

Freshwater Restoration Ecology Centre (FREC)



University
of Windsor



Freshwater Restoration Ecology Centre



Freshwater Restoration Ecology Centre

Goals:

- To advance the science, practice and education of conserving freshwater fish biodiversity and ecosystems
- Increase public outreach and education



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Local Benefits of the Research Centre

Education / Outreach

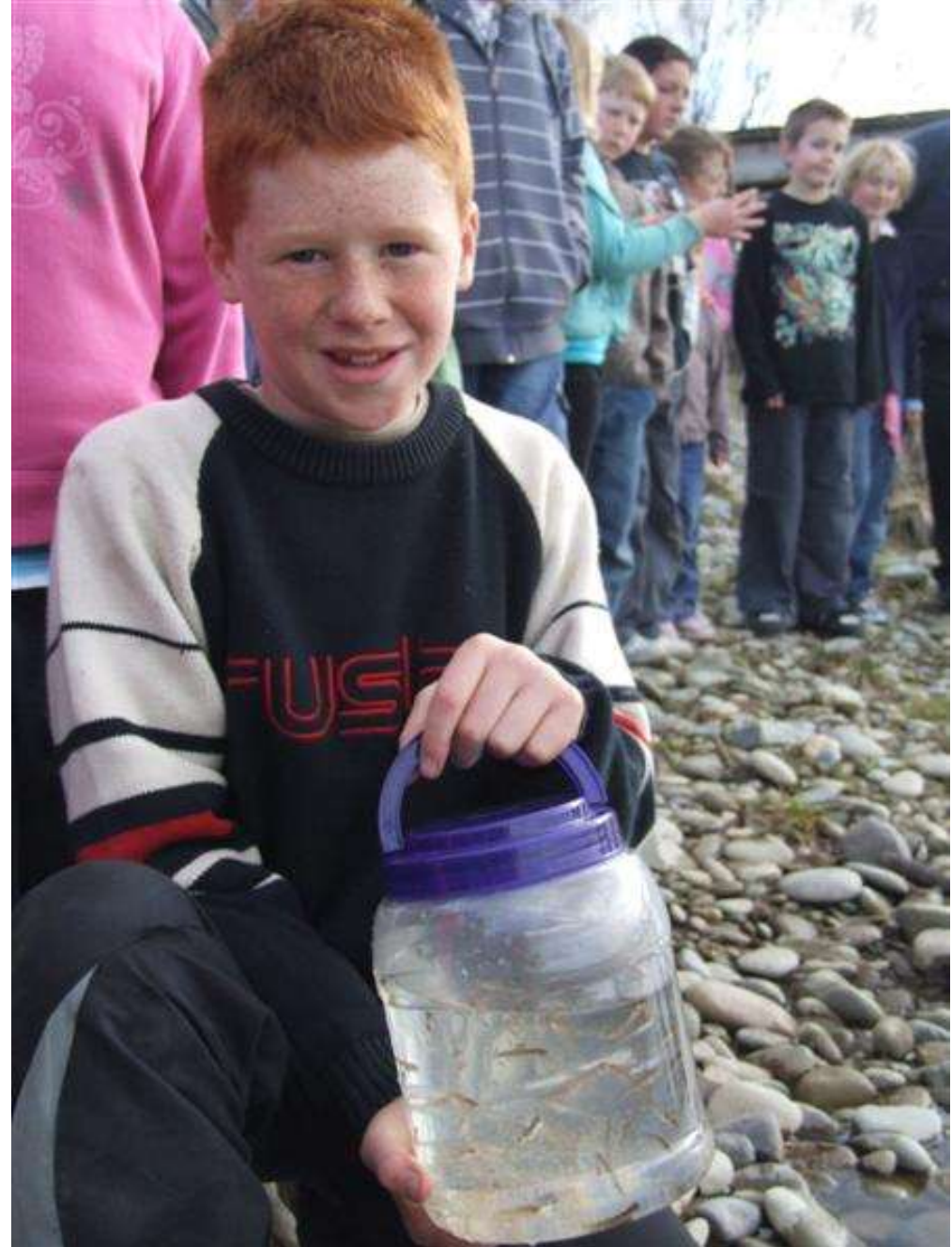
- Public environmental outreach programs
- Local environmental research expertise
 - Water issues
 - Environmental concerns
 - Fisheries
- High school and elementary school training and short courses
 - Visiting field courses
 - Novel environmental education partnering
 - Windsor and Essex school boards



