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SENATE STATE AFFAIRS COMMITTEE

BILL NUMBER SB 250

SPONSOR Governor

BILL TITLE Confidentiality of research conducted
by the University

DATE REFERRED 3-31-89

HEARING SCHEDULED 4-10-89

FISCAL NOTE PREPARED ✓

SPONSOR CONTACTED Wendy

INTERESTED PARTIES CONTACTED

Suzi Tryck Univ
yes Wendy Redman, Univ

OTHER

UPDATE; Will now be on Monday, April 30 calendar.

F.Y.I

SB 250, An Act relating to the confidentiality of research conducted by the University of Alaska.

Recommendation on concurrence: YES

Summary: HCS for CS SB 250 (Jud) would exempt research in progress at the University from the state's open records law. It would allow information owned by a researcher to be kept confidential while a research project is underway. The house version, though totally rewritten by Peter Goll, does not change the intent of the bill but does add termination language: "until publicly released, copyrighted or patented or until the research is terminated"

Changes made in Senate State Affairs are included in the house version.

Wendy says "YES".

MESSAGE TO THE SENATE

HOUSE

April 28, 1990

MR. PRESIDENT:

The House has passed:

CS FOR SENATE BILL NO. 250 (State Affairs)
"An Act relating to the confidentiality of
research conducted by the University of Alaska."

with the following amendment:

HOUSE CS FOR CS FOR SENATE BILL NO. 250 (Judiciary)
(same title)

and it is transmitted for consideration.

Zero Fiscal Notes

Concun 2

Copies to:

Sen. Kelly

Sen. Ledy

Sen. Styrud

Sen. Parnishot

Israel Chasen

CHIEF CLERK OF THE HOUSE

Original sponsor(s): Rules/Governor

1 IN THE SENATE BY THE JUDICIARY COMMITTEE
2 HOUSE CS FOR CS FOR SENATE BILL NO. 250 (Judiciary)
3 IN THE LEGISLATURE OF THE STATE OF ALASKA
4 SIXTEENTH LEGISLATURE - SECOND SESSION
5 A BILL
6 For an Act entitled: "An Act relating to the confidentiality of research
7 conducted by the University of Alaska."
8 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:
9 * Section 1. AS 14.40 is amended by adding a new section to read:
10 Sec. 14.40.453. CONFIDENTIALITY OF RESEARCH. The public records
11 inspection requirements of AS 09.25.110 - 09.25.121 do not apply to
12 writings or records that consist of intellectual property or proprie-
13 tary information received, generated, learned, or discovered during
14 research conducted by the University of Alaska or its agents or em-
15 ployees until publically released, copyrighted, or patented, or until
16 the research is terminated, except that the university shall make
17 available the title and a description of all research projects, the
18 name of the researcher, and the amount and source of funding provided
19 for each project.

- All language changed - intent is the same.
- Added: termination language.
- The change you made in Senate State Affairs (title of research project) is included in this version.
- Wendy Redmond has signed off on this version.

Original sponsor: Rules/Governor

1 IN THE SENATE BY THE STATE AFFAIRS COMMITTEE
2 CS FOR SENATE BILL NO. 250 (State Affairs)
3 IN THE LEGISLATURE OF THE STATE OF ALASKA
4 SIXTEENTH LEGISLATURE - FIRST SESSION
5 A BILL

6 For an Act entitled: "An Act relating to the confidentiality of research
7 conducted by the University of Alaska."

8 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

9 * Section 1. AS 14.40 is amended by adding a new section to read:

10 Sec. 14.40.453. CONFIDENTIALITY OF RESEARCH. A person or entity
11 engaged in research for the university is exempt from the public
12 records inspection requirements of AS 09.25.110 - 09.25.125 and the
13 public meetings requirements of AS 44.62.310 while the research is in
14 progress. However, the identity of the person or entity financing the
15 research, ^{and} person or entity performing the research, and the title of
16 the research project is public information. Records developed as a
17 result of research conducted by the university may be kept confiden-
18 tial if the university seeks the protection of the intellectual prop-
19 erty set out in the records under applicable federal law or if con-
20 fidentiality of the records or of the subject of the research is a
21 condition of the research grant or contract imposed by the entity or
22 person financing the research.

Technical
change
rec'd
by OMB

Wendy Redmond
requested

?502.TXT
4/10/89

SB 250 CONFIDENTIALITY OF RESEARCH CONDUCTED BY UNIVERSITY

TO TESTIFY

WENDY REDMAN, UNIVERSITY

F.Y.I.

WENDY SAYS THIS IS A BIG UNIVERSITY PRIORITY. REMEMBER THEIR RESEARCHERS RECEIVE PRIMARILY NON-STATE FUNDS WHICH WENDY CALLS "PORTABLE" -- IT'S THE INDIVIDUAL RESEARCHERS THAT ATTRACT THE FUNDS, NOT THE UNIVERSITY, AND IF THE RESEARCHERS DON'T LIKE THE CONDITIONS AT THE UNIVERSITY THEY'LL TAKE THEIR MONEY AND GO ELSEWHERE.

SB 250 IS NOT THE RESULT OF ANY SPECIFIC PROBLEMS. WHEN UNIVERSITY HAS BEEN ASKED TO RELEASE ONGOING RESEARCH (MOST RECENTLY INFO. ON FOOD IRRADIATION) THEY'VE REFUSED, AND NOBODY HAS PRESSED THEM. UNIVERSITY IS CONCERNED THAT IF SOMEBODY DOES PRESS THEM, THEY'D HAVE TO RELEASE THE RESEARCH.

WENDY SAYS ALASKA IS ONE OF THE FEW STATES THAT DOESN'T PROVIDE THIS PROTECTION. SHE'S TO BRING SAMPLES OF OTHER STATES' LAWS TO THE HEARINGS.

BECAUSE OF A CONCERN O.M.B. HAD OVER THE PUBLIC'S RIGHT TO KNOW WHAT RESEARCH THE UNIVERSITY IS INVOLVED IN, LINES 14-15 STATE THAT THE IDENTITY OF THE RESEARCHER AND THE FUNDER OF THE RESEARCH ARE PUBLIC INFORMATION. IT DOESN'T STATE THAT THE SUBJECT BEING RESEARCHED IS ALSO PUBLIC INFORMATION -- SHOULD IT?

