



11-1-1990

## November 1, 1990

University of North Dakota

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Minutes of the University Senate Meeting

November 1, 1990

1.

The November meeting of the University Senate was held at 4:05 p.m. on Thursday, November 1, 1990, in room 7, Gamble Hall. Robert Kweit presided.

2.

The following members of the Senate were present:

Clifford, Thomas	Gershman, Kathleen	Lindholm, Lynn M.
Akers, Thomas	Hamerlik, Gerald	Lindseth, Paul
Baltisberger, Richard	Hanhan, Sara	McElroy-Edwards, Jackie
Beiswenger, Lyle	Hanna, Todd	McKenzie, James
Bender, Myron	Henricksen, Mogens	Nagel, Kate
Bolonchuk, William	Hess, Carla Wulff	Naismith, Donald
Bostrom, Donald E.	Hoffarth, Al	Nielsen, Monty E.
Boyd, Robert	Hunter, Susan	Owens, Thomas C.
Clark, Alice T.	Irwin, Nathan	Parker, Melissa
Collay, Michelle	Jaeger, Audrey	Pynn, Ronald E.
Dawes, Kenneth	James, Edwin C.	Ramsey, Lynn
Dearden, Bruce	Johnson, A. William	Sanders, Dawn
DeMers, Judy L.	Karner, Frank	Sanborn, P./Lawrence G.
Eberhardt, Bruce	King, Lawrence	Schubert, George W.
Effertz, Maria	Knoll, Harvey R.	Shubert, Elliot
Elsinga, Lillian	Kweit, Mary	Tweton, D. Jerome
Erjavec, John	Kweit, Robert	Uherka, David J.
Frein, George H.	Langemo, Diane	Williams, John A.
Gabrynowicz, Joanne	Lawrence, W. Fred	Winrich, Lonny
Gard, Betty	Lee, Randy H.	Wyckoff, John W.

The following members of the Senate were absent:

Bostrom, A. Joy	Hill Richard	O'Kelly, Marcia
Caum, Brenda	Jacobsen, Bruce	Odegard, John
D'Andraia, Frank	Kuznia, Dave	Poolman, James
Davis, W. Jeremy	Markovich, Stephen	Purdy, Robert
Deal, John	Merrill, Lois J.	Tomasek, Henry J.
Fugleberg, Sara	O'Donnell, Sheryl	Vickrey, Barry
Harris, Mary	O'Kelly, Bernard	Zellers, Kurt
Henry, Gordon		

3.

The Chair made the following announcements: 1) Ronald Pynn has agreed to serve as Parliamentarian; 2) The Guidelines on Misconduct in Scholarly Activities policy which was considered by the Senate last year was to be reconsidered by an appropriate committee selected by the Senate Executive Committee and brought back to the Senate by the March meeting. This was not done and the policy is now being referred to the Faculty Research Committee with the request that the committee report back to the Senate in February. Anyone wishing input should send comments to the Faculty Research Committee. 3) Numerous requests for early graduation under the policy passed by the Senate last May have been received by the Senate Executive Committee. The Academic Policies Committee has been asked to tighten up the process and report at the December meeting. 4) The question of reducing the maximum student semester credit load was also sent to the Academic Policies Committee for consideration. 5) The Chair met with President Clifford and they agreed that since the Senate is the policy making body for the University, the Senate should appoint members to the two special committees created by the President and Vice-President on a) Recruitment, Reward and Retention and b) Restructuring and Reallocation. Mr. Kweit will ask the Committee on Committees to nominate faculty to be selected next month.

4.

The Chair asked if there were any corrections to the minutes of the October meeting. There being none, he declared the minutes approved as distributed.

5.

A question period was held and questions were asked about administrator salary distribution and the process used by deans to distribute faculty salary money. The Chair moved to the consent calendar.

6.

Randy Lee presented the annual report of the Faculty Rights Committee and moved that it be received and filed. Mr. Irwin seconded the motion. There being no objection, the Senate received the report.

7.

Mr. G. Schubert moved to receive the annual report of the Honorary Degrees Committee. Mr. Lee seconded the motion. There being no objection, the Senate received the report.

8.

Mr. Kweit presented the name of Tom Owens as the nominee from the Committee on Committees to serve on the Senate Executive Committee. He asked if there were further nominations from the floor. Mr. Johnson moved that nominations cease and that a unanimous ballot be cast for Mr. Owens. Ms. DeMers and Mr. Baltisberger seconded the motion which was voted upon and carried by a vote

of 58 for and 1 abstaining.

9.

