Globalization and Fisheries Management: what does it mean for educators?

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Outline

• Current situation
• Challenges in higher education
• Potential approaches
• Reflect on future
Marine and Freshwater Fisheries Management

- FW / SW have maintained somewhat separate existence
- Greater number traditional programs inland fisheries management
Developing and Developed World

- Global markets and demand for access
- Recreation
- Food – market and subsistence
- Need for education
Challenges to Educational Systems

- Economic resources
- Competition between programs within and among institutions
- Pace of change
- Demographic challenges
Increase Participation of Diverse Stakeholders

- Recruitment and retention of minorities---majorities??
  - Women
  - Aboriginal peoples
  - Hispanics
  - Asian
  - African Americans
Economic Realities

- Academic programs faced with reduced funds for discretionary spending and program development
- Increased federal oversight of external funding
- Universities have developed an entrepreneurial vision for survival
Focus & Dilemma for Traditional F & W Programs

• Local or regional perspective of state/provincial agencies
• Need for mixing of ideas, and skills to integrate local with larger issues
• Policy relevant information needed at all levels
National and International Needs

• Focus research and educational themes to integrate understanding ecological functions and biodiversity

• Knowledge of communities, governance, and the needs of developing countries for food safety, and sustainable resources
Can We Develop Sustainable Natural Resources?

- We must weave the our disciplines to understand and face the international challenges
  - Environmental
  - Social
  - Economic
The Future Challenge

• Future leaders need to have access to spatially explicit information of many sources
• Future leaders need expertise in policy and social/economic factors
• Future leaders need sensitivity to multi-cultural views and approaches
Global Communities Needs

• Integrated and sophisticated skills in modeling and ecology
• Threats from invasive species from increased commerce and transport
• Climate change
Interpersonal skills

- Training in methods for co-management
- Negotiation skills
- Decision making tools
Bridging Ecology, Culture and Governance

- Social values and processes and minority opinions
- Ecological principles and tools
- Economic factors and value of resources
Recommendations

• Foster exchanges among programs using technological tools e.g. web classes, Skype ... 
• Recognize the need to train for global service and needs 
• Foster sense of responsibility among students to global issues