ANY CONFLICT WITH FREEDOM OF INFORMATION ACT?

SENATE COMMITTEE REPORT

FIRST COMMITTEE OF REFERRAL

Date of 5-DAY NOTICE 4-6-89
IN ACCORDANCE WITH UNIFORM RULE 23

FURTHER

**FISCAL NOTE(S) MUST BE ATTACHED
IN ACCORDANCE WITH AS 24.08.035

DATE TURNED INTO OFFICE 4-11-89

3/31/89
Mr. President:

STATE AFFAIRS

Committee considered SB 250

confidentiality of research conducted by the University of Alaska

and recommended:

replace with CS SB 250 (ST AFF) same title
[] attached amendment(s) and [] new title

[] _____ letter of intent adopted

[] do pass

[] do not pass

[] no recommendation

individual recommendations

[] further referral to _____

FISCAL NOTE(S) attached [] zero
[] appropriation no FN attached

[] fiscal impact
 Gov. FN introduced w/ bill

MEMBERS SIGNING DO PASS

OTHER RECOMMENDATIONS

Jan Fuchs
Tim Kelly

Al Adams - No Rec

[Signature]

Chair: signature and recommendation

[] Committee backup attached

Alaska State Legislature

Sen. Pat Pourchot, Chairman

Sen. Jan Falks, Vice Chairman
Sen. Al Adams
Sen. Tim Kelly
Sen. Rick Uehling



P.O. Box V
State Capitol
Juneau, Alaska 99811

907-465-3712

Senate State Affairs Committee

MEMORANDUM

TO: State Affairs Committee Members
FROM: Senator Pat Pourchot, Chairman
RE: April 10 Committee Meeting
DATE: April 8, 1989

On Monday, April 10 at 1:30 p.m. in the Beltz Room the Senate State Affairs Committee will receive a briefing from Donna Willard, Chairman of the Alaska State Officers' Compensation Commission, on the Commission's 1989 report.

The Commission, established in 1986, is charged with reviewing and recommending the salaries of legislative, judicial and executive officers in Alaska. The Commission consists of seven members including one representative of labor, one representative of a non-partisan voter organization, one business executive, and one person with experience in public administration.

Copies of the Commission's report were distributed to members directly by the Commission. A brief summary of their recommendations is attached.

SB 192, An Act relating to legislators' long term per diem

SB 192 would limit eligibility for long term per diem during the interim to days spent attending meetings of a legislative committee or subcommittee. Current statute allows long term per diem to be collected whenever the legislator is engaged in "legislative business".

Included in the packet is an amendment proposed by the bill sponsor which would allow both short term and long term per diem to be collected whenever the legislator is on legislative business away from his or her home town. This would be akin to a day of pay with travel expenses.

Also included in the packet are two proposals under consideration by the Legislative Council that would revise the current policy

Committee Memo
April 10, 1989
Page 2

on long term per diem. Both would limit eligibility for interim per diem to days spent attending meetings for a legislative or public purpose, or days in which at least four hours were spent on legislative or constituent business.

SB 250, An Act relating to the confidentiality of research conducted by the University of Alaska

SB 250 would exempt research in progress at the University from the state's open records law. This would allow information owned by a researcher to be kept confidential while a research project is underway. In addition, the University would be authorized to keep confidential under certain circumstances records developed as a result of research.

Sandra

BY THE RULES COMMITTEE BY
REQUEST OF THE GOVERNOR

Staff

1 IN THE SENATE

2 SENATE BILL NO. 250

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 SIXTEENTH LEGISLATURE - FIRST SESSION

5 A BILL

6 For an Act entitled: "An Act relating to the confidentiality of research
7 conducted by the University of Alaska."

8 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

9 * Section 1. AS 14.40 is amended by adding a new section to read:

10 Sec. 14.40.453. CONFIDENTIALITY OF RESEARCH. A person or entity
11 engaged in research for the university is exempt from the requirements
12 of AS 09.25.110 -- 09.25.125 (inspection of public records) and
13 AS 44.62.310 (Open Meetings Act) while the research is in progress.

14 However, the identity of the person or entity financing the research
15 *added by OMB* [and person or entity performing the research] *title* is public information. *the topic of the research project*

16 Records developed as a result of research conducted by the university
17 may be kept confidential if the university seeks the protection of the
18 intellectual property set out in the records under applicable federal
19 law or if confidentiality of the records or of the subject of the
20 research is a condition of the research grant or contract imposed by
21 the entity or person financing the research.

STATE OF ALASKA
OFFICE OF THE GOVERNOR
JUNEAU

March 31, 1989

The Honorable Tim Kelly
President of the Senate
Alaska State Legislature
P.O. Box V
Juneau, AK 99811

Dear Mr. President:

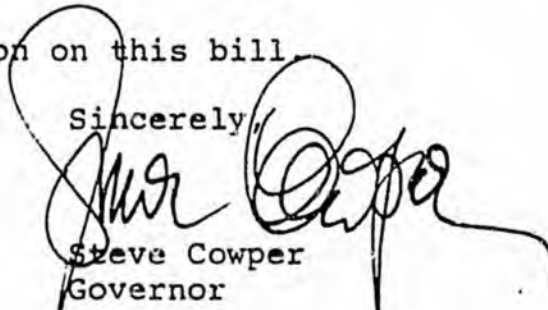
Under the authority of art. III, sec. 18, of the Alaska Constitution, I am transmitting a bill relating to the confidentiality of research conducted by the University of Alaska. This bill would prevent valuable processes or procedures used in research from being taken from their inventors or the state.

Persons who engage in research often develop procedures or techniques that have substantial commercial value. This information usually is set out in written form that qualifies as a public record. A researcher might use the procedure or technique as a tool in performing a research project. However, some qualified researchers might not actively seek research grants from the university because they fear that the information used during the research by the researcher will be disclosed to competitors through a public records request and disclosure.

Under this bill, research in progress is exempted from the open records law (AS 09.25.110 -- 09.25.125) and the open meetings law (AS 44.62.310). Under this provision, information owned by a researcher could be protected by being made confidential while a research project is underway. The university may also protect other valuable information developed through university-sponsored research pending the perfection of a federal copyright or patent. The purpose of this bill is to provide formality to existing practices of the university. It is felt that this formality will protect the university and its faculty while at the same time providing the environment to encourage research in the state university system.

