



4-3-1986

April 3, 1986

University of North Dakota

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MINUTES OF THE UNIVERSITY SENATE MEETING

April 3, 1986

1.

The April meeting of the University Senate was held at 4:10 p.m. on Thursday, April 3, 1986, in room 7, Gamble Hall. Ed Chute presided.

2.

The following members of the Senate were present:

Akers, Thomas K.	Hampsten, Elizabeth	Oring, Kay
Askim, Mary	Hampsten, Richard	Oring, Lewis
Bender, Myron	Hisey, Philip	Poochigian, Donald
Berg, Carol	Johnson, A. William	Ramsett, David
Bostrom, A. Joy	Kannowski, Paul B.	Rylance, Daniel
Bostrom, Donald E.	Kinghorn, Norton D.	Sauter, Mary Kay
Chute, Edward J.	Knull, Harvey	Schubert, George
Crawford, Glinda	Kweit, Mary	Schwartz, Paul
Dando, William A.	Lee, Randy H.	Stoltz, Mark
Davis, Jeremy	Markovich, Stephen	Tomasek, Henry
DeMers, Judy	Nielsen, Monty	Tuttle, Richard
Fletcher, Alan	Norman, Ernest J.	Uherka, David J.
Frein, George	O'Donnell, Sheryl	Walsh, William
Frigard, Mark	O'Kelly, Bernard	Wosepka, Thomas E.
Geiger, Leslie	O'Kelly, Marcia	Wrenn, William J.
Gurule, Steven	Odegard, John	
Hamerlik, Gerald	Omdahl, Lloyd B.	

The following members of the Senate were absent:

Clifford, Thomas J.	Hill, Richard L.	Olson, Myrna
Beiswenger, Lyle	Hinsvark, Inez	Perrone, Vito
Blickensderfer, D.	Hoffarth, Al	Pynn, Ronald E.
Bodine, Dale	Hondl, Kurt	Rowe, Clair
Boyd, Robert	Jackson, Jon	Rowley, C. Stevenson
Clark, Alice	Jacobsen, Bruce	Smith, Brian
Dahl, Ivan	Johnson, Debbie	Smith, Johnny P.
Elsinga, Lillian	Johnson, Tom	Traynor, Paul
Glessner, David	Keel, Vernon	Trentadue, Jesse
Harrison, Jeff	Korbach, Robert	Warner, Edward
Henry, Gordon	Loendorf, Lawrence	Winger, Milton
Hess, Carla	McElroy-Edwards, J.	

3.

Mr. Chute announced that the Senate Executive Committee established the office of the Secretary of the Senate as the official repository for Special

Review Committee documents. He also reported that President Clifford expressed the University of North Dakota's concerns to the Board regarding the proposed sick leave policy, and it appears that he was successful in persuading the Board to continue their absence of policy.

4.

Mr. Walsh moved that the minutes of the March 6, 1986, meeting be approved. Mr. Wosepka seconded the motion which was voted upon and carried unanimously.

5.

Betty Gard, Chair of the Continuing Education Committee, presented the committee's annual report. Mr. Rylance moved that the report be received. Mr. Hisey seconded the motion which was voted upon and carried unanimously. (See attachment # 1.)

6.

Mr. Schwartz presented a recommendation from the Senate Executive Committee to change the method by which membership on Senate Committees is determined and moved approval. Ms. Bostrom seconded the motion. Mr. Schwartz explained that if the motion is approved, the report on the preferences of Senate members for committee assignments will be presented at the next meeting to be voted upon in a block. The motion was voted upon and carried unanimously. (See attachment # 2.)

7.

Ms. Bostrom presented the semi-annual report of the Committee on Committees and moved that the report be received. Mr. Norman seconded the motion which was voted upon and carried unanimously. (See attachment # 3.)

8.

Mr. Norman moved to receive the report of nominations for Senate committees from the Committee on Committees. Ms. Bostrom seconded the motion. (See attachment # 4.)

The Chair called for nominations from the floor for each committee. Ms. DeMers nominated Dwayne Ollerich to serve on the Curriculum Committee. Mr. O'Kelly called for a point of order. He asked if this position was for a faculty member and/or a dean. The Chair ruled, based on the Committee Manual, that the position is for a faculty member. Since there were no further nominations, the Chair declared that because of the approval of agenda item # 4, action on the committee report will be postponed until the next regular meeting.

9.

Mr. Schubert presented the annual report of the Intercollegiate Athletics Committee and moved that the report be received. Mr. Hisey seconded the motion. Discussion followed. The motion was voted upon and carried by a

vote of 48 for, 1 abstaining and 1 other. (See attachment # 5.)

10.