Gene Mahalko, Chair of the Curriculum Committee, presented the recommendation for approval of a new program, Ph.D. with a major in Energy Engineering, and of the three courses associated with the program:

EnE 501 Energy, Resources and Policy 3 credits  
EnE 590 Special Topics in Energy Engineering 1-6 credits  
EnE 600 Doctoral Research 1-15 credits repeatable to 30

Discussion followed. Mr. Johnson moved 1) the University Senate approve, in principle only, the establishment of a Ph. D. program in Energy Engineering subject to modification of the existing proposal to sharpen the program focus, to unify the academic experience proposed, and to strengthen the post-master's requirements and offerings for the program. 2) The Senate approve the proposed new courses. 3) The Senate Chairman appoint a small committee to work with the School of Engineering and Mines to prepare the modifications which shall be reported to the Graduate Committee and the Curriculum Committee, and shall require the approval of the Senate Executive Committee. Mr. Winrich seconded the motion. Discussion followed.

Mr. Pynn moved to amend the motion to include a statement from the small committee on the allocation of resources necessary to implement the doctoral program. The motion to amend was seconded. Discussion continued. The motion to amend was voted upon and carried by a vote of 42 for, 17 against and 1 abstaining. Discussion on the original motion continued and the Chair stated that if the motion was approved, he has received the following suggestions as to the membership of the small committee: Mr. Erjavec, Mr. Knull, Mr. Johnson and Mr. Winrich. Mr. E. Shubert nominated Ms. Gabrynowicz to serve on the committee. Mr. Henrickson asked for an extra meeting of the Senate Executive Committee so that this item would not be delayed. A vote was taken on the amended motion and carried unanimously.

10.

Ms. Sanborn presented the following recommendation from the General Education Requirements Committee that the following criteria for general education courses be endorsed:

- 1) general education courses should be designed to focus on thinking, reading and communication skills;
- 2) they should have a substantial writing component;
- 3) they should put the students in an active posture in creating their own learning;
- 4) they should emphasize independent learning;
- 5) they should not be highly specialized -- i.e., they should either be

specifically interdisciplinary in nature or approach a given discipline in a reasonably broad manner;

6) they should have a student-faculty ratio that enables students to have individual faculty attention.

Mr. G. Schubert seconded the motion. Discussion followed. Mr. Schubert asked if the Senate would allow Daniel Sheridan of the General Education Requirements Committee to speak to the motion. There being no objection, Mr. Sheridan presented an explanation of the recommendation. Discussion continued. Mr. Uherka moved to table agenda items eight, nine, and ten until the next meeting. The motion was seconded, voted upon and carried by a vote of 35 for and 6 against.

11.

Mr. Dawes withdrew the recommended change in the Social Work undergraduate admission policy to first send it through the Curriculum Committee.

12.

Mr. Kweit adjourned the meeting at 5:30 p.m.

Monty Nielsen  
Secretary

## ANNUAL REPORT OF THE STANDING COMMITTEE ON FACULTY RIGHTS

The committee is required to exist by Board of Higher Education policy; its five members are elected, one a year to a five year term, by the University Council. Members must be tenured faculty. The members in the 1989-1990 academic year were:

Donald V. Poochigian (term expiring 1990)  
Randy H. Lee (term expiring 1991)  
Marcia L. O'Kelly (term expiring 1992)  
Ralph Kolstoe (term expiring 1993)  
Dean C. Engel (term expiring 1994)

This Fall, the Council elected Robert Kweit as the new member of the committee for a five year term, and elected L. Elliot Shubert to fill the unexpired term of Ralph Kolstoe, who retired from the University. The present membership therefore is:

Randy H. Lee (term expiring 1991)  
Marcia L. O'Kelly (term expiring 1992)  
L. Elliot Shubert (term expiring 1993)  
Dean C. Engel (term expiring 1994)  
Robert Kweit (term expiring 1995)

No matters were referred to the committee during the last Academic Year until May, at which time the members holding nine-month contracts began to be unavailable. One meeting was held during the noncontract period, at which the committee organized itself and heard positions of parties as to a jurisdictional issue; the committee did not reconvene to resolve that issue prior to the election of two new members, however, and must now reorganize and begin again.

In sum, the committee has held no formal hearings in the period of report, either under Section J of the Board of Higher Education's Regulations on Academic Freedom Tenure and Due Process or under Senate legislation providing for its jurisdiction.

This report has been prepared and submitted by the senior member of the not-yet-organized 1990-1991 committee, on its behalf but without its permission or review.

