

**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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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 A

Agenda – March 23, 2007 ERC & EORC 404 Old Main 2:00 – 4:00

- 1) Introduction to Enhanced Oil Recovery, by Dr. Jim Steidtmann
- 2) Overview of recent School of Energy Resources activities, by Dr. Carol Frost

Agenda – March 23, 2007 Energy Resource Council Meeting 404 Old Main 2:00 – 4:00 pm.

- 1) Review of minutes from 2/23/07 and agenda for 3/23/07
- 2) Update on 4 professorship searches
- 3) Update on academic activities
 - Graduate Assistantships
- 4) Legislative Update
 - NCAR
- 5) Update on Coal Conversion Research Center
- 6) Update on industry survey—Focus Groups
- 7) Fundraising
- 8) Financial Report
- 9) Upcoming meetings
 - April 27, 2007 Meeting – Teleconference Meeting

Appendix B

Minutes of the University of Wyoming Energy Resources Council February 23, 2007

Council members present:

Ron Harper – CEO& General Manager, Basin Electric Power Coop, (Council Chairman)
Keith Rattie – Chairman, President & CEO, Questar Corporation
Bobby Shackouls – Chairman (retired), Burlington Resources Inc.
Tom Stroock – CEO, Alpha Development Corp; former US Ambassador
Rob Wallace – Manager, Government Relations, G.E. Energy
Ex officio, UW President Tom Buchanan
Ex officio, RIENR Director Harold Bergman

Council members absent:

Mark Davies – General Manager, Rio Tinto Energy America
Senator Charles Townsend
Paul Lang – President Western Operations, Arch Coal Inc
Representative Tom Lockhart (Council Vice Chairman)

Welcome and Approval of the Agenda

Chairman Ron Harper called the meeting to order. Tom Stroock motioned and Bobby Shackouls 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

Dr. Carol Frost gave an update stating nine people have been invited to campus for a first interview and eight will have been here by March 9, 2007. On March 23 a maximum of seven names will be asked to go public which will determine who will move on to the on campus interviews as the next phase.

UW President, Tom Buchanan, interjected that on March 23 when the ERC and BOT meet together, they will go into executive session, and the candidate information will be introduced, but not released to the public. A short list will be formed, and those candidates will be invited for on campus interviews. Council members and Trustees are invited to attend the interviews, but it is understood that their schedules may preclude their presence at all interviews. Buchanan assured the council that UW would do whatever they could for members to spend time with candidates through means like tele or video conferencing in order for them to be satisfied with candidates. It was concluded that the ERC would receive the dates of on campus interviews as soon as they become available, so they could make plans to be here if possible.

Update on hiring of four Distinguished Faculty

Frost stated these searches were ongoing with strong candidates applying, and two candidates for the coal conversion chair have already been to campus.

Update on Academic Activities

Dr. Andy Hansen stated that the high school summer institute was well under way due to the excellent work of Pam Henderson, and that they are in hopes of 16 students attending, having four high school teachers attending, and the possibility of four team camp leaders. Two UW faculty will also be involved. Some of the activities during this two week institute will include visiting Laramie River Station, a wind farm, and going to Winter Park.

Update on Outreach

Frost updated the council on the coal gasification workshop that WRI has put together which will be in Casper, Wyoming on February 28.

Update on development of Research Centers

Frost updated on the possibility of organizing SER research centers around particular energy research areas. She referred the council to a draft document circulated as an attachment to the agenda that described a number of proposed centers. These centers would be flexible and organic groups that would not necessarily be permanent. One of these centers would focus on coal conversion. Tom Stroock requested that the ERC make recommendations on these centers, so this will be an action item for the March 23 meeting.

Update on Legislative Session

Rick Miller gave an update on the session, focusing on HB0301, clean coal technology. Miller stated that if passed, a taskforce made up of the Energy Resource Council would review and evaluate methods to enhance research into clean coal technology. While the ERC is related to UW, they are a separate entity from the school in carrying out the oversight of this assignment. Thus, the ERC can send a public message that not just the university, but private industry has a vision with clean coal research.

Update on Fundraising

Ben Blalock gave an update, stating good relationships were being formed with ConocoPhillips and Anadarko. He included that with NCAR's decision to pair up with UW; major industry is excited to be talking about partnerships with UW.

Update on Industry Survey

Keith Rattie addressed an issue he had incurred from surveying oil and gas industry leaders of UW's credibility due to the closing of the Petroleum Engineering department ten years ago. Myron Allen addressed this issue by stating that at the present time the Petroleum Engineering department has added three new faculty in the last three years, and the program is now flourishing.

It was decided that Frost would work to develop a plan for holding focus groups in industry. The purpose of the focus group meetings is to inform industry constituents about what SER is accomplishing and to solicit input on how SER might help meet industry professional workforce and scientific and technological needs. It was decided this would be an action item for the March 23 meeting.

Financial Report

Chairman Harper questioned how the monies for the four distinguished faculty had been dispersed, and Allen explained the monies went to the colleges for hiring and start ups.

Action Items

- 1) Review of development of research centers.
- 2) Review of industry focus group plans.

Upcoming Meetings

Frost stated that information would be sent out for the March 23 meeting.

The meeting adjourned at approximately 10:20 am.

Respectfully submitted,

Ron Harper, Chairman