In the absence of Ms. Clark, Gene Kemper presented a proposal from the Center for Aerospace Sciences to convert the Division of Atmospheric Research to the Department of Atmospheric Sciences. Mr. Kemper explained that this item is being presented to the Senate for its information, review, and comment, following the procedure for the organization of a new department or division. The Chair asked the Senate if it had any questions or comments for Mr. Kemper. No comments were offered. (See attachment # 6.)

11.

Ms. Oring presented the Report of the Curriculum Committee and moved approval of the new courses and the new program, Master of Physical Therapy (M.P.T.). Mr. Johnson seconded the motion which was voted upon and carried unanimously. (See attachment # 7.)

12.

Mr. Lee moved adjournment. The motion was seconded, voted upon and carried unanimously.

Monty Nielsen
Secretary

OUTREACH PROGRAMS
DIVISION OF CONTINUING EDUCATION
BOX 8277 UNIVERSITY STATION
GRAND FORKS, NORTH DAKOTA 58202
(701) 777-2661

MEMORANDUM

TO: Members of the University Senate
FROM: Betty Gard, Chair
Continuing Education Committee
DATE: March 19, 1986
RE: Annual Report

During the 1985 calendar year the Senate Continuing Education Committee had twelve meetings. The committee members were as follows:

Spring, 1985

Donald Kohns, Business & Vocational Education, Chair
Herbert Boswau, Languages, Vice Chair
Robert Boyd, Continuing Education
Betty Gard, Chester Fritz Library
Don Lemon, Educational Administration
Brian Reynolds, Communication Disorders
Rachel Scott, Nursing

Fall, 1985

Betty Gard, Chester Fritz Library, Chair
Rachel Scott, Nursing, Vice Chair
Joanna Basuray, Nursing
Robert Boyd, Continuing Education
Donald Lemon, Educational Administration
Brian Reynolds, Communication Disorders
Barry Vickrey, Law

SUMMARY OF ACTIVITIES:

1. The majority of the spring semester was devoted to reports of a self-study effort undertaken by the Continuing Education Division. Seven sessions were scheduled during which Dean Boyd and the divisional directors defined departmental tasks, goals, and problems. (Sessions were scheduled as follows: an overview: UND Graduate Center, Bismarck; evening classes; extension; conferences and institutes; and correspondence study.) During the entire process, Continuing Education Committee members offered observations, reactions, and recommendations.

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University Senate
March 19, 1986

2. At the beginning of the fall session Dean Boyd and divisional directors reported to the Committee on the general progress on items identified by the self-study.
3. Robert Boyd presented the Annual Report for Continuing Education for fiscal year, 1985. The committee reviewed the report.
4. The following areas for potential study in 1986 were identified: marketing of continuing educational activities; the Division's Outreach Mission; providing the Division with help in planning, and exploration of applications of new technology to continuing education programs.

METHOD FOR DETERMINING MEMBERSHIP
ON SENATE COMMITTEES

(RECOMMENDATION OF THE SENATE EXECUTIVE COMMITTEE)

The process of conforming Senate procedures to the provisions of the Open Meetings laws regarding open and recorded voting will render the election of members to Senate committees a very cumbersome and lengthy process. Under the "show your hand and speak your vote" procedure now in effect, the Senate would have to have a separate vote on every candidate name reported by the Committee on Committees, plus additional separate votes on every person nominated from the floor of the Senate. When roll call voting is instituted, there will be the same number of separate votes, but each would have to be taken one senator at a time. The Executive Committee believes the shortest of these procedures would consume an hour or more, and that the Senate would prefer to avoid such a procedure. The Executive Committee recommends that the Senate adopt its recommendations as follows:

A. For 1986-87 and thereafter:

1. That the Committee on Committees continue to operate as it did this year and in the past, but that it do so one month earlier as to the Spring semester, reporting its nominees for the March rather than the April Senate meeting; the Committee Manual should be conformed accordingly, as necessary.
2. That the Senate, at its March meeting, make such additional nominations for committees, from the floor, as members present may wish to make, and that no further action be taken by the Senate on the matter at the March meeting.
3. That the Secretary of the Senate prepare a "Senator's Committee Preferences" form after the March meeting, the form reporting those nominated for each committee by the Committee on Committees and by the Senate from the floor. This form shall be sent to each Senator, who shall be invited to mark her or his preferences on the form and required to sign the form and return it to the Secretary by a date and time identified on the form. The Secretary shall compile from the returned, timely, executed forms the official ballot for Senate committees for use at the April meeting, that ballot to report only the number of candidates for each committee equal to the number of vacancies on that committee, according to the returns on preference forms.

