

Minutes of the University of Wyoming Energy Resources Council
April 27, 2007

Council members present:

Mark Davies – General Manager, Rio Tinto Energy America
Ron Harper – CEO & General Manager, Basin Electric Power Coop, (Council Chairman)
Senator Charles Townsend
Paul Lang – President Western Operations, Arch Coal Inc.
Keith Rattie – Chairman, President & CEO, Questar Corporation
Tom Stroock – CEO, Alpha Development Corp; former US Ambassador
Rob Wallace – Manager, Government Relations, G.E. Energy
Ex officio, RIENR Director Harold Bergman

Council members absent:

Representative Tom Lockhart (Council Vice Chairman)
Bobby Shackouls – Chairman (retired), Burlington Resources Inc.
Ex officio, UW President Tom Buchanan

Welcome and Approval of the Agenda

Chairman Ron Harper called the meeting to order at 9:30. Paul Lang motioned and Mark Davies seconded that the agenda and minutes be accepted. The motion was passed unanimously. (Agenda-Appendix A) (Minutes 3/23/07-Appendix B)

Update on Director Search

Vice President for Academic Affairs Myron Allen encouraged members to continue to participate in the teleconference calls set up specifically for the members to speak with the candidates, and to call in for the discussion of all five candidates on May 1.

Update on Four Professorships, Academic Activities, and Research Centers

Members received a written update (Appendix C) on these, and no questions were posed.

Update on Financial Report

A more detailed format was distributed and accepted.

IHS News Energy on Demand

Tom Stroock posed the question of promoting the School of Energy Resources through a variety of media's, IHS being one. It was decided to wait for a permanent director to come on board to decide the best way to do this.

Future Meetings

May 25 is the next meeting in Laramie, Wyoming. The meeting was adjourned at 9:50 by a motion made by Keith Rattie and seconded by Paul Lang.

Respectfully Submitted,
Ron Harper, Chairman

Appendix A

Agenda – April 27, 2007 Energy Resource Council Meeting

- 1) Review of minutes from 3/23/07 and agenda for 4/27/07.
- 2) Status of Director Search.
- 3) Update on 4 professorship searches.
- 4) Update on academic activities.
- 5) Update on Research Centers.
- 6) Financial Report – Attachment
- 7) IHS Energy-News On Demand
- 8) Upcoming meetings.
 - May 25, 2007 – Meeting

Appendix B

**Minutes of the Combined Meeting of the University of Wyoming Energy Resources
Council and the Enhanced Oil Recovery Commission
March 23, 2007**

Council members present:

Mark Davies – General Manager, Rio Tinto Energy America
Ron Harper – CEO & General Manager, Basin Electric Power Coop, (Council Chairman)
Senator Charles Townsend
Paul Lang – President Western Operations, Arch Coal Inc.
Representative Tom Lockhart (Council Vice Chairman)
Keith Rattie – Chairman, President & CEO, Questar Corporation
Tom Stroock – CEO, Alpha Development Corp; former US Ambassador
Rob Wallace – Manager, Government Relations, G.E. Energy
Ex officio, RIENR Director Harold Bergman

Members Absent:

Bobby Shackouls – Chairman (retired), Burlington Resources Inc.
Ex officio, UW President Tom Buchanan

Welcome

Ron Harper, Chairman of the ERC welcomed everyone and had each person introduce themselves. The meeting began at approximately 12:50 pm.

Enhanced Oil Recovery

Jim Steidtmann gave a PowerPoint presentation of the Enhanced Oil Recovery Institute.

School of Energy Resources

Carol Frost, Interim Director, gave a PowerPoint presentation highlighting the recent activities of the School of Energy Resources.

The meeting ended at approximately 1:55 pm.

Respectfully submitted,

Ron Harper, Chairman, ERC

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Rob Wallace – Manager, Government Relations, G.E. Energy
Ex officio, RIENR Director Harold Bergman

Members Absent:

Bobby Shackouls – Chairman (retired), Burlington Resources Inc.
Ex officio, UW President Tom Buchanan

Welcome and Approval of the Agenda

Chairman Ron Harper called the meeting to order. Mark Davies motioned and Tom Lockhart seconded that the agenda and minutes be accepted. The motion was passed unanimously. (Agenda-Appendix A) (Minutes 2/23/07-Appendix B)

Update on Director Search and Four Professorships

Carol Frost gave an update during the joint morning meeting with the Trustees; there was no further discussion.

