NCRAC UPDATE 2013

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Chair, Industry Advisory Council
North Central Regional Aquaculture Center
WHAT IS NCRAC?

- North Central Regional Aquaculture Center
- One of 5 USDA Regional Aquaculture Centers
- Serves 12 states within the North Central Region (NCR)
- Diverse NCR Aquaculture Industry
  + Baitfish
  + Foodfish
  + Stocking
  + Ornamental
NCRAC’S MISSION

To enhance aquaculture through education, research and technology transfer to support a sustainable profitable industry throughout the NCR.

$400,000 - $425,000 annually to fund research & extension projects each year to accomplish the NCRAC mission.
MISSION ACCOMPLISHED BY:

- Developing transferable technology enabling producers to be profitable (Research);
- Engaging in research partnerships between industry, universities, and public agencies (Research);
- Disseminating relevant educational materials to achieve profitable margins of operation (Extension);
- Providing demonstrations and regular extension programs (Extension); and
- Fostering open dialogue and networking throughout the NCR aquaculture community (Partnerships).
NCRAC STRUCTURE

- Director: Dr. Joe Morris – Iowa State University
- Industry Advisory Council
- Technical Committees
  - Research Subcommittee
  - Extension Subcommittee
- Board of Directors
INDUSTRY ADVISORY COUNCIL

- Chair: Bill Lynch – Ohio
- 18 members
  - One selected by each State’s Aquaculture Assoc.
  - 6 at-large members selected by the Board of Directors
- Responsibility:
  - To develop and update NCRAC’s Priority List (PSL) based on industry needs. List in a few minutes.
  - To make final recommendations to the Board, after consultation with Research & Extension technical subcommittees, on which problem statements should move forward for project development.
TECHNICAL SUBCOMMITTEE / RESEARCH

- Chaired by Mr. Mark Gaikowski – USGS
- 16 members
  - Members nominated by Directors of State Agricultural Experiment Stations, plus relevant state and federal agencies within the NCR.
  - Board of Directors makes final appointments to ensure broad base of NCR expertise.
- Ohio’s members
  - Dr. Konrad Dabrowski – OSU SENR
  - Dr. Hanping Wang – OSU Piketon
TECHNICAL SUBCOMMITTEE / EXTENSION

- Chaired by Dr. Kwamena Quagrainie – Purdue Univ.
- 12 members
  + CES Director in each state appoints a representative from their state.
  + Either a CES or State Sea Grant Educator
- Ohio’s member
  + Dr. Laura Tiu – OSU Piketon
TECHNICAL COMMITTEE RESPONSIBILITY

- Assists the IAC in setting NCR research and Extension priorities.
- Jointly with the IAC, review and rank submitted problem statements to address above priorities.
- Primary developers of research & extension projects to address industry identified problems.
BOARD OF DIRECTORS

- **11 members**
  - 4 IAC Members, including Chair
  - Chair of the Technical Subcommittee / Research
  - Chair of the Technical Subcommittee / Extension
  - Rep. from Iowa State University
  - Rep. from Michigan State University
  - A CES Director or Assistant Director
  - An Agricultural Experiment Station Director or Assistant Director
  - One Director / Chair from non Land Grant Universities with aquaculture programs
EVeRT OF A PROJECTION

1. NCRAC Community submits 1-page problem statements. Must address PSL. (Oct. – Nov.)
2. IAC and TC committee members rank submitted problem statements. (Dec. – Jan.)
3. At annual meeting, IAC & TC review rankings and develop consensus on top 5 statements. (Feb.)
4. IAC finalizes top 5 problem statements and submits to the Board of Directors. (Feb.)
5. Board approves 0-5 statements and assigns maximum funding amount for each. (Feb.)
1. NCRAC Director asks for 3-4 page Statements of Interest (SI) for each Board approved problem statement. *(March)*

2. Project Review Committee (PRC) reviews the submitted SI’s for each problem statement and selects final “team” to develop full proposal. *(May)*
   a) Typically 2-3 universities
   b) Often state or federal agencies
   c) Industry & Extension liaisons
   d) Occasionally a commercial culture facility

3. All proposals undergo extensive review by industry & technical personnel from within and outside the region!
PRIORITY STATEMENT LIST (PSL)

1. Aquaculture Drugs
   a. Fish sedative
   b. Egg disinfection
   c. Disease prevention

2. Baitfish
   a. Production in natural basins
   b. Baitfish to finish foodfish
   c. Harvest efficiency

3. Yellow Perch
   a. Improved fingerling production
   b. Genetic improvement
   c. Effective least cost diets

4. Largemouth Bass
   a. Production of 1 lb. bass
   b. Effective least cost finishing diets

5. Sunfish
   a. Production of large sunfish
   b. Effective least cost finishing diets

6. Extension & Marketing
   a. Full-time Aquaculture Extension Specialist
   b. Business & marketing tools
   c. Easily exchanged info. on equipment, services etc.
RECENT PROJECTS RELEVANT TO OHIO

- Sunfish
  - Rapid Determination of Amino Acid Requirements of *Lepomis* Sunfish
  - Evaluation of the Newly Developed, Least Cost Experimental Diet for Bluegill
  - Evaluate Phase II Production of Bluegill Sunfish Comparing Least Cost Diet to Standard Industry Diets.
RECENT PROJECTS RELEVANT TO OHIO

- Yellow Perch / Largemouth Bass
  - Feed Training Carnivorous Fish: Yellow Perch & Largemouth Bass
  - Nutritional Factors Affecting Largemouth Bass Production to 1.5 Lbs. in Commercial Systems
  - Production of Genetically Improved Yellow Perch Lines at Commercial Densities in Ponds
RECENT PROJECTS RELEVANT TO OHIO

- **Fish Health**
  - Drug Approval Research on Terramycin 200 to Control Aerommonis in NCR Fish
  - Efficacy of Eugenol to Reduce Transport Stress and Mortality
  - Probiotics in Yellow Perch to Promote Health & Disease Resistance.
  - Viral Hemorrhagic Septicemia (VHS): Strategies to Prevent Spread in Commercial Facilities
Recent Projects Relevant to Ohio

- Extension / Marketing
  - Regional Aquaculture Extension Specialist
  - Assessment of Economic Impact of Aquaculture in the NCR
  - NCRAC & MarketMaker Adoption in the NCR
  - Survey of an Regional Aquaculture Co-op in the NCR.
Welcome to the NCRAC Website.

The North Central Regional Aquaculture Center (NCRAC) is one of the five Regional Aquaculture Centers established by Congress that are administered by the U.S. Department of Agriculture's Cooperative State Research, Education, and Extension Service. NCRAC is an administrative unit that serves the twelve states in the North Central Region: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

- Overview
- Strategic Plan (28 Kb pdf file)
- NCRAC Operations Manual (126 Kb pdf file)
- Policies (41 Kb pdf file)