4. That the Senate, at its April meeting, treat the official ballot, derived as described above, as a report to it from its Secretary. The Secretary shall move its adoption, and no second shall be required. Members present may present such motions to amend as they wish, on each of which a vote must be taken and recorded. If there are no motions to amend, or when those motions and any others have been dealt with, and should the Secretary's motion still be on the floor, the Senate will vote on the question of the ballot as a whole, and in one vote elect the membership of all of the separate committees. That vote must be taken and recorded as are other non-procedural votes under Senate procedures.
- B. For 1985-86 only: That the Senate proceed as above, except where the above reads "March," substitute "April," and where the above reads "April," substitute "May." [This means that Senate Committees will be without their new members until later in May, and will not be able to organize themselves as early this Spring as the Committee Manual expects; it also means that the further work of the Committee on Committees regarding non-Senate Committees might be delayed.]

Report of the Committee on Committees

The Committee on Committees reports to the University Senate twice during the academic year. Since the last report in October, 1985, the Committee on Committees has met twice. One objective was to fill vacancies on Senate committees: a vacancy on the General Education Committee was filled by D. Perry, Social Work; a vacancy on the ROTC committee was filled by D.T.Grow, Chemical Engineering; and a vacancy on the Compensation committee was filled by H. O'Keefe, School of Communication. Each person was selected from the list of applicants obtained in 1985 and in each case the selected person had listed the committee to which they were assigned as their number one priority.

Other work completed by the Committee on Committees included the preparation of the ballot for Senate committees for the April 1986 meeting. The process used was to request individuals to fill out a committee application form that was attached to the University Letter and then use that pool of applicants for the ballot.

One hundred and one persons completed application forms as compared with 102 in 1985. Seventy eight listed at least one of three choices as a Senate committee; the remainder listed Presidential, Vice Presidential and Student Senate

committees. The seventy eight applicants for Senate committees represented the following College distribution: 21 A&S; 14 Nsg; 12 HRD; 9 BPA; 5 CTL; 5 CAS; 4 Engr; 2 Law; 2 Med; 1 FA and 3 Admin/Library. The Committee on Committees utilized the distribution in creating the ballot. In some cases it was necessary to nominate persons for committees which were not one of their choices. Each of these persons was contacted and asked if they were willing to serve, if elected, before putting their name on the ballot.

Respectfully submitted,

Larry Loendorf

Marcia O'Kelly

Joy Bostrom

Ernie Norman

Ed Chute

March 19, 1986

APRIL 1986

NOMINATIONS FROM COMMITTEE ON COMMITTEES

FOR SENATE COMMITTEES

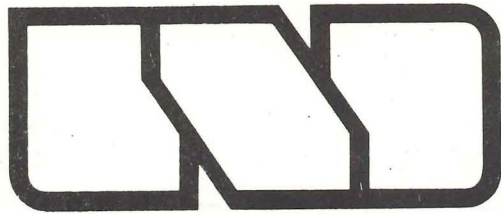
COMMITTEE	CONTINUING MEMBERS		TERM EXPIRES	NOMINEES		TERM EXPIRES
ACADEMIC POLICY	T. Akers	MED	(87)	MARK 2 R. Kweit	BPA	(88)
	M. Wakefield-Fisher	Nsg	(87)	Q. Brunson	CTL	(88)
				S. Jalal	A&S	(88)
						(88)
ADMINISTRATIVE PROCEDURES	D. Helgeson	Nsg	(87)	MARK 2 R. Pynn	BPA	(88)
	D. Bodine	Engr	(87)	J. Stewart	A&S	(88)
				C. Berg	Nsg	(88)
						(88)
BOARD OF PUBLICATIONS	Z. B. McGlashan	A&S	(87)	MARK 1 R. Tenenbaum	A&S	(88)
						(88)
COMPENSATION	H. O'Keefe	A&S	(87)	MARK 2 A. Jacoby	A&S	(89)
	A. Selbyg	A&S	(87)	D. Bostrom	BPA	(89)
	T. Robinson	A&S	(88)			(89)
	H. White	HRD	(88)			
CONTINUING EDUCATION	B. Gard	Lib	(87)	MARK 2 J. Bakken	A&S	(89)
	D. Lemon	CTL	(87)	S. Hunter	Nsg	(89)
	J. Basuray	Nsg	(88)	M. J. Schill	A&S	(89)
	B. Vickrey	Law	(88)	N. McCutchan	A&S	(89)
CURRICULUM	R. Kweit	BPA	(87)	MARK 3 (1 from each college) _____	Med	(89)
	N. Bengiamin	Engr	(87)	M. McFarlane	Nsg	(89)
	K. Oring	HRD	(87)	S. Hanhan	CTL	(89)
	D. DeRemer	CAS	(87)			(89)
	B. Byrne	FA	(88)			(89)
	E. Hampsten	A&S	(88)			

