

**Minutes of the Joint Meeting of
UW Board of Trustees and the
UW Energy Resource Council
November 14, 2008**

Energy Resource Council Members Present:

Representative Tom Lockhart (Council Vice Chairman)
Senator Charles Townsend
Paul Lang – President Western Operations, Arch Coal Inc.
Rob Wallace – Manager, Government Relations, G.E. Energy
Ingrid Burke - Ex officio, Director, RIENR

Energy Resource Council Members Absent:

Ron Harper – CEO & General Manager, Basin Electric Power Coop, (Council Chairman)
Bobby Shackouls – Chairman, Burlington Resources Inc. (retired)
Tom Stroock - CEO, Alpha Development Corp; former US Ambassador
Keith Rattie – Chairman, President & CEO, Questar Corporation

UW Trustees Present:

Chuck Brown – UW Trustee President
Jim Neiman – UW Trustee Vice President
Warren Lauer – UW Trustee Secretary
Dave Bostrom – UW Trustee Treasurer
Dick Davis – UW Trustee
Betty Fear – UW Trustee
David Parmerlee – UW Trustee
Ann Rochelle – UW Trustee
Tom Spicer – UW Trustee
Tom Buchanan – Ex Officio
Kelsey Day Ex Officio

UW Trustees Absent:

Taylor Haynes – UW Trustee
Howard Willson – UW Trustee
James Trospen – UW Trustee
Governor Dave Freudenthal – Ex Officio
Jim McBride – Ex Officio

Welcome

Myron Allen, Provost & VP, Academic Affairs, welcomed the University Of Wyoming Board Of Trustees and the School of Energy Resources Energy Resource Council.

Energy Curriculum Proposals

Allen introduced Dean Robert Ettema of Engineering & Applied Sciences, who gave a presentation of the proposed Energy Systems Engineering degree program. (ESE)

Allen also introduced Director Mark Northam, School of Energy Resources, who introduced and welcomed Associate Director of Energy Outreach, Mary Byrnes. Northam gave a presentation on the proposed Energy Resource Science degree program.

Dave Bostrom asked if there was room for an international component with such a rigorous discipline in the programs. Ettema stated there were many options, and they were looking for international locations for possible three week courses.

Northam stated that there was a possibility to work with MIT to develop an energy curriculum for K-16 in public schools, preparing students for what they need for employment in an energy related field. Northam's assessment of these two degree programs is that they are not competitive, but diverse and complement each other. He would like to do some fine tuning, bring it back to the Board of Trustees for approval for this academic year.

Representative Tom Lockhart addressed the Board by expressing his appreciation to meet annually with them to accomplish tandem goals. He also expressed his gratitude for the Clean Coal Task Force's work, realizing the importance the impact they can have on the University of Wyoming, the state, and the nation.

The meeting was adjourned at approximately 8:40 a.m.

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 Bobby Shackouls – Chairman, Burlington Resources Inc. (retired)
 Tom Stroock - CEO, Alpha Development Corp; former US Ambassador
 Tom Buchanan - Ex officio, UW President

Meeting Attendees:

Mark Northam
 Rob Hurlless
 Cath Harris
 Pam Henderson
 Sarah Schulmeyer
 Bill Gern
 Myron Allen
 Mary Byrnes

Welcome and Approval of the Agenda and Minutes

Vice Chairman Tom Lockhart called the meeting to order at approximately 9:30 am. Chuck Townsend motioned and Paul Lang seconded that the September 5 minutes and the November 14 agenda be accepted. The motion was passed unanimously. (Minutes Appendix A) (Agenda – Appendix B)

Update on GE

Bill Gern gave an update on GE. The highlight was that GE Energy and the University of Wyoming have reached an agreement on a proposed development plan for the High Plains Gasification Advanced Technology Center.

Update on Strategy for Additional SER Faculty Positions

Northam gave an update on faculty positions:

- Ten out of twelve positions have been filled, and one is still underway.
- A RFP. has been issued to Deans requesting position descriptions for a possible eight more SER faculty positions for the next biennium. This will be on the agenda for the Deans retreat in January, and the outcome presented to the ERC at the March meeting. (Faculty Positions- Appendix C)
- A RFP. went out for GA funding from SER, and 51 proposals were received.
- Northam has requested from Jim Nielson the idea that Nielson's endowment given to SER be possibly used for non-traditional GA's. This endowment from Nielson is separate from the SER bi-annual budget given to the operation of the SER by the state.

