

**INTERDISCIPLINARY  
EDUCATION & RESEARCH AT UAF:  
PROSPECTS AND CHALLENGES**

# TASK FORCE MEMBERS

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- Raymond J. Barnhardt, Alaska Native Knowledge Network, Center for Cross Cultural and Indigenous Studies
- Lawrence K. Duffy, Institute of Arctic Biology, Chemistry and Biochemistry
- Ginny Eckert, Fisheries and Ocean Sciences
- Joshua Greenberg, Humans and the Environment, School of Natural Resources and Agricultural Sciences
- Gary Jacobsen, Secondary Education Dept
- Chanda Meek, Political Science Dept
- Silke Schiewer, Civil and Environmental Engineering, Engineering and Mines



- *“a mode of research [or learning] undertaken by teams or individuals that integrates information, data, techniques, tools, perspectives, concepts, and/or theories from two or more disciplines or bodies of specialized knowledge to advance fundamental understanding or to solve problems whose solutions are beyond the scope of a single discipline”*

# Reasons for interdisciplinary at UAF

- Being relevant to societal problems; making a link with the public and policy makers (e.g., AK Legislature)
- Educating the “New Public Intellectual”
- Funding requirements for interdisciplinary approaches
- Poised to become a world leader in interdisciplinary research & education
- Growing student demand

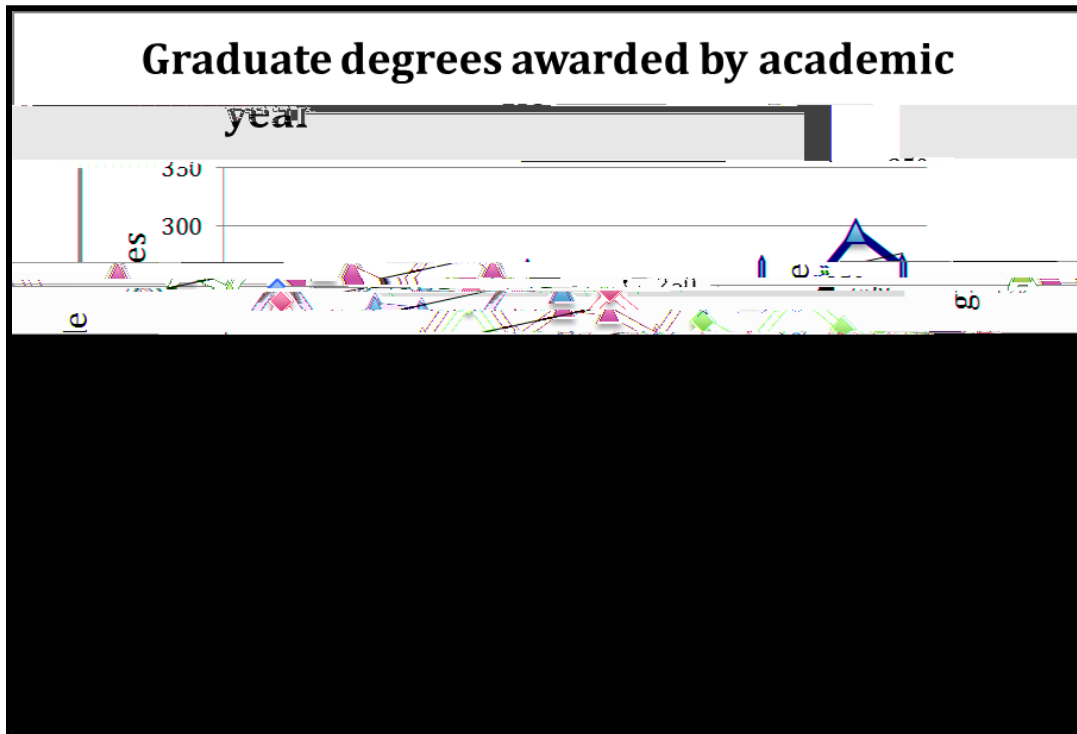
# Charge of Task Force

- How do we create an institutional environment and “culture” that will help rather than hinder the progress of interdisciplinary research and education?
  - Identify problems, barriers, and constraints
  - Highlight efforts at UAF
  - Presents models of successful interdisciplinary research and education at other institutions
  - Make recommendations for change at UAF

# Lots to build on!

- Long history of interdisciplinary research and education at UAF
- Several outstanding interdisciplinary education & research programs
- Top-level administration is supportive
- Growing student interest

# INDS Education / degree programs





# UAF examples

- Honors Program / special courses
- Indigenous Studies
- The Resilience and Adaptation Program
- SNRAS+SOM PhD in NR and Sustainability
- WERC, SNAP, BNZ LTER, IARC, CGC, EPSCoR, and. . .

# Examples

- University of Hawai`i Manoa's Interdisciplinary Cluster Hires Model at the
- Academy for Advanced *Interdisciplinary* Studies at Peking University
- "The New American University": Research University as Knowledge Enterprise at Arizona State University
- The Stockholm Resilience Centre

# Barriers and constraints

## *Institutional & Administrative Level*

- Limited institutional frameworks;
- Students with co-

# Barriers and constraints

## *Faculty Level*



# Barriers and constraints

## *Student Level*

- Limited funding for INDS graduate students;
- The privileging of disciplinary students over INDS graduate students by some for departmental funding support;
- Requirement that INDS degree applicants have fully formed research proposals before being accepted

# A start at recommendations...

- Shape “culture” to reward efforts
  - (Chancellor, Provost, administration)
- Review tenure and promotion process
  - (Provost, Deans, Faculty Senate)
- Provide more INDS student funding
  - (Deans, Dept Heads)
- Promote “cluster hires” and shared faculty workloads,
  - (Deans and Directors)
- Include faculty from both appointment areas (not just the academic home) on T&P committees
  - (Deans and faculty).
- Full thesis proposal requirement for acceptance to INDS degree program after student is accepted
  - (Dean of Grad Studies; curriculum committees).
- Establish a “Faculty of INDS Graduate Studies”
  - (Provost and Dean of Grad Studies)

# Where to?

- How do we move from barriers to action?
  - Massive reorganization of units?
- Who is responsible for making each recommendation happen?
  - A Chancellor's Task Force? A Town Hall?
- What is the timeline for specific tasks?
  - Some immediate; some long term