COMMITTEE	CONTINUING MEMBERS	TERM EXPIRES	NOMINEES	TERM EXPIRES	
FACULTY INSTRUCTIONAL DEVELOPMENT	F. Peterson	CTL (87)	MARK 2 M. Askim	HRD (89)	
	D. Poochigian	BPA (87)	R. Johnson	CAS (89)	
	J. A. Williams	A&S (88)	A. Hasan	Engr (89)	
	H. Slotnick	Med (88)	M. Russell	HRD (89)	
			F. Ceyhun	BPA (89)	
				(89)	
FACULTY RESEARCH	G. Iseminger	A&S (87)	MARK 2 S. Ahler	A&S (89)	
	S. Peterson	A&S (87)	D. Fuqua	HRD (89)	
	R. Seabloom	A&S (88)	D. Landry	CTL (89)	
	D. Bartak	A&S (88)	M. Kassner	BPA (89)	
			B. Rawat	Engr (89)	
		J. Stith	CAS (89)		
				(89)	
FUNDING OR ENROLLMENT EMERGENCY			MARK 1 for Faculty Advisory Budget Committee		
			E. Norman	HRD (89)	
			W. Bolonchuk	HRD (89)	
	FACULTY BUDGET MEMBERS	D. Bostrom	BPA (86)	W. Sheridan	A&S (89)
		L. Hill	FA (87)		(89)
	A. Selbyg	A&S (88)			
FACULTY ADVISORY BUDGET MEMBERS	R. Kauffman	BPA (87)			
	M. Kweit	BPA (88)			
GENERAL EDUCATION REQUIREMENTS	W. Gard	A&S (87)	MARK 3 D. Munski	A&S (89)	
	B. Uhlenberg	HRD (87)	J. Williams	A&S (89)	
	D. Helgeson	Nsg (87)	J. McElroy-Edwards	FA (89)	
	D. Poochigian	BPA (88)	D. Varvel	CAS (89)	
	W. Schwalm	A&S (88)	R. Kolstoe	A&S (89)	
	D. Perry	HRD (88)		(89)	
HONORARY DEGREES			MARK 2 (the highest vote getter will serve until 1991 - second highest to 1989)		
	J. Reid	Engr (87)	E. Hampsten	A&S	
	J. Laborde	Nsg (88)	R. Lee	Law	
	E. Norman	HRD (90)			

COMMITTEE	CONTINUING MEMBERS	TERM EXPIRES	NOMINEES	TERM EXPIRES
HONORS			MARK 2	
	K. Hulley	A&S (87)	M. Kweit	BPA (89)
	L. Lindholm	A&S (87)	J. Basuray	Nsg (89)
	M. Russell	HRD (87)	P. Warcup	HRD (89)
	J. Waller	Med (88)		(89)
	R. Beringer	A&S (88)		
INTERCOLLEGIATE ATHLETICS			MARK 3 (the 2 highest vote getters will serve until 1989 - the next highest until 1988)	
	R. Pynn	BPA (87)	M. Ahlen	Law
	R. Korbach	BPA (87)	E. Gade	HRD
	J. Bostrom	HRD (88)	J. Gillett	BPA
			T. Steen	HRD
LIBRARY			MARK 3	
	M. Anderegg	A&S (87)	R. Fischer	A&S (89)
	F. D. Holland	Engr (87)	J. Goodwin	HRD (89)
	W. Gard	A&S (87)	L. Winrich	CAS (89)
	D. Bostrom	BPA (88)	K. Tiongson	Nsg (89)
	V. Norman	Nsg (88)		(89)
	P. Fry	Law (88)		
ROTC			MARK 1	
	D. T. Grow	Engr (87)	J. Karns	BPA (89)
	R. Mower	A&S (88)	M. Thompson	Nsg (89)
			C. Schmidt	Nsg (89)
				(89)
STUDENT ACADEMIC STANDARDS			MARK 2	
	J. Euler	Nsg (87)	S. Lambeth	Nsg (89)
	R. Kolstoe	A&S (87)	S. Jerath	Engr (89)
	H. Boswau	A&S (88)	D. Wacker	BPA (89)
	H. Stinnet	Med (88)		(89)
STUDENT ACTIVITIES			MARK 1	
	H. Straus	A&S (87)	H. Holloway	A&S (89)
	D. Miller	FA (88)	B. Thompson	Nsg (89)
				(89)
STUDENT POLICY			MARK 2	
	D. Nelson	A&S (87)	J. Euler	Nsg (89)
	M. Grabe	A&S (87)	B. Lawton	Lib (89)
	P. Millar	HRD (88)	M. Wright	Nsg (89)
				(89)