I urge your favorable action on this bill.

Sincerely,


Steve Cowper
Governor

FISCAL NOTE

250

REQUEST:

Revision Date: _____
 Title: "An Act Relating to Records
 Developed or Used During Research for
 the University of Alaska."
 Sponsor: Rules Committee
 Requester: Governor

Agency Affected: University of Alaska
 BRU: UAF Organized Research,
 UAA organized Research, UAS
 Components: _____

EXPENDITURES/REVENUES: (Thousands of Dollars)

OPERATING	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94
PERSONAL SERVICES						
TRAVEL						
CONTRACTUAL						
SUPPLIES						
EQUIPMENT						
LAND & STRUCTURES						
GRANTS, CLAIMS						
MISCELLANEOUS						
TOTAL OPERATING	-0-	-0-	-0-	-0-	-0-	-0-

CAPITAL						
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REVENUE	-0-	-0-	-0-	-0-	-0-	-0-
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FUNDING: (Thousands of Dollars)

GENERAL FUND						
FEDERAL FUNDS						
OTHER						
TOTAL	-0-	-0-	-0-	-0-	-0-	-0-

POSITIONS:

FULL-TIME						
PART-TIME						
TEMPORARY						

ANALYSIS : (Attach a separate page if necessary)

Prepared by: Marsha Hubbard
 Division: Director, Statewide Budget

Phone: 474-7593
 Date: 2/21/89

Approved by Commissioner: Vice President Brian Rogers
 Agency: University of Alaska

Date: 2/21/89

- Distribution (by preparer):
- Legislative Finance
 - Legislative Sponsor
 - Requestor
 - Office of Management and Budget
 - Impacted Agency(ies)

Sec. 09.25.090. Objections to tender. The person to whom a tender is made shall at the time specify any objection the person may have to the money, instrument, or property, or the person waives it. If the objection is to the amount of money, the terms of the instrument, or the amount or kind of property, the person shall specify the amount, terms, or kind which the person requires, or is precluded from objecting later. This section shall not be construed to modify or change in any manner corresponding provisions of the Uniform Commercial Code (AS 45.01 — 45.09). (§ 3.20 ch 101 SLA 1962)

NOTES TO DECISIONS

It is not necessary to tender cash. constitute a proper tender. Ward v. Ward v. Miller, 13 Alaska 752 (1952). Miller, 13 Alaska 752 (1952).
And a check, unobjected to, would

Sec. 09.25.100. Disposition of tax information. Information in the possession of the Department of Revenue which discloses the particulars of the business or affairs of a taxpayer or other person is not a matter of public record, except for purposes of investigation and law enforcement. The information shall be kept confidential except when its production is required in an official investigation or court proceeding. These restrictions do not prohibit the publication of statistics presented in a manner that prevents the identification of particular reports and items, or prohibit the publication of tax lists showing the names of taxpayers who are delinquent and relevant information which may assist in the collection of delinquent taxes. (§ 3.21 ch 101 SLA 1962)

Collateral references. — Validity, construction, and effect of state laws requiring state officials to protect confidentiality of income tax returns and information, 1 ALR4th 959.

Sec. 09.25.110. Inspection and copies of public records. Unless specifically provided otherwise the books, records, papers, files, accounts, writings, and transactions of all agencies and departments are public records and are open to inspection by the public under reasonable rules during regular office hours. The public officer having the custody of public records shall give on request and payment of costs a certified copy of the public record. (§ 3.22 ch 101 SLA 1962)

Cross references. For proof of public records, see Evid. R. 1005; for management and preservation of public records, see AS 40.21.

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for that offense. This section establishes the following minimum amounts for the described categories of traffic offenses:

- (1) Vehicle registration violations, \$20.
- (2) Equipment defects, \$20.
- (3) Violation of a specific speed limit imposed under law or of a posted speed limit, based on number of miles per hour in excess of speed limit as follows:
 - (a) 0 to 10 miles per hour in excess of speed limit, \$20.
 - (b) 11 to 20 miles per hour in excess of speed limit, \$50.
 - (c) Over 20 miles per hour in excess of speed limit, \$100.
- (4) Speed racing, \$300.
- (5) Passing violations, \$25.
- (6) Pedestrian violations, \$5.
- (7) Bicycle violations, \$15.
- (8) Dealer or wrecker license violations, \$300.
- (9) License plate violations, \$150.
- (10) Truck license violations and prorate violations, \$50.
- (11) Failure to obtain Public Utility Commission permit, \$50.
- (12) Violations of laws on open liquor containers in vehicles, \$50.
- (13) Violations of laws relating to yielding or stopping for school busses or worker transport busses, \$100.
- (14) Careless driving, \$100.
- (15) Violation of winter parking permit requirements, \$10.
- (16) Failure to have driver license in possession, \$5.
- (17) Operating without driver license, \$100.
- (18) Misuse, failure to surrender or false application for driver license, \$150.
- (19) False name or identification to police officer, \$150.
- (20) Reckless driving, \$300.
- (21)(a) Infraction driving with suspended or revoked driver license, \$300.
- (b) Misdemeanor driving with suspended or revoked driver license, \$500.
- (c) Felony driving with suspended or revoked driver license, \$1,000.
- (22) Failure to perform duties of driver or witness, \$300.
- (23) Driving under the influence of intoxicants, \$300.
- (24) Attempting to elude police officer, \$300.
- (25) Overload violations other than ORS 818.040 and 818.340 based on weight in excess of allowable weight as follows:
 - (a) Up to 1,000 pounds over allowable weight, \$2.
 - (b) More than 1,000 pounds but not more than 2,000 pounds over allowable weight, \$15.
 - (c) More than 2,000 pounds but not more than 3,000 pounds over allowable weight, one cent per pound for each pound of excess weight.

(d) More than 3,000 pounds but not more than 5,000 pounds over allowable weight, two cents per pound for each pound of excess weight.

(e) More than 5,000 pounds over allowable weight, seven cents per pound for each pound of excess weight.

(26) Overload violation under ORS 818.230, \$100 plus 10 cents per pound for each pound of excess weight.

