BREAKOUT DISCUSSIONS

8:30 am	<p>SHUTTLE RUNNING Shuttle departing the Best Western Plus Waterfront Hotel to GLIER, 2990 Riverside Drive West, Windsor</p>	
8:30 am	<p>SIGN-IN TABLE OPEN GLIER Foyer</p>	Room 248
9:00 am	<p>WELCOME REMARKS – DR. MARGARET DOCKER GEN-FISH Co-Lead, Department of Biological Sciences, University of Manitoba</p>	
9:05 am	<p>FISH SURVEY TOOLKIT (eDNA) Activity 1: Development of Fish Survey Toolkit Activity 2: <i>In situ</i> “ground-truthing” of Fish Survey Toolkit Brief questions</p>	
10:00 am	<p>FISH HEALTH TOOLKIT (STP-CHIP) Activity 3: Development of Fish Health Toolkit Activity 4: Multi-scale validation and proof-of-concept of Fish Health Toolkit Brief questions</p>	Room 250
11:00 am	<p>DECISION-GUIDING TOOLKIT (GE3LS) Activity 5: Development of Decision-Guiding Toolkit Modernizing Fisheries Management – Dr. Steven Cooke, Carleton University Brief questions</p>	

12:00–1:00
pm

LUNCH

	SHUTTLE RUNNING	Room 248
1:00 pm	GEN-FISH & COMMERCIALIZATION PIs, HQP, and GEN-FISH partners are invited to learn about what commercialization means for our project, examples of successful commercialization, and our desired outcomes.	Room 250
1:15 pm	BUSINESS ADVISORY COMMITTEE MEETING <i>Committee members only</i>	Room 247B
1:30 pm	BREAKOUT DISCUSSIONS	
1:30–2:00 pm	FISH SURVEY TOOLKIT (eDNA)	
2:00–2:30 pm	FISH HEALTH TOOLKIT (STP-CHIP)	Room 250
2:30–3:00 pm	DECISION-GUIDING TOOLKIT (GE3LS)	
3:00 pm	WRAP UP & THANK-YOU'S – DR. DANIEL HEATH	Room 250

SECOND ANNUAL
GEN-FISH
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