



Great Lakes Invasive Carp Challenge

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DNR Executive Division
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Thanks to:

External Experts:

- John Goss (ACRCC)
- Nick Frohnauer (MNDNR)
- Phil Moy (ret SeaGrant)
- Duane Chapman (USGS)
- John Dettmers (GLFC)

Michigan Carp Team:

- Angela Ayers (Gov's office)
- Seth Herbst (DNR)
- Aaron Parker (DEQ)
- Nick Popoff (DNR)
- Sarah LeSage (DNR)
- Tina Stojakovich (DNR)
- Katy Till (MEDC)
- Trevor Pawl (MEDC)
- Ed Golder (DNR)
- Beverly Maddox (Detroit CoC)



Challenge and Process

- 353 solutions; 27 countries
- Internal and external expert judges – blind process
- Prevention of movement, not control
- 4 finalists; 6 runners-up



Carp Tank Event

- March 27 and 28
- Port Authority, Detroit
- Carp Tank
- Research and Development Symposium
- Great Lakes Carp Summit



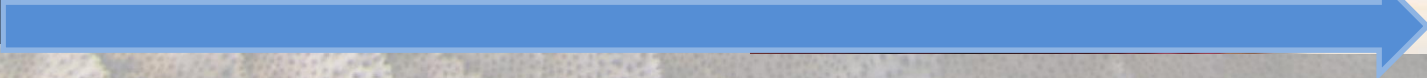
CARP TANK



GREAT LAKES

VS

INVASIVE CARP



CARP TANK

GREAT LAKES VS INVASIVE CARP



DNR Director Creagh



**John Frederickson,
Innocentive**



Governor Snyder



Judges: Governor Snyder, Dr. Denice Shaw, Mr. Jeff DeBoer, Dr. David Lodge

CARP TANK

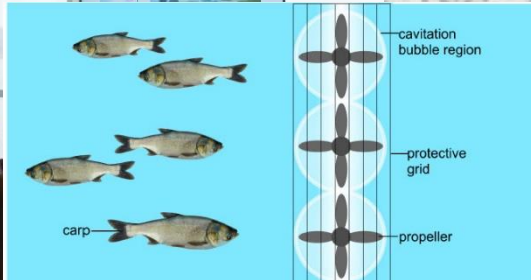
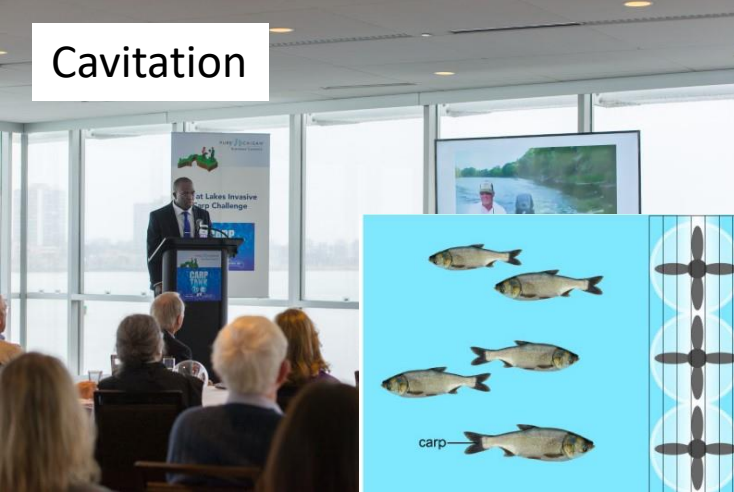


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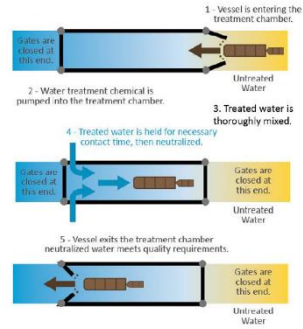
Cavitation