NCAR Update

A \$ 2,000,000 commitment was needed from available funds of the State or the University for to NCAR project. The university administration decided that the most the appropriate source would be the SER because during the ramp-up period the SER budget has more flexibility than other, more fiscally constrained units at UW. It is the expectation that SER will be fully funded with the next budget appropriation.

Update on Coal Conversion Center

Discussion arose as to how the coal conversion center could fit in with the clean coal technology objectives of HB 301. Frost stated that the center could provide UW faculty to respond to coal issues. Several issues arose from this discussion:

- UW coal faculty could raise matching funds from nonstate sources and qualify for some of the \$2,500,000 from HB 301 to fund the coal conversion center.
- The UWERC/Clean Coal Task Force and SER could coordinate an effort to get the word out about the clean coal efforts and the HB 301 funding opportunity.
- There could be infrastructure issues to be addressed by HB 301 research.
- A gap analysis could be done using some of the \$100,000 from HB 301 to focus efforts in optimizing the benefits of HB 301.
- Establishing direction and timelines for HB 301 are a priority.
- The HB task force should focus on Wyoming, which would also be advantageous to the nation.
- Bill Gern, UW VP of Research and Economic Development stated that UW has specific guidelines in working with industry that could be helpful with the coal conversion center and HB 301.
- Other UW research centers could also participate, such as the Wyoming Reclamation and Restoration Center, which was included as one of the SER research centers in the document distributed at the February meeting.
- Frost is meeting with faculty representing three of the research center groups under current organization and development, and will report on these at the April 27 meeting.

Update on Industry Survey

Frost stated this was a continually evolving process. It was determined that meeting with oil and gas industry, natural gas, and coal entities was an important goal in defining and addressing issues, along with developing an awareness to what the School of Energy Resources could mean to energy industries in the future. It was decided to put this on hold until the permanent director arrives.

Update on Fundraising

Ben Blalock gave an update on positive responses by industry to ongoing fundraising, and felt the new director would walk into a solid fundraising situation.

Tom Stroock asked if it was possible to receive more information on the financial report. More detail will be provided for future meetings.

Action Items

- Frost will provide a short presentation at the April 27 meeting on the three research centers under development this year.
- Dates and times for the on campus SER Director interviews will be sent to ERC members as soon as they are determined.

Future Meetings

The April 27 meeting is a teleconference meeting beginning at 9:00 MST.
The meeting adjourned at approximately 3:30 pm.

Respectfully submitted,

Ron Harper, Chairman

Appendix C

Update on SER professorship searches

Four searches are underway. Two offers have been extended, one to a coal technologies professor candidate in Chemical and Petroleum Engineering and one to a fluid flow in porous media candidate in Math. Two other searches are at the interview stage. Several candidates have already visited campus as part of the energy economics search, and candidates will be on campus starting April 26 to interview for the reservoir geophysics position in Geology and Geophysics.

Energy Summer Institute

Planning for the Energy Summer Institute is in full swing. Seventeen 9th graders and five high-school teachers have been accepted. Our attendees' hometowns include Buffalo, Casper, Cheyenne, Cody, Guernsey, Hanna, Lander, Laramie, Kemmerer, Rock River, Upton, and Worland. Three camp counselors have been hired and we will be hiring one more. Professor Paul Dellenback and Professor Scott Morton, both from the Department of Mechanical Engineering, will be teaching classes on energy conversion technologies and renewable wind energy. Extra-curricular activities being planned include a tour of the geological museum, a demonstration of Earthscope, attending a Laramie Colts baseball game, picnics, and the recreational trip to Winter Park, Colorado.

Update on Research Centers

Carol Frost and Andy Hansen held meetings with three groups of faculty on campus to discuss the development of projects sponsored by SER's Institute of Energy Research. These included a group of faculty working on sustainable coalbed methane production who will be part of the Coalbed Natural Gas Research Center, a group of faculty who will work on Wyoming Reclamation and Restoration projects, and a group of faculty doing work in fuel cells and photovoltaics who are part of the Renewable Energy Research Center.

Each of these groups was asked to define a research project that demonstrates their potential contributions to SER research. If the proposals are suitable, SER will provide modest start-up funds for these initial projects. The goal is to obtain high-quality scientific results that can be used to leverage future external funding for these research centers.