COMMITTEE	CONTINUING MEMBERS	TERM EXPIRES	NOMINEES	TERM EXPIRES
SUMMER SESSIONS	J. Crawford	A&S (87)	MARK 2 D. Anderson	HRD (89) _____
	C. Hill	Nsg (87)	B. Gard	Lib (89) _____
	R. Hill	CTL (88)	L. Smiley	CTL (89) _____
	S. McIntyre	HRD (88)	B. Stewart	A&S (89) _____
				(89) _____
UNIVERSITY FACULTY DEVELOPMENT	D. Helgeson	Nsg (87)	MARK 2 S. Modisett	HRD (89) _____
	L. Hill	FA (87)	D. Perkins	Engr (89) _____
	G. Chute	Nsg (88)	T. Wigger	CAS (89) _____
	M. Langemo	BPA (88)		(89) _____

Signature of Senator _____



memorandum

TO: University Senate
 FROM: Ronald E. Pynn, Chair
 RE: Annual Report - Intercollegiate Athletics Committee
 1985-86

DATE: February 13, 1986

Committee Members

1984-85

William Wren (Biology)
 Luvern Eickhoff (IT), Chair
 Diane Langemo (Nursing)
 Paul Ray (Biochemistry)
 Ronald Pynn (Political Science)
 Robert Korbach (Economics)
 Brad Dolan (Student Member)
 Cindy Davies (Student Member)
 Kevin Kamrowski (Student Member)
 Gordon Caldis (Alumni Member)
 Mark Foss (Alumni Member)
 John Gasparini (Athletic Director)
 Lyle Beiswenger (VP, Finance)
 George Schubert (Institutional
 Representative)
 Jerry Kvidt (Athletic Business
 Manager), Secretary

1985-86

Diane Langemo (Nursing)
 Paul Ray (Biochemistry)
 Ronald Pynn (Political Science),
 Chair
 Robert Korbach (Economics)
 Audrey Glick (Communication
 Disorders)
 Joy Bostrom (Home Economics)
 Jeff Erickson (Student Member)
 Randy Hagen (Student Member)
 Brad Beehler (Student Member)
 Gordon Caldis (Alumni Member)
 Mark Foss (Alumni Member)
 John Gasparini (Athletic
 Director)
 Lyle Beiswenger (VP, Finance)
 George Schubert (Institutional
 Representative)
 Jerry Kvidt (Athletic Business
 Manager), Secretary

Meetings

The Intercollegiate Athletic Committee meets once every month during the academic year. Both last spring and once again this academic year, regular monthly meetings have been scheduled and held.

Activities

There are a number of regular business activities which occupy the committee from month to month. These include:

- a. Review and approval of minutes from the preceding meeting.
- b. Review and approval of the monthly financial report, showing income from ticket sales, scholarships, student fees, guarantees, building rental, concessions and other miscellaneous income and expenses for administration, concessions, promotions, recruiting, scholarships, and each intercollegiate sport.

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- c. Approval of athletic schedules for each intercollegiate sport.
- d. Approving recommendations for "letter winners" submitted by the coaching staff.
- e. Assist in the preparation of the next year's budget.
- f. Review of administrative and coaching actions for consistency with University and Athletic rules and procedures.
- g. Monitor NCAA and conference rules and actions to assure UND compliance.
- h. Recognition of athletic excellence where and when appropriate.

In addition this Fall the Intercollegiate Athletic Committee decided to:

- a. Drop field hockey as a varsity sport. The decision was made after a full year of review and with provision that revenues from field hockey be used for women's athletics in the future.

Concerns

The Intercollegiate Athletic Committee has several concerns which it has raised and which occupy the Committee's attention:

- a. Scheduling. The Athletic Committee is concerned about Thursday evening games and all away games which cause absences from classes. The issue is compounded by working within conference schedules and available dates to schedule non-conference opponents.
- b. Games During Final Exam Schedule. The committee seeks to minimize home games during final exams (no away games are allowed, except conference championships scheduled by the conference and NCAA). The number of contests permitted is kept consistent with other extracurricular activities on campus during the exam period.
- c. Early Final Exams. The Athletic Department and coaches express concern for their athletes over faculty requiring early exams or using reading and review day to give final examinations. This works a hardship on some student-athletes.
- d. Eligibility and Progress Toward Graduation. The Athletic Committee supports new NCAA rules requiring greater assurance of eligibility and progress toward graduation. These standards and rules will require more academic counseling and monitoring of academic progress.

February 28, 1986

Attachment # 6

MAR 5 1986
2856

Dr. Alice Clark
Vice President Academic Affairs
University of North Dakota

CENTER for AEROSPACE SCIENCES

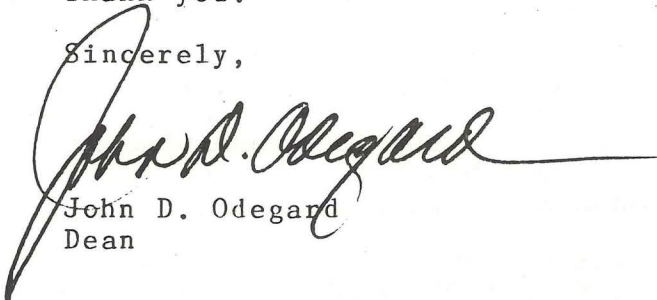
Dear Dr. Clark:

I am happy to forward to you the attached proposal from the faculty of the Division of Atmospheric Research and urge you to consider converting the Division to the Department of Atmospheric Research as soon as possible.