- Northam conveyed two issues that occur at SER faculty meetings are creating Adjunct Professorships, and the endowment for current SER faculty.

Update on Matching Grant Funds, “Metrics for Success”

Northam stated the best measurement for success is the outside funding UW captures through matching grants. The topic of measuring the value of research will be on the agenda for Northam and Chairman Harper when they meet in January to plan an ERC strategy meeting for the future roll of ERC with SER.

Update on Financial Report

Cath Harris gave an update from the financial report with highlights of the first two years of SER, the future two years, along with the complexities of expenditures faced by SER with both state and federal funds. (Financial Report-Appendix D)

Burke raised the question of what fell under the category of “half time” Professor. Northam explained the intention was to provide monetary incentive to existing professors for energy related teaching and research. A good example is Gus Plumb, who is being considered to direct the launching of the Clean Coal Technology Research Center.

Lockhart questioned the large amounts for the first two years for recruiting and start-ups. Northam explained the high cost up start-up funds for senior level faculty, along with Lang’s confirmation of having visited this issue before and the Council being satisfied with these costs..

Update on Curriculum and Industry Survey

Northam expressed that the survey is behind schedule due to the length of time needed to obtain actual names and contact information for those whose input is necessary for the survey. Rattie agreed that his was the best approach to take. Northam stated the survey will cost about \$10,000.

ERC Role in Strategic Planning

Chairman Harper and Northam are meeting in January to organize a strategic planning meeting for the ERC to consider the next strategic phase of SER.

Rattie expressed an interest in consideration of the current state of politics with energy. Northam agreed that technology gaps, along with work force gaps should be given attention.

Other Business

- It was agreed that the request for additional SER faculty positions appeared to be a positive tool.
- A motion was made by Chuck Townsend and seconded by Rob Wallace that the ERC were confident about the ERS degree program, and support it being recommended to go forward to the Board of Trustees in January.
- Northam conveyed the idea of creating another SER position, which would meet a need in the UW Cooperative Extension Service. The Cooperative Extension Service provides learning opportunities to the people of the state of Wyoming. This position would be the “energy” liaison to the people in the state of Wyoming.
- Northam would like to expand SER’s “outreach” to include “inreach” by focusing efforts on campus to encourage and develop more interdisciplinary interaction.

Action Items

- SER will provide information pertaining to the below specific questions as they pertain to the Uranium Proposal: requested by Keith Rattie
 1. Technology gaps as they map to the energy resource base in Wyoming.
 2. Priorities for hiring faculty.
 3. Commercial and economic feasibility of addressing the gaps.
 4. SER provide a SWOT (Strengths, Weakness, Opportunities, and Threats) analysis on PRB coals vs. other coals, including SERs role in advancing PRB coals.
 5. SER provide a SWOT on the development of nuclear power, and the impact it could have on Wyoming uranium.
 6. SER evaluate the natural gas paradigm shift from scarcity to abundance based on new development of gas, (shale gas?) alternatives to use nuclear power, and possible scenarios for establishment of a carbon price.
- Mary Byrnes, Associate Energy Outreach Director will be compiling a monthly update for the ERC.
- Northam will provide a position description for the Cooperative Extension position for the March meeting.

Future Meetings

- March 20, 2009
- May 29, 2009
- August 28, 2009
- November 13, 2009

The ERC meeting adjourned at approximately 10:50 a.m.

Respectfully Submitted

Tom Lockhart, Vice-Chairman

Appendix A

Minutes of the UW Energy Resource Council September 5, 2008

Members present:

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

Members absent:

Bobby Shackouls – Chairman, Burlington Resources Inc. (retired)

Meeting Attendees:

Mark Northam
Rob Hurless
K J Reddy
Christopher Spooner
Cath Harris
Pam Henderson
Sarah Schulmeyer
Bill Gern
Myron Allen

Welcome and Approval of the Agenda and Minutes

Chairman Ron Harper called the meeting to order at 8:30 am. Keith Rattie motioned and Tom Lockhart seconded the May 23 minutes be accepted. Tom Lockhart made a motion to accept the agenda, and Paul Lang seconded it. The motion was passed unanimously. (Minutes Appendix A) (Agenda – Appendix B)

Update on Fundraising

Chris Spooner gave an update on fundraising highlighting funds for the Center. Fundraising – Appendix C)

Update on GE

Ron Harper called for the ERC to go into executive session due to proprietary information about the GE project.