(27) Overload violations under ORS 818.040, based on weight in excess of allowable weight as follows:

(a) Up to 1,000 pounds over allowable weight, \$50.

(b) More than 1,000 pounds but not more than 2,000 pounds over allowable weight, six cents per pound for each pound of excess weight.

(c) More than 2,000 pounds but not more than 5,000 pounds over allowable weight, eight cents per pound for each pound of excess weight.

(d) More than 5,000 pounds over allowable weight, 10 cents per pound for each pound of excess weight.

(28) Failure or refusal to stop for and submit to measurement or weighing, \$350.

(29) Parking in a disabled parking space in violation of ORS 811.616, \$25.

(30) Violations not otherwise provided for in this section, as follows:

(a) \$25 if the violation is not a contributing factor to an accident.

(b) \$50 if the violation is a contributing factor to an accident.

SECTION 23. ORS 809.200 is repealed.

Approved by the Governor July 16, 1987

Filed in the office of Secretary of State July 20, 1987

CHAPTER 731

AN ACT

HB 3224

Relating to classified research; amending ORS 192.000 and 351.870.

Be It Enacted by the People of the State of Oregon:

SECTION 1. ORS 351.870 is amended to read:

351.870. (1) The Legislative Assembly finds and declares that basic research is fundamental to the continuation and expansion of applied research and is thus a necessary ingredient in economic growth. The Legislative Assembly further finds that basic research is itself an important activity which should be promoted.

(2) It is the policy of this state that basic research is an appropriate and necessary activity of our public universities. Further, the State of Oregon has an obligation with other states and the Federal Government to encourage and finance basic research if the state and nation are to be active participants in a future which will require ever increasing levels of knowledge and understanding.

(3) The Legislative Assembly acknowledges that a characteristic of basic research is that its defined result

can be guaranteed and asserts that only through scholarly investigation can knowledge be advanced to be later developed and applied.

(4) The Legislative Assembly believes that moneys for basic research should be regularly appropriated and that such moneys should be used for support of qualified investigators and funding of research projects.

(5) The Legislative Assembly intends that in implementing the policy on basic research or any other research policy, the State Board of Higher Education, in keeping with the principle of academic freedom, shall insure open and free inquiry and publication in all institutions under its jurisdiction.

SECTION 2. ORS 192.500 is amended to read:

192.500. (1) The following public records are exempt from disclosure under ORS 192.410 to 192.500 unless the public interest requires disclosure in the particular instance:

(a) Records of a public body pertaining to litigation to which the public body is a party if the complaint has been filed, or if the complaint has not been filed, if the public body shows that such litigation is reasonably likely to occur. This exemption does not apply to litigation which has been concluded, and nothing in this paragraph shall limit any right or opportunity granted by discovery or deposition statutes to a party to litigation or potential litigation;

(b) Trade secrets. "Trade secrets," as used in this section, may include, but are not limited to, any formula, plan, pattern, process, tool, mechanism, compound, procedure, production data, or compilation of information which is not patented, which is known only to certain individuals within a commercial concern who are using it to fabricate, produce, or compound an article of trade or a service or to locate minerals or other substances, having commercial value, and which gives its user an opportunity to obtain a business advantage over competitors who do not know or use it;

(c) Investigatory information compiled for criminal law purposes, except that the record of an arrest or the report of a crime shall not be confidential unless and only so long as there is a clear need in a particular case to delay disclosure in the course of a specific investigation. Nothing in this paragraph shall limit any right constitutionally guaranteed, or granted by statute, to disclosure or discovery in criminal cases. For purposes of this paragraph, the record of an arrest or the report of a crime includes, but is not limited to:

(A) The arrested person's name, age, residence, employment, marital status and similar biographical information;

(B) The offense with which the arrested person is charged;

(C) The conditions of release pursuant to ORS 135.230 to 135.290;

(D) The identity of and biographical information concerning both complaining party and victim;

(E) The identity of the investigating and arresting agency and the length of the investigation;

(F) The circumstances of arrest, including time, place, resistance, pursuit and weapons used; and

(G) Such information as may be necessary to enlist public assistance in apprehending fugitives from justice;

(d) Test questions, scoring keys, and other examination data used to administer a licensing examination, examination for employment, or academic examination before the examination is given and if the examination is to be used again;

(e) Information consisting of production records, sale or purchase records or catch records, or similar business records of a private concern or enterprise, required by law to be submitted to or inspected by a governmental body to allow it to determine fees or assessments payable or to establish production quotas, and the amounts of such fees or assessments payable or paid, to the extent that such information is in a form which would permit identification of the individual concern or enterprise. This exemption does not include records submitted by long term care facilities as defined in ORS 442.015 to the state for purposes of reimbursement of expenses or determining fees for patient care. Nothing in this paragraph shall limit the use which can be made of such information for regulatory purposes or its admissibility in any enforcement proceeding;

(f) Information relating to the appraisal of real estate prior to its acquisition;

(g) The names and signatures of employees who sign authorization cards or petitions for the purpose of requesting representation or decertification elections;

(h) Investigatory information relating to any complaint filed under ORS 659.040 or 659.045, until such time as the complaint is resolved under ORS 659.050, or a final administrative determination is made under ORS 659.060;

(i) Investigatory information relating to any complaint or charge filed under ORS 243.676 and 663.180;

(j) The circulation records of a public library showing use of specific library materials by named persons;

(k) Records, reports and other information received or compiled by the director under ORS 697.732;

(l.) Information concerning the location of archaeological sites or objects as those terms are defined in ORS 358.006, except if the governing body of an Indian tribe requests the information and the need for the information is related to that Indian tribe's cultural or religious activities. This exemption does not include information relating to a site that is all or part of an existing, commonly known and publicized tourist facility or attraction; [and]

(m) A personnel discipline action, or materials or documents supporting that action; and []

(n) Writings prepared by or under the direction of faculty of public educational institutions, in connection with research, until publicly released, copyrighted or patented.

