Wind IGERT Seminar – Welcome meeting and Value Focused Thinking
September 12, 2013
Erin Baker
Meeting Agenda

- Welcome to new IGERT students
- Plans for the year
- Talk: Value-focused thinking and offshore wind
New IGERT Fellows and Associates 2013
Seminar Series

Thursday, September 26, 2013 - 2:30pm
**Report Back on Offshore Wind IGERT Trip to Holland, May 2013**
Offshore Wind IGERT students and faculty

Thursday, October 10, 2013 - 2:30pm
**Wind Power Generation Electrical System Technologies and Challenges for Grid Integration**
Iqbal Husain. Electrical & Computer Engineering, North Carolina State University

Thursday, October 24, 2013 - 2:30pm
**Wind Power and Landscape: Global Concerns vs Local Costs**
Ana Isabel Afonso, Professora Auxiliar, University of Lisbon, Portugal

Thursday, November 7, 2013 - 2:30pm
**Offshore Wind IGERT student presentations**
Bob Darrow, "Wind Policy and Regulation"
Wing Goodale, "Cumulative Impacts of Offshore Wind Turbines"

Thursday, November 21, 2013 - 2:30pm
**Bioinspired Wind Farms**
John Dabiri, Professor of Aeronautics and Bioengineering, Cal Tech

Wednesday, December 4, 2013 - 2:30pm
**Offshore Wind IGERT student presentations**
Micah Brewer, "Socioeconomic Optimization of Offshore Wind"
Andrew Allyn, “Offshore Windfarms and Marine Ecosystems"
Mini field trip
Development of on-line wind engineering course
NEWS??
OFFSHORE WIND AND DECISION MAKING

Value-Focused Thinking
Decisions

• How are they relevant to you as researchers?
• Why are decisions hard?
What makes decisions hard?

Cheaper vs. Higher quality
The elements of a decision

Frame

Preferences, values

[Decision maker]

Alternatives

Information
The elements of a decision

Alternatives → information → Preferences, values

Outcomes
Example

Values
- Profits
- Biodiversity
- Viewshed

Alternatives
- No wind farm
- 10 MW farm in RI-MA wind energy area
- 100MW farm over horizon

Information
- What is the stream of profits from the 10MW farm?
- What are the biodiversity impacts of the 100MW farm?
Values: How can we decide which outcome is better? Example – impacts on wildlife

- Minimize impacts
- Minimize negative impacts
- Minimize negative impacts and maximize positive impacts
- Maximize population of a species
- Minimize deviation from status quo
- Maximize biodiversity
• Value-Focused Thinking by Ralph Keeney