Update on Faculty/Staff Hires

Northam gave an update on the faculty hires. Ten positions are confirmed as filled. (Appendix – D) Northam foresees the need for four to eight more faculty positions and this will be addressed with deans and proposed to legislature next year.

Chairman Harper requested a timeline for putting a plan together for the positions. It is listed below:

- Drafted strategy for ERC at November 14 meeting
- ERC approved drafted copy to Myron Allen by January 13, 2009 for Deans Retreat
- Final copy for ERC at March 20, 2009 meeting
- Final to UW President Buchanan by April 1, 2009

Harper requested the strategy plan for additional SER Faculty positions be an agenda item for the November 14 meeting. Keith Rattie pointed out the importance of being focused on positions that can teach a strong energy curriculum for a solid enrollment to be a priority.

Update on Wind Center

Professor Jonathan Naughton from Mechanical Engineering gave an update on the Wind Energy Center. (Appendix-E) Discussion on Wind Energy led to the following conclusions:

- There are difficulties with keeping up with manufacturing demands
- There is a deficiency in getting it to market and storage issues
- There is a need for more interaction with utility companies

The Council requested Naughton's contact information is sent to them.

Update on Annual Report

The 2008 Annual Report will be available on the UW SER website once it is in its final copy at www.uwyo.edu/ser. Referring people to the website was determined to be the best way to make others aware of what is occurring in SER.

Northam gave an update on the proposal for establishing a uranium research center within the School of Energy Resources set forth in the Fifty Ninth Legislature Budget Session which is due to the JMC by October 1, 2008. Two areas of focus are:

- An improved and cost effective way to recover uranium
- Focus on restoration and ground water issues

Update on Matching Grant Funds

Northam gave an update on matching grant funds. (MGF - Appendix F)

Chairman Harper asked if there was a way to measure the return for the funds granted. Northam stated it was still too early to tell, but one measurement would be to look at the research funding captured, and that proposals submitted have grown by 53 % over the first year. Average leverage of state funds is 3-to-1.

Update on Financial Report

An update on FY 2009 expenses YTD was covered. (Appendix G) Northam will provide an updated detailed FY09-10 budget.

A discussion arose about the difficulty of using federal (AML) funds. Senator Townsend stated that some tweaking needed to be done of how legislature issued both federal and states funds for SER to avoid some of these.

Update on Curriculum and Industry Survey

The ERS degree program is about to be submitted for approval and will be available at the November 14 ERC meeting for the ERC to discuss.

The ERC were enthusiastic about the industry survey which is about to go out surveying what type of classes and experience in graduating UW students energy industry leaders would like to hire. Discussion about whether the survey should be administered on-line or in hard copy arose. Keith Rattie brought up the idea that it would be helpful if the survey could be categorized by coal, gas, etc.

Strategic Direction

The ERC determined that they would like to meet for a half day to discuss how they can be more constructive and beneficial in helping to guide the SER in the next two years. The outcome is:

- Chairman Harper will work Mark Northam on setting a date and place for the meeting
- Possibly enlisting an outside facilitator to aid in the process

Other Business

Northam introduced several items:

- “Energy Innovation”: Dr. Lester’s speech from the National Governor’s Association meeting in Washington, D.C., and the need for a new national energy curriculum.
- NBC’s request for involvement from SER to contribute ideas for an energy segment on TWC

Future Meetings

The ERC will meet with the UW Board of Trustees for a morning session on November 14, 2008. The ERC agreed on the below meeting dates for 2009 in Laramie.

- March 20, 2009
- May 29, 2009
- August 28, 2009
- November 13, 2009

Action Items

- Northam will put together a drafted strategy for 4-8 more SER faculty positions to be presented to the ERC at the November 14, 2008 meeting.
- Jonathan Naughton’s contact information is sent to ERC.
- Northam will provide an updated two year budget for FY09 – FY10.
- Northam will provide ideas for “metrics for success” in measuring the MGF.
- Rob Hurless will provide the ERC with a copy of Dr. Lester’s speech, “Energy Innovation”.
- The updated 2009 ERC meeting calendar will be sent out.