(2) The following public records are exempt from disclosure under ORS 192.410 to 192.500:

(a) Communications within a public body or between public bodies of an advisory nature to the extent that they cover other than purely factual materials and are preliminary to any final agency determination of policy or action. This exemption shall not apply unless the public body shows that in the particular instance the public interest in encouraging frank communication between officials and employees of public bodies clearly outweighs the public interest in disclosure;

(b) Information of a personal nature such as but not limited to that kept in a personal, medical or similar file, if the public disclosure thereof would constitute an unreasonable invasion of privacy, unless the public interest by clear and convincing evidence requires disclosure in the particular instance. The party seeking disclosure shall have the burden of showing that public disclosure would not constitute an unreasonable invasion of privacy;

(c) Information submitted to a public body in confidence and not otherwise required by law to be submitted, where such information should reasonably be considered confidential, the public body has obliged itself in good faith not to disclose the information, and when the public interest would suffer by the disclosure;

(d) Information or records of the Corrections Division, including the State Board of Parole, to the extent that disclosure thereof would interfere with the rehabilitation of a person in custody of the division or substantially prejudice or prevent the carrying out of the functions of the division, if the public interest in confidentiality clearly outweighs the public interest in disclosure;

(e) Records, reports and other information received or compiled by the Supervisor of the Savings and Loan, Credit Union and Consumer Finance Section in the administration of ORS chapters 723 and 725 and the Supervisor of the Banking Section in the administration of ORS chapter 726, not otherwise required by law to be made public, to the extent that the interests of lending institutions, their officers, employees and customers in preserving the confidentiality of such information outweighs the public interest in disclosure;

(f) Reports made to or filed with the court under ORS 137.077 or 137.530;

(g) Any public records or information the disclosure of which is prohibited by federal law or regulations;

(h) Public records or information the disclosure of which is prohibited or restricted or otherwise made confidential or privileged under ORS 1.440, 7.211, 7.215, 9.545, 40.225 to 40.295, 41.675, 56.100, 57.850, 135.155, 146.780, 147.115, 173.230, 179.495, 181.540, 251.145, 308.290, 308.410, 314.806, 314.840, 336.105, 341.200, 342.850,

344.600, 346.165, 346.167, 351.065, 351.070, 410.150, 410.690, 411.320, 418.135, 418.770, 419.567, 441.113, 441.671, 469.090, 478.090, 656.702, 657.655, 671.550, 673.415, 673.710, 677.425, 678.126, 679.280, 684.023, 684.100, 706.720, 706.730, 722.419, 731.264, 731.312, 734.650, 734.830, 744.017, 756.076, 760.140, 761.421, 767.644, 802.220, 807.710 or ORS chapter 432;

(i) Public records or information described in this section, furnished by the public body originally compiling, preparing or receiving them to any other public officer or public body in connection with performance of the duties of the recipient, if the considerations originally giving rise to the confidential or exempt nature of the public records or information remain applicable;

(j) Records of the Energy Facility Siting Council concerning the review or approval of security programs pursuant to ORS 468.530 (3);

(k) Employee and retiree address, telephone number and other nonfinancial membership records maintained by the Public Employees' Retirement System pursuant to ORS 237.001 to 237.320;

(L) Records submitted by private persons or businesses to the State Treasurer or the Oregon Investment Council relating to proposed acquisition, exchange or liquidation of public investments under ORS chapter 293 may be treated as exempt from disclosure when and only to the extent that disclosure of such records reasonably may be expected to substantially limit the ability of the Oregon Investment Council to effectively compete or negotiate for, solicit or conclude such transactions. Records which relate to concluded transactions are not subject to this exemption;

(m) The monthly reports prepared and submitted under ORS 293.761 and 293.766 concerning the Public Employees' Retirement Fund and the Industrial Accident Fund may be uniformly treated as exempt from disclosure for a period of up to 90 days after the end of the calendar quarter; and

(n) Reports of abandoned property filed by the holders of such property pursuant to ORS 98.352, until such time as the Director of the Division of State Lands has provided public notice of the abandoned property as required by ORS 98.356 and the property has been delivered to the director pursuant to ORS 98.362.

(3) If any public record contains material which is not exempt under subsection (1) or (2) of this section, as well as material which is exempt from disclosure, the public body shall separate the exempt and nonexempt material and make the nonexempt material available for examination.

Approved by the Governor July 16, 1987

Filed in the office of Secretary of State July 20, 1987



STATE OF ALASKA
OFFICE OF THE GOVERNOR
JUNEAU

March 31, 1989

The Honorable Tim Kelly
President of the Senate
Alaska State Legislature
P.O. Box V
Juneau, AK 99811

Dear Mr. President:

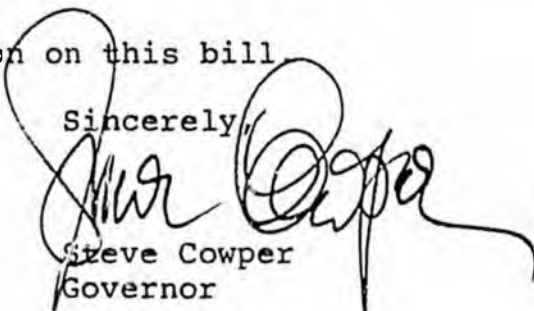
Under the authority of art. III, sec. 18, of the Alaska Constitution, I am transmitting a bill relating to the confidentiality of research conducted by the University of Alaska. This bill would prevent valuable processes or procedures used in research from being taken from their inventors or the state.

Persons who engage in research often develop procedures or techniques that have substantial commercial value. This information usually is set out in written form that qualifies as a public record. A researcher might use the procedure or technique as a tool in performing a research project. However, some qualified researchers might not actively seek research grants from the university because they fear that the information used during the research by the researcher will be disclosed to competitors through a public records request and disclosure.

Under this bill, research in progress is exempted from the open records law (AS 09.25.110 -- 09.25.125) and the open meetings law (AS 44.62.310). Under this provision, information owned by a researcher could be protected by being made confidential while a research project is underway. The university may also protect other valuable information developed through university-sponsored research pending the perfection of a federal copyright or patent. The purpose of this bill is to provide formality to existing practices of the university. It is felt that this formality will protect the university and its faculty while at the same time providing the environment to encourage research in the state university system.

I urge your favorable action on this bill.