If we can be of assistance or answer any questions during this process, please let me know.

Thank you.

Sincerely,



John D. Odegard
Dean

JDO/pm
Encl.

OFFICE OF THE DEAN

(701) 777-2791

UNIVERSITY OF NORTH DAKOTA
BOX 8216 UNIVERSITY STATION
GRAND FORKS ND 58202 8216

February 28, 1986

John D. Odegard, Dean
Center for Aerospace Sciences
University of North Dakota
Grand Forks, ND


CENTER for AEROSPACE SCIENCES


Dean Odegard:

On behalf of the faculty of the Division of Atmospheric Research, we are presenting to you a proposal requesting the creation of a Department of Atmospheric Sciences within the Center for Aerospace Sciences of the University of North Dakota. It is our belief that the creation of such a Department is timely with the expanding meteorology enrollment, increasing atmospheric research and the establishment of the Center as a degree granting college.

We request you to review our proposal and to assist us in presenting our request to the proper University officials.

Sincerely,


Dr. Cedric A. Grainger, Director
CAS Division of Atmospheric Research


Prof. Leon F. Osborne, Coordinator
UND Meteorological Studies Program

er-860228
jodegard.ltr/121

(701)777-2791

UNIVERSITY OF NORTH DAKOTA
BOX 8216 UNIVERSITY STATION
GRAND FORKS ND 58202-8216

PROPOSAL FOR THE CREATION OF
THE DEPARTMENT OF ATMOSPHERIC SCIENCES

The faculty of the Department of Aviation, Division of Atmospheric Science Research, recommend to the University of North Dakota administration and faculty that a Department of Atmospheric Sciences be established within the Center for Aerospace Sciences. The faculty of the Department of Atmospheric Sciences would consist of the current Department of Aviation faculty comprising the Division of Atmospheric Science Research.

Creation of the Department of Atmospheric Sciences will significantly strengthen and benefit the existing instructional program and research activity in atmospheric sciences at UND. The existence of such a department will aid the current Meteorological Studies program and its students by signaling to prospective students and employers the high value placed upon studies of the atmospheric sciences by the University. The research areas will be benefited by providing a more acknowledged unit (a department) from which to submit research proposals and to interact with UND Departments and other universities involved in atmospheric research.

During the past decade the activities of the Division of Atmospheric Science Research (hereafter referred to as Atmospheric Sciences) have broadened to include those areas common to other departments at the University of North Dakota. These traits include involvement in academic instruction, basic research, and community service. Furthermore, the Atmospheric Sciences faculty desire to establish a graduate academic program in the atmospheric sciences within within the next four years. Such a program should fall within a Department of Atmospheric Sciences.

All CAS atmospheric scientists are currently employed as faculty members within the Department of Aviation. However, the atmospheric science programs have become totally independent of all other aviation instructional and research programs. This makes the current placement of atmospheric science programs within the Department of Aviation inappropriate and awkward. Furthermore, for the atmospheric sciences program to realize its full potential for growth and success, a department specifically designed to accommodate the needs of the instructional and research programs must be created.

The following information describes the development of Atmospheric Sciences within the Department of Aviation during the past decade. Each section outlines the commitment of the faculty to develop a strong and successful program in the atmospheric sciences at UND.

RESEARCH

Atmospheric research by scientists of CAS's Division of Atmospheric Sciences has brought prestige to the University for the past decade. A program initially designed to train weather modification pilots in 1974 has grown to include basic research in the physical processes of the atmosphere. Facilities include research aircraft, Doppler radar and computer systems. This continuous growth has been achieved by a team of dedicated scientists and administrators. With the assistance of funding from the U.S. Bureau of Reclamation (BUREC) we have been able to assemble a research group at UND capable of addressing many of the challenging issues involved in atmospheric research.

Through the BUREC Project Skywater, Atmospheric Sciences faculty, staff and instrumentation have been involved in weather modification research programs stretching across the western two-thirds of the United States. The High Plains Experiment (HIPLEX) led to involvement of UND with other scientists from universities in Wyoming, Colorado, Texas, Washington and South Dakota. This program studied the feasibility of summertime weather modification for states from Montana to Texas. UND was primarily responsible for all digital radar data processing for this program. As the experience and reputation of the atmospheric science research program at UND grew, this level of effort increased and Atmospheric Sciences acquired one of the most capable research aircraft to be found at a university. This aircraft and the accompanying scientific team have boosted the atmospheric research beyond the area of weather modification. Research now includes basic studies of thunderstorm turbulence and high altitude verification of instrumentation platforms which may someday provide better satellite observation systems.