A motion was made by Tom Lockhart to adjourn the ERC meeting at approximately 12:00 p.m. and Keith Rattie seconded it.

Respectfully Submitted

Ron Harper, Chairman

Appendix B

**Joint Meeting with UW Board of Trustees
November 14, 2008
Hilton Garden, UW Conference Center, Salon A & B
7:30 – 9:00 a.m.**

Working Breakfast with Board of Trustees.
Topic: Energy Curriculum Proposals

**Agenda
November 14, 2008 Energy Resource Council Meeting
SER Boardroom, 207 Bureau of Mines Bldg.
9:30 – 12:00**

- 1) Review of minutes from 9/5/08 and 11/14/08 agenda.
- 2) GE Update
- 3) Update on strategy for additional SER faculty positions
- 4) Update on Matching Grant Funds, “Metrics for Success”
- 5) Financial Report – Updated two year plan
- 6) Update on SER curriculum and industry survey
- 7) Discussion of ERC role in strategic planning
- 8) Other Business
- 9) Upcoming meetings
 - March 20, 2009 - Laramie

UNIVERSITY OF WYOMING

Appendix C

School of Energy Resources
Academics Office
205 Bureau of Mines Bldg.
Dept. 3012, 1000 E. University Ave., Laramie, WY 82071-2000
(307) 766-6879 • fax (307) 766-6701 • www.uwyo.edu/ser

June 10, 2009

To: College Deans

From: Mark Northam, Director
K. J. Reddy, Associate Director for Academics

Re: Proposals for New School of Energy Resources Faculty Positions

The Energy Resources Council endorsed the School of Energy Resources' proposal to request funding from the legislature for up to 8 additional faculty positions during the 2010 budget session. In order to prepare for that request, we are seeking proposals from the UW colleges for new SER faculty positions with the following criteria:

- The position must have a clear relationship to energy teaching and research.
- The position must fill a gap in UW's overall portfolio of energy expertise.
- The proposal must justify the fit and the need for this position from the perspective of departmental objectives.
- Proposals must be a maximum of 3 pages (11 point font).

Please share this information widely with interested departments in your college. Requests for positions will be prioritized by SER, discussed with the Energy Resources Council, and then with the academic deans prior to submission of a final recommendation to Academic Affairs.

Proposals will be accepted via e-mail to serpros@uwyo.edu until 5:00 pm on Friday, December 1, 2008. Please submit them in Microsoft Word or Adobe PDF format.

This is essentially the same request for proposals that went to selected department heads about a week ago. I apologize for not contacting the deans first with this information. Please note that the target date for proposals has been extended to December 1.

cc: Academic Affairs

Appendix D

School of Energy Resources

	FY2007	FY2008	FY 2009	FY2010	Totals
ACADEMICS - WYDEQ49811ACAD					\$ 7,023,666
Salaries					
Academics Director	\$ 98,322	\$ 83,791	\$ 151,152	\$ 157,198	
Office Associate			\$ 36,564	\$ 38,027	
Office support expenses		\$ 60,098			
Distinguished faculty positions					
Salaries			\$ 1,188,240	\$ 1,235,770	
Fringe			\$ 430,786	\$ 448,018	
Start up			\$ 1,455,865	\$ 575,632	
Renewable Resources Position				\$ 150,000	
Start up				\$ 250,000	
Remaining Unallocated Position				\$ 165,000	
Start up				\$ 500,000	
Recruiting	\$ 693,575	\$ 896,519	\$ 50,000	\$ 200,000	
Release Time (unfilled positions)	\$ -	\$ -	\$ 300,000	\$ -	
Total Distinguished faculty positions	\$ 693,575	\$ 896,519	\$ 1,805,865	\$ 1,840,632	\$ 3,646,497
Undergrad research fellowship stipends					
Undergrad research fellowship stipends	\$ -	\$ -		\$ 32,000	
Tuition & Fees				\$ 12,000	
Interdisciplinary graduate assistantship		\$ 276,856	\$ 264,640	\$ 519,168	
Fringe			\$ 3,898	\$ 11,837	
Tuition & Fees	\$ -	\$ -	\$ 63,852	\$ 116,563	
Total Stipends	\$ -	\$ 276,856	\$ 332,390	\$ 691,568	\$ 1,023,958
Visiting Professorships					
Salaries			\$ 200,000	\$ 416,000	
Fringe			\$ 70,000	\$ 145,600	
Travel and moving allowance	\$ -	\$ -	\$ 31,200	\$ 64,896	
Total Visiting Professorships	\$ -	\$ -	\$ 301,200	\$ 626,496	\$ 927,696
Distinguished Teaching Internships					
Salaries	\$ 51,065		\$ 80,000	\$ 166,400	
Fringe			\$ 28,000	\$ 58,240	
Travel and moving allowance	\$ -	\$ -	\$ 20,800	\$ 43,264	
Total Distinguished Teaching Internships	\$ 51,065	\$ -	\$ 128,800	\$ 267,904	\$ 396,704
Other Support					
Course Development	\$ -	\$ 694,764	\$ 130,000	\$ 130,000	\$ 260,000
Other			\$ 49,000		\$ 49,000
Summer Program for High School Students	\$ 60,579	\$ 87,605	\$ 71,360	\$ 71,611	\$ 142,971
Subtotal Academics	\$ 1,648,181	\$ 3,273,008	\$ 5,386,871	\$ 7,054,811	
				Unobligated Balance	\$ 476,840