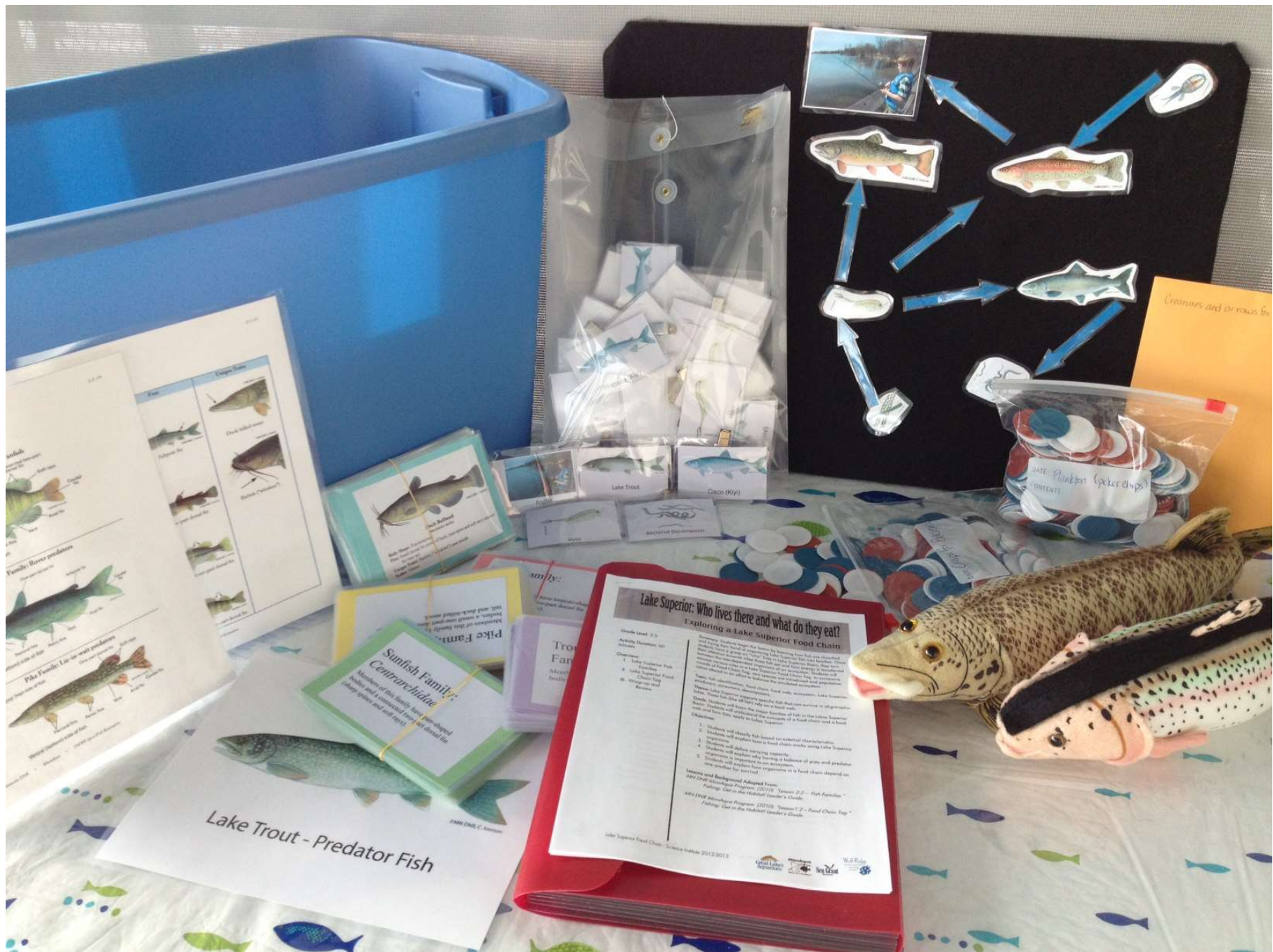
School Visits



“Adopt a Fish” Program



Teacher Education Kits



Public Engagement



Recognition for FREC



Lake Sturgeon restoration research



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Ontario

Ministry of Natural Resources



**U.S. Department of the Interior
Partners in Conservation Award**

Real-time Aquatic Ecosystem Observation Network Funding (RAEON)

Provincial & Federal Funding:

- **\$15.3M in funding**
- **Equipment**
- **Personnel (\$2M)**
- **Staging and laboratory**
- **Expansion for FREC**



Development Phases

3 Phases:

I. Early Rearing Fish Facility

II. Freshwater Mecocosms

III. Artificial Streams



Phase I: Early Rearing Fish Facility



Phase I: Early Rearing Fish Facility



Phase II: Freshwater Mecocosms



Funding Commitments - Phases 1 & 2

Phase I (completed)

1.Fish Hatchery & Equipment (UW/CFI/ORF)	\$372,936.00
2.Infrastructure Support (IOF)	\$ 27,251.00
3.Electrical Upgrade for Hatchery (UW)	\$ 6,000.00
4.Research Employee Support (ERA/NSERC)	\$ 32,000.00

Phase II (funding secured)

1. Freshwater Mecocosms (UW/CFI/ORF)	\$308,278.00
2. Renovations for Mecocosms (UW)	\$216,000.00
3. Great Lakes Research Support (VPRI)	\$ 80,000.00
4. Infrastructure Support (IOF)	\$ 40,000.00
5. Research Vessel (NSERC RTI)	\$ 97,000.00
6. Research Employee Support (ERA & NSERC)	\$ 34,000.00
7. Town of LaSalle support (council approved)	<u>\$ 90,000.00</u>
Total:	\$ 1,194,465.00

Phase III: Artificial Streams



Proposed Expenditures- Phase III

Phase III – Artificial Stream Facility

1. Riverdance Building add-on (CFI)	\$250,022.63
2. Concrete Artificial Streams & Pumps	\$100,000.00

RAEON Laboratory & Staging Facility

1. New building – staging and laboratory (CFI)	\$314,137.86
2. RAEON CFI/ORF Equipment (CFI)	\$6,300,000.00

Total: \$6,964.160.49

Outstanding issues for Phase III

- Expand current Riverdance building (FREC)
- Add a RAEON staging facility
- Outreach opportunities
- Town of LaSalle contribution (cash/in-kind)