**UNIVERSITY OF NORTH DAKOTA  
Honorary Degrees Committee**

**REPORT**

The 1989-90 Honorary Degrees Committee has the following members:

<u>Member</u>	<u>Office</u>	<u>UND#</u>	<u>Home#</u>	<u>Box#</u>
Bette Olson (Nursing), Chair	Nsg-335	4535	772-5403	170
Randy Lee (Law School)	L-206	2961	775-0268	174
Ernest Norman (Social Work)	Gill-306B	2669	775-9438	135
Rodney Medalen (Accounting)	GH-220S	2165	772-3560	96
Stephen Markovich (Pol. Science)	GH-265J	3549	772-6219	179
Duncan Perry (Dean Grad. School)	T-416	2786	772-9139	172
Alice Clark (VPAA)	T-302	2165	772-4368	1

Linda Hurst placed a notice in the University Letter for four weeks (September 14 through October 9, 1989) asking for nominations for outstanding individuals for Honorary Degrees. The six nominees received by the committee included: Lowell R. Gillett (CTL), Irv Kupcinet (Alumni Association), Frank Wenstrom (Alumni Association), Bruce McArthur (Alumni Association), Robert Mautz (Accounting and Business Law), and Michael DeBakey (Medical School).

The Honorary Degrees Committee met three times. The criteria were discussed and clarified. Each nominee was discussed and the committee nominated Irv Kupcinet, Frank Wenstrom, Bruce McArthur, Robert Mautz, and Michael DeBakey for Honorary Degrees. Earl Strinden was thanked for his nominations on behalf of the Alumni Association and Foundation. Bette made an appointment with Dean Mary Harris to discuss the nomination of Lowell Gillett.

As departments must nominate candidates, the committee decided to ask the Communication Department to nominate Irv Kupcinet, the Political Science Department to nominate Frank Wenstrom, and Engineering to nominate Bruce McArthur. All five nominees were indorsed and nominated by respective departments and confidential recommendation forms were completed for each candidate. Bette presented these candidates at the February 1, 1990 University Senate Meeting. All candidates were approved by the University Senate and were presented to the State Board of Higher Education at their March 8, 1990 meeting by President Clifford.

3/12/90

## University Curriculum Committee

## New Program and New Courses Associated With The New Program

NEW PROGRAM

PhD with a Major in Energy Engineering

NEW COURSES

EnE 501 Energy, Resources and Policy 3 credits

EnE 590 Special Topics in Energy Engineering 1 - 6 credits

EnE 600 Doctoral Research 1 - 15 credits, repeatable to 30



## EXECUTIVE SUMMARY - PROPOSAL FOR PH.D. IN ENERGY ENGINEERING

### OVERVIEW

This document summarizes the rationale for the proposed Ph.D. in Energy Engineering and shows how the program will assist the University of North Dakota in reaching the goals that are articulated in the Strategic Plan for the '90s.

The School of Engineering and Mines has proposed offering this program to prepare graduates for careers as practicing engineers in the energy, environmental and resource industries, and as teachers in institutions of higher education.

### BACKGROUND

The United States once again is recognizing that energy self-sufficiency is a prerequisite for economic health. However, a strong measure of environmental concern has placed severe constraints on the choice of alternative energy sources. While people in all walks of life have to assume responsibility for conservation and stewardship of the environment, the engineering profession must assume a larger share of the responsibility for our future economic and environmental well-being. Thus, it is critical to secure a future stream of engineers who are educated to provide the technical leadership needed by the energy and environmental fields well into the 21st century.

Because of large coal deposits, North Dakota can contribute substantially to the economic welfare of the United States and the world. However, North Dakota's mineral resources cannot be used on a large scale before critical engineering and environmental problems have been addressed.

Faculty members in the School of Engineering and Mines and researchers in the Energy and Environmental Research Center are today focusing their attention on many of the problems associated with combustion of fossil fuels, direct energy conversion and remediation of air and water quality problems brought about by many sources including energy usage. The EERC has won world-wide acclaim for excellence in research and development; numerous enquiries about graduate programs in energy engineering have been received; therefore, it is entirely rational to offer a graduate program which parallels the Center's research program in large scale energy systems. Such a program can be offered at no additional cost to the University.

### THE PROGRAM

This program will provide students with academic course work at an advanced level in those engineering disciplines which focus on energy systems. Only three new courses need to be added to the curriculum. Existing courses in the present graduate programs are adequate for the preparatory work in energy engineering.

Since the Energy and Environmental Research Center is a part of the School of Engineering and Mines, this doctoral program will benefit from an environment which is now recognized internationally as an outstanding research center. The research budget in place at the EERC exceeds \$15,000,000; there is a growing interaction between faculty members associated with the academic programs in the School and the research scientists and engineers in the EERC. This interaction will be strengthened by the new Ph.D. program, resulting in a suitable environment for graduate education.