School of Energy Resources

	FY2007	FY2008	FY 2009	FY2010	Totals
RESEARCH - WYDEQ49811RES					\$ 4,547,209
Salaries					
Half-time faculty appointments	\$ -	\$ -	\$ 100,000	\$ 156,000	
Summer research salary			\$ 66,666	\$ 99,999	
fringe			\$ 58,333	\$ 89,600	
Start up Assistance			\$ 75,000	\$ 50,000	
Graduate Research Assistants	\$ -	\$ -	\$ 41,600	\$ 43,264	
Total Salaries	\$ -	\$ -	\$ 341,599	\$ 438,863	\$ 780,462
Matching Grant Funds					
MGF	\$ 710,200	\$ 361,600	\$ 1,000,000	\$ 1,200,000	
			\$ -		\$ 2,200,000
Research Centers	\$ 309,500	\$ 375,904	\$ 750,000	\$ 750,000	\$ 1,500,000
Subtotal Research	\$ 1,019,700	\$ 737,504	\$ 2,433,198	\$ 2,827,726	
				Unobligated Balance	\$ 393,747
OUTREACH - WYDEQ49811OUTR					\$ 2,196,994
Salaries					
Outreach Director			\$ 96,000	\$ 99,840	
Editor				\$ 60,000	
fringe			\$ 28,800	\$ 47,952	
Release Time for faculty contributors			\$ 80,000	\$ 83,200	
Consulting Specialists			\$ 166,400	\$ 173,056	
General Office support			\$ 78,000	\$ 81,000	
Travel			\$ 20,800	\$ 21,632	
Contributions to others			\$ 145,000	\$ 145,000	
Publications			\$ 31,200	\$ 32,448	
Lectures			\$ 62,400	\$ 64,896	
Workshops*	\$ -	\$ 112,793	\$ 156,000	\$ 162,240	
Other - Energy Outreach Center	\$ 358,662	\$ -	\$ 35,000	\$ -	
Subtotal Outreach	\$ 358,662	\$ 112,793	\$ 774,800	\$ 763,472	
				Unobligated Balance	371,722
*Includes sponsorship of Energy Economic Summit, State Science Fair, Pipeline Conference, Jackson Hole Policy Institute and Strook Forum.					
ADMINISTRATION - WYDEQ49811ADMN					\$ 498,651
Salaries					
Director			\$ 201,408	\$ 209,464	
Staff Assistant			\$ 42,936	\$ 44,653	
Business Manager			\$ 67,200	\$ 69,888	
Fringe			\$ 93,464	\$ 97,202	
General Office support	\$ 567,329	\$ 532,215	\$ 234,000	\$ 243,360	
Subtotal Administration	\$ 567,329	\$ 532,215	\$ 639,008	\$ 664,568	
				Unobligated Balance	\$ 21,291
Total all divisions	\$ 3,593,872	\$ 4,655,520	\$ 9,233,877	\$ 11,310,577	\$ 1,263,600

School of Energy Resources

	FY2007	FY2008	FY 2009	FY2010	Totals
Miscellaneous Accounts					
Clean Coal					
2007 Funds					\$ 670,000
2008 Funds					\$ 1,127,880
UWCASHSER49252		Rollover funds			\$ 1,736,444