Sincerely,



Steve Cowper
Governor

Sec. 09.25.090. Objections to tender. The person to whom a tender is made shall at the time specify any objection the person may have to the money, instrument, or property, or the person waives it. If the objection is to the amount of money, the terms of the instrument, or the amount or kind of property, the person shall specify the amount, terms, or kind which the person requires, or is precluded from objecting later. This section shall not be construed to modify or change in any manner corresponding provisions of the Uniform Commercial Code (AS 45.01 — 45.09). (§ 3.20 ch 101 SLA 1962)

NOTES TO DECISIONS

It is not necessary to tender cash. constitute a proper tender. *Ward v. Miller*, 13 Alaska 752 (1952).
 And a check, unobjected to, would *Miller*, 13 Alaska 752 (1952).

Sec. 09.25.100. Disposition of tax information. Information in the possession of the Department of Revenue which discloses the particulars of the business or affairs of a taxpayer or other person is not a matter of public record, except for purposes of investigation and law enforcement. The information shall be kept confidential except when its production is required in an official investigation or court proceeding. These restrictions do not prohibit the publication of statistics presented in a manner that prevents the identification of particular reports and items, or prohibit the publication of tax lists showing the names of taxpayers who are delinquent and relevant information which may assist in the collection of delinquent taxes. (§ 3.21 ch 101 SLA 1962)

Collateral references. — Validity, construction, and effect of state laws requiring state officials to protect confidentiality of income tax returns and information, 1 ALR4th 959.

Sec. 09.25.110. Inspection and copies of public records. Unless specifically provided otherwise the books, records, papers, files, accounts, writings, and transactions of all agencies and departments are public records and are open to inspection by the public under reasonable rules during regular office hours. The public officer having the custody of public records shall give on request and payment of costs a certified copy of the public record. (§ 3.22 ch 101 SLA 1962)

Cross references. For proof of public records, see Evid. R. 1005; for management and preservation of public records, see AS 40.21.

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UAF Research Support News

Vol. 5 No. 1 March 1989

PICO Contract Becomes Reality

by Pete Kelly

In August of 1988 the University of Alaska Fairbanks moved further into the "age of the arctic" when UAF was awarded the \$5.5 million Polar Ice Coring Office (PICO) contract. A competitive bid by the Office of the Vice Chancellor for Research and an overall desire by the National Science Foundation (NSF) to move the operation to an institution committed to arctic research tipped the scales in favor of UAF and made PICO the latest campus addition.

In the next month PICO will have an increasing presence on campus as it begins the gradual process of moving from the University of Nebraska-Lincoln, its home of 15 years. Jay Sonderup, Assistant Director, and Kent Swanson, Senior Logistics Manager, have moved to Fairbanks and are coordinating the task of relocation.

PICO functions as a logistics and ice drilling support unit for various scientific expeditions in Greenland and Antarctica. It provides state-of-the-art drilling equipment and instrumentation for coring depths in excess of 3000 meters. In any given year, PICO supports approximately 15 field projects and 75 individuals on the ice sheets of Antarctica and Greenland. Though its mission goes "hand in glove" with arctic scientific

research, PICO itself conducts no actual research. Instead, through NSF, they provide expedition support, drilling technology, logistics and transportation for the scientists who do.

The prehistoric ice sheets contain ancient records of annual precipitation, atmospheric temperature and composition, solar activity and the occurrence of volcanic activity. Data from deep ice cores fills a critical gap in the global climate record by providing the most detailed records available dating back to the last interglacial period. Unfortunately, this valuable information is locked in a harsh environment that requires special expertise to unlock. It would be a logistics nightmare, maybe an impossibility, to conduct this kind of research without the services of PICO.

PICO will be a welcome addition to Fairbanks, bringing hard dollars and jobs to an ailing economy. The original contract of \$5.5 million is for three years with a two year option making it one of the largest research awards in UAF history. Beyond the first five years the contract will be renewable at five year intervals. With support from UAF, PICO can become a permanent fixture that, when added to our existing arctic endeavors, will help make our campus a vanguard for arctic research into the 21st century.

Acting Editor: Pete Kelly

UAF Research Support News is published monthly by the Office of the Vice Chancellor for Research, 3rd Floor Signers' Hall. The primary purpose of this newsletter is to promote growth in external funding of all types. It also provides a forum for issues and information of joint interest to all who are partners in UAF's mission. Your comments and questions are needed and appreciated.

The University of Alaska Fairbanks provides equal education and employment opportunity for all, regardless of race, color, religion, national origin, sex, age, disability, status as a Vietnam era or disabled veteran, marital status, changes in marital status, pregnancy, or parenthood, pursuant to applicable state and federal laws.

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FYI—Vice Chancellor for
Research and Dean of the
Graduate School 30



Funding Received October-November 1988

Total — \$16,235,000

AGRICULTURE & FORESTRY EXPERIMENT STATION

Drew	\$45,000	U.S. Dept. of Agriculture	Morrill-Nelson Funds FY89
McBeath	\$24,000	U.S. Dept. of Agriculture	Nat'l Plant Pest Survey
Mitchell	\$36,749	AK Dept. of Administration	Senior Employment Program

CENTER FOR CROSS CULTURAL STUDIES

Hagsrom	\$44,175	Fairbanks North	Star Borough Principalship
Katz	\$355,607	Nat'l Science Foundation	Kung Healing
Nice	\$34,000	Rural AK Health Professions	WAMI AIDS Education/Training
Nire	\$182,882	Rural AK Health Professions	Rural Area Health Education
Parrett	\$6,000	Fairbanks North Star Borough	Sister Schools Internship
Peters	\$5,000	Senate Finance Committee	Remote Camp Recovery
Stephens	\$39,988	AK Dept. of Education	Science Consortium Project
Wood	\$20,976	AK Dept. of Education	Fisheries Skills Upgrade Program

COLLEGE OF LIBERAL ARTS

Black	\$8,707	AK Humanities Forum	The Spirits of Kodiak Island
DeCorso	\$28,400	AK Dept. of Education	1989 Summer Fine Arts Camp
Kari	\$1,598	AK Dept. of Fish & Game	Native Place Names of Alaska
Morrow	\$7,471	Spencer Foundation	Yupik Eskimo Ceremonialism
Pearson	\$3,000	AK Dept. of Education	AK Geographic Alliance
Thomas	\$258,512	Consortium InterNat'l Dev.	Yemem Agro-Development