This research has also teamed UND with the Federal Aviation Administration's Next Generation Radar program (NEXRAD). This program is an interagency federal program to replace the aging weather surveillance system across the United States with sophisticated Doppler radars. This has in turn led to a close working relationship with scientists at the Massachusetts Institute of Technology. Through MIT's Lincoln Laboratory, Atmospheric Sciences has had the opportunity to grow into an integral part of the development of the FAA NEXRAD radar system.

A National Aeronautics and Space Administration (NASA) sponsored program used Atmospheric Sciences' Cessna Citation II research jet and the NASA's U-2 research jet to study tops of thunderstorms. Using the in-cloud measurements from the UND aircraft, NASA is attempting to design a new generation of satellite instrumentation. Furthermore, this involvement is helping to solidify UND Atmospheric Sciences' position as the premier university research group.

The Bureau of Reclamation has fostered other research programs at UND. Because of capabilities in the analysis of digital radar studies in HIPLEX and other programs, UND has become well respected for its radar meteorology. This has resulted in the acquisition of a mobile digital research Doppler weather radar system by Atmospheric Sciences. This recent addition (summer of 1984) has placed UND in an enviable position of being one of only three American universities to possess its own Doppler radar system. This extremely sophisticated state-of-the-art research tool is providing further opportunities for scientists at UND to be at the vanguard of atmospheric research. This system and its scientists have already proven their worth in providing valuable information for the FAA NEXRAD program being conducted in western Tennessee during 1984 and 1985. This area of meteorology is expected to experience significant growth at UND over the coming years.

INSTRUCTION

Research with the governmental agencies of the BUREC, FAA, NOAA and NASA has brought more than scientific research to UND. The research has required the development of a strong faculty of meteorologists. The diversity of research has further insured that all major aspects of modern meteorology are encompassed by the specializations of the faculty. With this strong research background as a foundation it was inevitable that an instructional program in meteorology be created. By combining the existing courses offered by the Department of Geography with the expertise from Atmospheric Sciences, a joint program of Meteorological Studies was approved in 1981. This program has a coordinator who is chosen from the Atmospheric Sciences faculty and who oversees the function of the academic program.

The student interest in the Meteorological Studies program continues to grow. From an initial six majors in 1981 the program has now grown to 27 majors in 1986. The demography of the students shows they come from six different states and Canada. Of the 27 majors several have chosen UND over long established meteorology programs at the Universities of Wisconsin and Missouri. A common reason cited was the excellent reputation that has been developed by Atmospheric Sciences faculty in teaching and research.

The instruction for the Meteorological Studies program is conducted by Atmospheric Sciences faculty. These courses range from Synoptic Meteorology dealing with general atmospheric circulations to Cloud Physics which explores the composition and growth of clouds to Dynamic Meteorology in which the physical laws governing atmospheric motions are presented in a theoretical format. The student successfully completing an undergraduate degree in Meteorological Studies receives a Bachelor of Science degree from CAS. At this point the student is academically qualified to seek immediate employment as a professional meteorologist or to pursue

an advanced degree in atmospheric science. As a bonus to the student, the exposure to the various instrumentation systems which are part of the research program of Atmospheric Sciences provides both a significant advantage in seeking employment and a means by which to clearly define areas to pursue in seeking an advanced degree.

FACULTY

The accomplishments of the faculty of Atmospheric Sciences have been aided by the many advanced resources acquired over the years through federally funded research grants and contracts. However, no matter what the sophistication of the equipment, it takes talented scientists to analyze the data and report the findings. To this end Atmospheric Sciences has been able to assemble a qualified faculty of professional meteorologists who are dedicated to the pursuit of academic excellence.

The faculty of six includes four holders of the Ph.D and two holding M.S. degrees. All are professional members of the American Meteorological Society.

The individual specializations of the faculty members provide the diversification which enables Atmospheric Sciences to pursue all major areas of meteorology. This ranges from the experimental areas of cloud microphysics and radar meteorology to the more theoretical areas of synoptic and dynamic meteorology.

Because of this wide range of specialization in meteorology, the faculty members of Atmospheric Sciences serve as the core faculty of the Meteorological Studies program. All six of the six scientists serve as teaching faculty in the program with one of the faculty members currently serving as coordinator of the Meteorological Studies program.

FACILITIES

As mentioned earlier, Atmospheric Sciences has acquired an impressive inventory of sophisticated research instrumentation ranging from Doppler radar to an instrumented jet aircraft for high altitude cloud microphysics. This equipment supports research programs and serves as instructional aids in laboratory work associated with the academic program. These facilities place the Atmospheric Sciences academic programs at UND in a favorable position compared to facilities of other universities.