The infrastructure required to offer this program is in place. Therefore, the University can offer a first class doctoral program. The administrative cost of the program, a half-time salary for the program coordinator, will be taken from discretionary funds, presently generated by indirect cost recovery.

#### **JUSTIFICATION - STRATEGIC PLAN FOR THE 90'S**

The program will assist the University of North Dakota to achieve the goals of the Strategic Plan for the '90s because:

- (1) The Ph.D. in Energy Engineering is responsive to state, regional and national needs for a cadre of engineers, prepared for the critical problems associated with energy generation, conservation and environmental protection. (I.1.)
- (2) The Ph.D. will make better use of our existing resources. Our laboratories, library holdings and physical space can, without any expansion, adequately accommodate a Ph.D. program. (I.2.)
- (3) The Ph.D. will assist the School of Engineering and Mines in recruiting highly qualified faculty members at a time when it is becoming difficult to recruit and retain such engineering professionals. The program will also enhance the opportunities for and the retention of faculty already in the School. (II.1.)
- (4) Our ability to competitively recruit graduate students will be enhanced. (VI.2.)
- (5) The program will encourage excellence in teaching, research and service by providing greater opportunity for in-depth basic and applied research; Hence, the program will strengthen the teaching, research and service role of the School. (VII.)
- (6) The prominence and visibility of the proposed Ph.D. program will assist in heightening the awareness of the people of North Dakota and enable them to recognize, understand, and support the contributions of the University. (XI.1.)
- (7) The Ph.D. program will have a direct and beneficial impact on the economic future of North Dakota by assisting in the development of technology which ultimately will lead to an increased income for North Dakota. (XII.1.)

### 8.3 Library Materials

Engineering reference materials, books and journals of the university library are in part located in the Engineering Library in Harrington Hall. The Engineering Library holdings currently exceed 45,600 volumes. Access to current technical journals is also assured as this library currently subscribes to 366 technical journals. The Engineering Library also provides numerous services essential to the existing graduate programs in the School; such services include reference services. Database searches of the Comprehensive Engineering Index and other technical databases, including the National Technical Information Service can be done through the main library.

Chemistry, mathematics and physics are important supportive sciences for engineering students at all levels. Thus, other literature resources of relevance to the proposed program are available in the Chemistry Library in Abbott Hall and the Math/Physics Library located in Witmer Hall. These libraries support Ph.D programs in chemistry and physics. The Chemistry library currently subscribes to 143 periodicals while the Mathematics and Physics library, according to library data, receives 172 periodicals.

The Ph.D. program in Energy Engineering will in part focus on fossil fuels, geothermal energy and other energy resources, derived directly from the earth. The environmental effects of using these energy resources will also be a concern of students in the program. Therefore, existing library resources in the F.D. Holland Geology Library in Leonard Hall will be widely used in the program. The F. D. Holland, Jr. Geology Library currently supports doctoral research in the areas of energy resources and environmental studies, and it is fully available to students in the proposed Ph.D. program. The geology library subscribes to 714 technical journals. Of these, approximately 350 are pertinent to engineering with the remaining holdings being from the North Dakota Geological Survey.

The Energy and Environmental Research Center (EERC) maintains its own library of reference materials, books and journals, which are specific to the mission of the Center. These library resources are purchased using external funding generated by the Center. The Center library contains over 3500 volumes; current subscriptions include 92 technical journals. These materials are available to students in the Energy Engineering Ph.D. program as well as other graduate programs in the School of Engineering and Mines.

Although there may be some overlap between the five libraries, such overlap is judged to be minimal. In total, the library resources available to the proposed Ph.D. program are thought to exceed those available at most Ph.D. granting institutions in the engineering fields. It is the judgment of the School that the aforementioned five libraries, combined with the main campus library, have sufficient holdings of engineering and science reference materials to support doctoral level research.

The five existing departmental library budgets will continue to be used to build the library resources of the School of Engineering and Mines as needs occur in the future. The present masters level programs dictate such needs at this time. Hence, no additional fiscal resources will be required.

In the event that a journal or book is not available, the inter-library loan service at UND can be used to obtain the information. This essentially means that all literature sources are available to students and faculty.

Often technical information is several years old by the time it reaches print. Therefore, participation at technical conferences and symposia, where pre-prints and presentations are available, is an important adjunct to good library facilities. UND faculty, students and research engineers routinely participate in such scientific and technical interchanges. During the last fiscal year, personnel from the SEM and the EERC participated in 246 such technical or professional meetings.