GEOPHYSICAL INSTITUTE

Akasofu	\$36,416	NASA	A Study of Solar-Magnetospheric
Delana	\$10,000	U.S. Dept. of Defense	Operational Support to the USAF
Jaffe	\$107,400	Nat'l Science Foundation	Tropospheric Nitrogen Oxide
Jeffries	\$3,642	Canarctic Shipping Ltd.	Synthetic Aperture Radar
Rees	\$115,000	NASA	Atmosphere-Ionosphere-
Rees	\$25,000	Southwest Research Institute	Energetic Particle and X-Ray
Sackinger	\$9,995	Exxon Production Research Co.	Geophysical Factors

INSTITUTE OF ARCTIC BIOLOGY

Dieterich	\$2,498	U.S. Dept. of Agriculture	Vaccine Testing/Serology FY89
Reynolds	\$52,186	U.S. Dept. of the Interior	Habitat Suitability for Grayling

INSTITUTE OF NORTHERN ENGINEERING

Botha	\$35,142	University of Washington	University of AK Transportation
Braley	\$29,896	Dept. Trans/Public Facilities	Management of Research Data Files -
Carlson	\$30,000	Dept. Trans/Public Facilities	Design Structures for Fish Passage
Tilsworth	\$302,996	AK Railroad Corporation	Vegetation Management

KUSKOSWIM COLLEGE

Patten	\$6,000	Dept. Health/Social Services	DPA Fee Agent Training
Smith	\$5,300	Rasmuson Foundation	TV and FM Equipment

LIBRARY

Cridge	\$1,000	AFI/NEA	Film Preservation Program
Hales	\$3,658	AK Humanities Forum	Eskimo Tribal Doctor Project Phase II

NORTHWEST CAMPUS

Mendenhall	\$23,287	AK Dept. of Education	Bus. Curriculum for Disadvantaged
Smith	\$216,474	U.S. Dept. of Education	Bilingual Education Program

CAREER & CONTINUING EDUCATION

Book	\$11,804	AK Dept. of Education	Carl Perkins Vocational Education
Book	\$79,736	Small Business Development	Small Business Development Center

SCHOOL OF FISHERIES & OCEAN SCIENCES

Dearborn	\$5,110,500	U.S. Dept. of Commerce	1989 Sea Grant
Dieter	\$1,000,000	Nat'l Science Foundation	Ship Operations Support
Goering	\$749,600	U.S. Dept. of Commerce	The APPRISE Project
Highsmith	\$100,000	Office Management & Budget	Norton Sound Environment
Jewett	\$79,200	LGL AK Research Associates	Prey of fish in the Sag River
Kramer	\$3,000	Community & Regional Affairs	Comm. Fishing Fuel Conservation
Smoker	\$7,500	U.S. Dept. of Commerce	Operation of Auke Creek Fish Weir
Stockholm	\$9,800	North Slope Borough	Scientific Editing and Illustration

UTILITIES OPERATION

Memarzadeh	\$25,500	Community & Regional Affairs	Institutional Conservation Program
Memarzadeh	\$41,642	U.S. Dept. of Energy	Institutional Conservation Program

OTHERS

Helm	\$4,503	Agricultural & Forestry Experiment Station Indemitsu AK, Inc.	Wishbone Hill Project
Skelton Junction	\$10,476	Cooperative Extension Service AK Dept. of Natural Resource	Shared Secretary, Delta
Johnson	\$147,745	CHUKCHI COMMUNITY COLLEGE Health & Human Services	Child Welfare Training
Bachner	\$4,446	Conferences & Institutes AK Humanities Forum	Circumpolar Lecture Series
Morack	\$24,691	College of Natural Sciences AK Dept. of Education	Elementary Science Education
Sinz	\$2,743	Career Planning & Placement U.S. Dept. of Education	Cooperative Education
Sheaffer	\$814	Fine Arts U.S. Dept. of Education	Indian Fellowship, 1988-1989

Lashbrook	\$127,500	Athletics and Recreation UA's Alumni Association	Athletic Grant
VICE CHANCELLOR FOR RESEARCH			
Proenza	\$5,500,000	National Science Foundation	Polar Ice Coring
Mineral Industry Research Laboratory			
Speck	\$48,005	U.S. Dept. of the Interior	Mine Systems Design
University of Alaska Museum			
Chin	\$15,000	U.A. Foundation	Sidney Chapman/Museum
Petroleum Development Laboratory			
Sharma	\$100,000	U.S. Dept. of Energy	Development of Gas Hydrate
School of Management			
Delys	\$17,947	Dept. of Tran/Public Facilities	Implementation of UNISYS System

MODIFICATIONS

AGRICULTURAL & FORESTRY EXPERIMENT STATION

Helm	\$4,503	Indemitsu AK, Inc.	Wishbone Hill Project
Jubenville	\$28,140	U.S. Dept. of Agriculture	Formula Funds - USDA
Jubenville	\$6,000	U.S. Dept. of Agriculture	Formula Funds - USDA

Fine Arts

Greiner	\$45,364	U.S. Dept. of Education	Pell Grant
Greiner	\$2,515	U.S. Dept. of Education	Pell Grant
Greiner	\$26,067	U.S. Dept. of Education	Pell Grant

Geophysical Institute

Kan	\$31,000	NASA	Quasi-Parallel Collisionless Shocks
Smith	\$3,886	Nat'l Science Foundation	Exosphere Thermosphere Ionosphere
Stringer	\$34,000	U.S. Dept. of Commerce	Remote Sensing Data Acquisition,
Weller	\$400,000	NASA	Operation of the AK SAR Facility

University of Alaska Museum

Clemens	\$6,047	University of California	Late Cretaceous Vertebrate Fauna,
Dickey	\$3,000	Nat'l Endowment for the Arts	Master Artists and Apprentices
Dixon	\$6,012	Standard AK Production	Acquisitions - SOIHO
Dixon	\$6,448	UA Foundation	Museum Archeological Collections

School of Management

Phillips	\$5,000	University of AK Foundation	Harold Caven Professorship
Thomas	\$1,500	Council on Economic Education	Fbks Center for Economic Education

OTHER MODIFICATIONS

ALASKA RURAL COLLEGE			
Roederer	\$458,000	Nat'l Science Foundation	Arctic Research Commission

