

***Welcome***

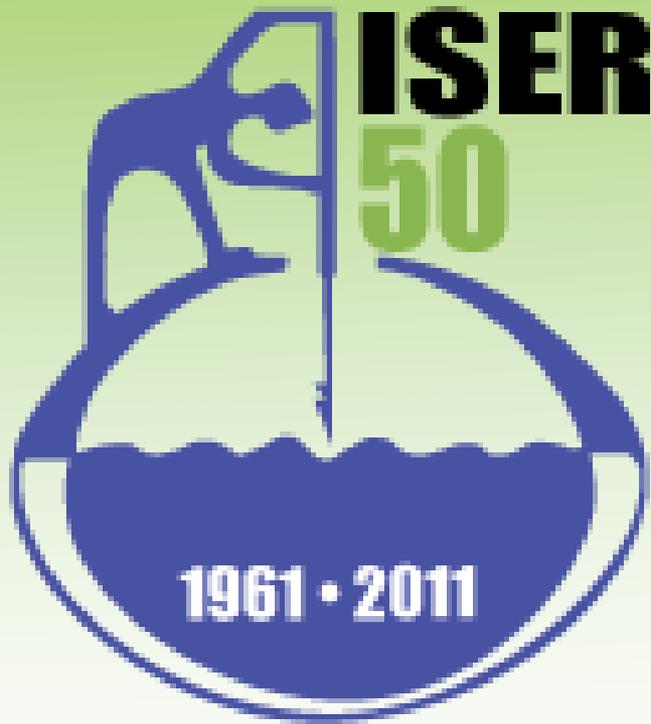
***Strengthening Institutions Workshop***

*March 3, 2011*

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# Celebrating 50 years of ISER: 1961-2011



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*A forum to explore, discuss, and plan for sustainable development in a North experiencing rapid transformation*

Current Projects include:

- Book: ***North by 2020: Perspectives on Alaska's Changing Social-Ecological Systems***
- Seminar: ***Defining Risk in Arctic Coastal and Offshore Resource Development***
- Coastal Currents Workshop
- Arctic Scenarios Institute

# Strengthening Institutions

- 3 year collaboration of ~12 researchers (5 Universities) and practitioners
- Book chapter: *Strengthening Institutions for Stakeholder Involvement and Ecosystem-Based Management in the U.S. Arctic Offshore*
- This workshop funded by National Science Foundation
- Co-chair: Chanda Meek

# Cooperative Solutions to Wicked Problems

Four bodies of social science literature:

1. Wicked problems
2. Participatory democracy
3. Social psychology of risk and decision making
4. Institutional design for common property resource management

# Arctic Ocean Management is a ***“Wicked Problem”***

The problem of balancing multiple uses is:

- Ill-defined: *plurality of perspectives; no set alternatives*
- Novel: *emerging technologies, changing environment, dynamic social, legal and political demands; path dependent*
- Complex: *common property; social and ecological interdependencies, technical complexities and scientific uncertainties; interdependencies of stakeholders with differing views and values, and multiple organizations at different levels*
- No final solution: *interactive and adaptive*
- No right or wrong: *only better or worse*

# Engaging Collective Intelligence

- Wicked problems are too complex to be resolved by modern, technocratic decision-making
- Better solutions engage collective intelligence across all knowledge holders
- Better solutions are reached through extended, face to face, facilitated dialog

# Participatory Democracy

- Participatory and deliberative methods of decision-making promote equitable solutions to resource conflicts
- Effective participation includes:
  - Substantive input about processes as well as outcomes
  - Consideration of preferences of all stakeholders
  - Mechanisms for reaching compromises and resolving conflict
  - Capacity to recognize and correct error

# The Social Psychology of Risk

- Systematic cognitive biases and limitations in decision-making under risk
  - Myopia, impatience, excessive discounting, loss aversion
- Institutions can mitigate cognitive and emotional biases
  - Use context to prime appropriate decision goals and values
  - Group context primes cooperation and longer time horizons

# Principles for Effective Common Property Institutions (Ostrom 1990)

1. Clear boundaries and membership
2. Collective choice arenas - *most individuals affected by the rules can participate in modifying the rules*
4. Conflict resolution mechanisms
  - *all parties have ready access to arenas to resolve conflicts*
5. Nested units
  - *The scope of the unit matches the scope of the problem*

# Workshop objectives

- Learning through dialog about challenges of arctic marine management and forms of cooperative planning and management
- Preparing a written summary identifying challenges and possible strategies or principles

# Outcomes and products

- Review draft workshop summary will be sent to program committee and participants for review
- Final products will be sent to registered participants and available on project website
- Workshop products (other than keynotes) will be without attribution.

# Some ground rules

- Diverse participants here with different roles and responsibilities
- Listen with open mind, seek clarification and understanding
- No recording. No attribution of comments to individuals.
- Silence cell phones
- Be mindful of start and end times

# Program overview

- 1. What are the current and future challenges of Arctic marine resource management?*
- 2. What forms might cooperative planning and management take?*
- 3. How do we assess the alternatives?*
- 4. Discussion and synthesis*

# In your packet you will find...

- Program
- Dots
- Models, narratives and illustrations
- Breakout session worksheet
- Evaluation form

# Thank you

- *To program committee members:* Kim Kruse, Doug Vincent-Lang, Doug DeMaster, Ukallaysaaq Okleasik, Michael Baffrey
- *To conference staff:* Leigh Coppola and Erin Shew
- *To reception sponsors:* Alaska Ocean Observing System and Alaska SeaLife Center
- *To our funder:* National Science Foundation

# And...

- *To our research team:* Betsy Baker, Laura Chartier, Glenn Gray, Sue Hazlett, Gary Mendivil, Dave Norton, Sarah Palmer, Jim Powell, and Jonathan Rosenberg