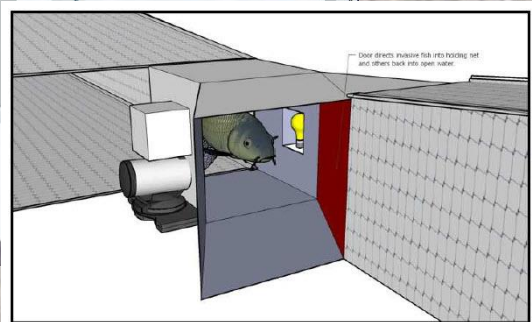
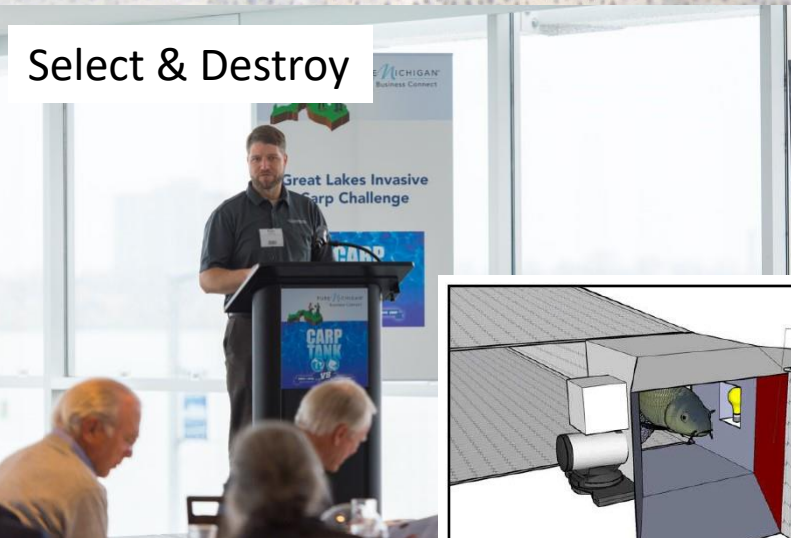
Lock Treatment



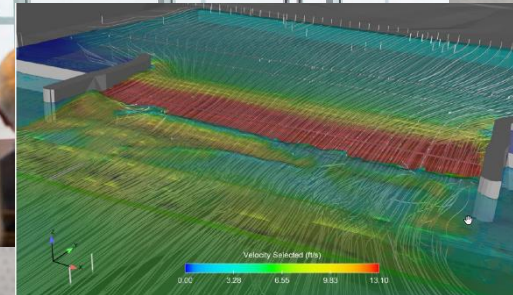
AIS Treatment Chamber Concept



Select & Destroy



Velocity Barriers



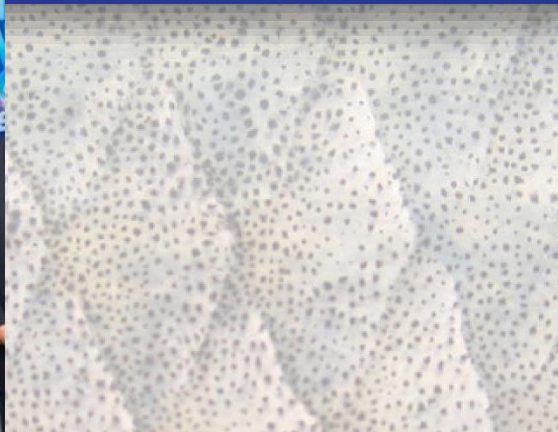
CARP TANK



GREAT LAKES

VS

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- **Micheal Ahimbisibwe** - *Primary Lock and Barrier Platform*
- **Stephen Walker** - *O2 Removal and CO2 Injection System for Control of Invasive Carp*
- **Philip Doberenz** - *Resonant Ultrasonic Carp Barrier*
- **Thomas Bliznik** - *Mechanical Fish Herder*
- **Lawrence P. Kearns, FAIA** – *FishFentz*
- **Matthew Cook** - *Remotely Operated Vehicle Recovery of Asian Carp by Acoustic Detection and Narcotization*



Next Steps

- Collaboration began at the meeting
- Continued conversations
 - U.S. Geological Survey – general meeting
 - U.S. Army Corps of Engineers – review solutions
 - U.S. Geological Survey – antimycin connection and CO₂

CARP TANK



VS

GREAT LAKES

INVASIVE CARP



Asian Carp

**a pain in the weir.
Protect the Great Lakes
Stop the invasion.**