STUDENT INVOLVEMENT

The faculty of Atmospheric Sciences have established, as part of the Center for Aerospace Sciences' five year plan, the goal of developing a position of national excellence in atmospheric research at UND. To insure that student opportunities will always be a part of our goal, we have successfully included our students in ongoing research activities. Sixteen meteorology majors have been or are currently employed in research related activities within Atmospheric Sciences. This constitutes 50% of the total majors in Meteorological Studies program since the beginning of the program in 1981.

The research programs allow students to broaden their perspectives on career goals in the atmospheric sciences at the undergraduate level. This assists the student in preparing for a graduate education and it has benefited the Meteorological Studies program by attracting new students to UND.

The Atmospheric Science faculty also sponsor activities meant to assist students in non-research areas. In the past two years Atmospheric Sciences has sponsored student weather broadcasts in cooperation with KFJM radio. Utilizing our real-time weather resources, students have successfully prepared and produced short weather broadcasts. This is of important benefit to those students who are preparing for careers in weather forecasting.

SERVICE

The faculty of Atmospheric Sciences holds true to the University values of teaching, research and service. The teaching and research activities of its faculty have been widely visible, and have brought significant recognition to UND. However, the service activities of the faculty have also been very important to the University and to the community. Our faculty are often in demand to speak before university and civic groups. We have served extensively on committees in the Center for Aerospace Sciences and on University wide committees.

Atmospheric Sciences faculty are active supporters of the Lake Agassiz Chapter of American Meteorological Society. The Lake Agassiz Chapter membership is made up of professional meteorologists in the eastern half of North Dakota and western half of Minnesota. For the past five years the Chapter Chairman position has been held by a member of the Atmospheric Sciences faculty. All faculty of Atmospheric Sciences are included on the active roll of the Chapter. Through this Chapter our faculty have participated in numerous civic activities. Of particular note is the involvement in science fairs across North Dakota and western Minnesota on a yearly basis.

The faculty of Atmospheric Sciences have also committed themselves towards making Grand Forks and the vicinity a safer area in times of severe summer and winter storms. The Severe Weather Analysis Center of Atmospheric Science works intimately with the Grand Forks Emergency Management Team and with the UND Police Department and Safety Office to insure that timely and accurate information pertaining to possible severe weather is available. This facility is supported entirely through the volunteer efforts of the faculty of Atmospheric Sciences. This service makes use of the weather forecasting and monitoring systems within the Atmospheric Sciences research program. The success achieved by this program has resulted in the adoption by the Grand Forks Air Force Base of Atmospheric Sciences' technique of severe weather monitoring. Furthermore, this activity has promoted the ideals of cooperation and civic pride between the University and the surrounding communities.

Concluding statement

This document, in the judgement of the faculty of Atmospheric Sciences, presents a compelling rationale for the creation of a Department. Our interest in making such a request is rooted in our desire to better serve the University, Center for Aerospace Sciences, and our present and future students. Inherent in our request is our commitment continuously to strive toward higher levels of excellence in all that we do.

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New Courses Approved
by the University Curriculum Committee

Biol	433L	Aquatic Ecology Laboratory	1 cr.
O T	495	Integration of Occupational Therapy Theory	2

New Programs Approved

New Program Master of Physical Therapy (M.P.T.)

A. New courses associated with new program:

P T	423	Neuroscience Study for Physical Therapy	3
P T	525	Techniques IV: Clinical Evaluation	3
P T	526	Techniques V: Joint Mobilization/Soft Tissue Treatment	2
P T	549	Advanced Applied Anatomy and Clinical Kinesiology	2
P T	552	Clinic II: Clinical Practice	7 - 14
P T	561	Seminar: Physical Therapy	1 - 4
P T	570	Patient Education Techniques for Physical Therapy	2
P T	572	Teaching Experience in Physical Therapy	1 - 3
P T	582	Intrumentation for Physical Therapy	2
P T	590	Directed Studies/Clinical Concepts in Physical Therapy	1 - 12

B. Description of Program

Specifically, the curriculum in Physical Therapy at UND is designed to help the P.T. student meet the following broad objectives, with emphasis on rural practice:

- 1) Display competence in technical clinical skills.
- 2) Plan, initiate, coordinate, and evaluate treatment programs designed to meet the individual needs of the patient.
- 3) Develop effective and efficient communication.
- 4) Develop the ability to administrate and to supervise technical aids and assistants.
- 5) Develop an awareness of the importance of the involvement of Physical Therapy in community health systems.
- 6) Develop an appreciation of the scientific method as it applies to treatment problems and clinical research.
- 7) Perceive the value of continuing education and involvement in professional improvement.