Markle	\$13,216	CENTER FOR CROSS-CULTURAL STUDIES Community & Regional Affairs	Energy Outreach
COOPERATIVE EXTENSION SERVICE			
Vandre	\$9,000	U.S. Dept. of Agriculture	Forest Pest Management
College of Liberal Arts			
Koo	\$1,050	UA Foundation	Korean Studies Program
Institute of Arctic Biology			
White	\$4,062	Earthwatch	Breeding of Muskoxe Caribou
Institute of Marine Science			
Elsner	\$61,322	Purdue University	Under-Ice Movements of Seals
Reeburgh	\$33,608	NASA	Studies on Marine Env.
Kuskokwim College			
Smith	\$45	Corp. for Public Broadcasting	FM Tune-In FY89
Library			
McCarthy	\$2,500	AK Humanities Forum	The Project Chariot Story
SCHOOL OF Fisheries and Ocean Sciences			
Testa	\$9,960	Nat'l Science Foundation	Population Among Seals
Tanana Valley College			
Book	\$2,298	AK Dept. of Administration	Senior Employment
Vice Chancellor for Academic Affairs			
Thomas	\$4,600	UA Foundation	Andrew W. Mellon



Funding Requested October-November 1988

Total — \$7,715,801

Institute of Marine Science S. Henrichs

A proposal entitled *Adsorption of Amino Acids, Peptides, and a Monosaccharide by Marine Sediments: Importance in Organic Matter Decomposition Processes* has been submitted to the National Science Foundation.

The proposed research will investigate the adsorption of the amino acids alanine, glutamic acid, lysine, and leucine; several alanine peptides and the monosaccharide glucose. The goals are to determine which organic constituents of sediments adsorb amino acids, the effects of adsorption on decomposition rates, and the mechanism of adsorption. The results of these studies will help answer the questions: Is adsorption responsible, in part, for variations in decomposition rates of different organic substances? Does adsorption contribute to differences in decomposition rates of the same organic compound in sediments of differing composition?

Geophysical Institute J. Miller

A proposal entitled *Additional Software and Hardware Modification for the RGS Computer* has been submitted to the California Institute of Technology.

The RGS antenna and ancillary equipment have been

installed at the Alaska SAR Facility; they form the first of three major systems which are required to complete the ASF installation. As designed and installed, the RGS cannot interface with the Archive and Operations System (AOS) which is a requirement for the AOS to be fully functional.

This proposal would modify existing software in the RGS computer, develop new software, as well as design and implement the necessary interfaces between the RGS and AOS.

These tasks will be performed on a phased basis to support the AOS integration schedule at JPL in July 1989 and the overall integration at Fairbanks in May 1990. They will be completed to support final acceptance tests in July 1990 in Fairbanks.

Institute of Arctic Biology L. Duffy

A proposal entitled *Processing and Cell Biology of Alzheimer Amyloid Precursor Protein* has been submitted to the American Health Assistance Foundation.

This study is the central phase of a project whose long-term object is to understand the formation of brain amyloid deposits in the molecular pathology of Alzheimer's disease. We also wish to identify the function of the amyloid precursor protein. This precursor protein appears to be a 120 Kd protein that is located in the cell

membranes of mammals. The gene coding for this protein is located on chromosome 21 and is expressed in the brain as well as other tissue. This gene also appears to be highly conserved across mammalian species. In this initial phase, we will compare a variety of cell types, including the nerve cell line PC 12, glial, neuroblastoma and even fibroblasts to see if the protein is expressed in sufficient quantities for biochemical studies. Quantitation will be performed by ELISA, after isolating the protein using advanced protein chromatography techniques devised for membrane proteins. Purification of this receptor protein will be followed using antibodies which are raised to synthetic peptides based on various regions of the human protein, (known from the DNA derived protein sequence). We will supplement these anti-peptide antibodies by the production of monoclonal antibodies to the purified amyloid precursor protein. We hope to develop an overlapping series of antibodies which can recognize all regions of the protein.

The development of a cell culture system for the study of the Alzheimer amyloid precursor protein will allow us to study the cellular processing of the protein leading to amyloid formation. Specially, we will begin to understand the time course and the proteases involved. The cell culture system will also allow us to identify any ligands or other proteins which the amyloid precursor protein recognizes and

to study what cellular events that follow those interactions. Age related changes in this protein system may lead to a new biomarker for human aging.

Geophysical Institute J. Davies

A proposal entitled *Earthquake Monitoring at King Cove, Aleutians* has been submitted to the Alaska Governors Office.

Recent Seismic activity in the vicinity of King Cove in the Aleutians near the site of the inactive volcano, Mt. Dutton, is causing scientists at the Geophysical Institute, UAF, and USGS to believe an eruption of Mt. Dutton is a possibility. Precedent for such preliminary seismic activity exists from the experience at Mt. Augustine and other volcanos. In order to adequately monitor the seismic activity in real time there is an immediate need to form a communication link between the 7 seismometers at King Cove and the Geophysical Institute in Fairbanks. With this link in place it will be possible to monitor seismic activity 24 hours a day, follow the pattern of activity and assess the danger.

Geophysical Institute N. Brown

A proposal entitled *Emergency Repairs-Electrical Substation* has been submitted to the National Aeronautical & Space Administration.

This proposal is a request for funding for emergency repairs to the electrical substation at Poker Flat Research Range.

Geophysical Institute R. Smith

Midlatitude ground-based optical investigations of the dynamics and thermodynamics of

the mesosphere and lower thermosphere has been submitted to the University of Washington.

The Geophysical Institute agrees to participate in the program "Midlatitude ground-based optical investigations of the dynamics and thermodynamics of the mesosphere and lower thermosphere" under contract to the University of Washington to perform the work described below and for the reimbursement indicated in the budget.

Receive computer hardware and accessory boards from the University of Washington, build pulse counting circuitry and interface units for a system to operate the Fabry-Perot Interferometer and Ebert Spectrometer to be sited at Rattlesnake Mountain. Provide the necessary software for the control and data handling of the instrument. Install the system at Rattlesnake Mountain.

Maintain the operation of the system provided in the first year at Rattlesnake Mountain and share in the scientific work and analysis of the data.

Geophysical Institute E. Wescott

A proposal entitled *Rocket-Borne Barium Shaped-Charge Program for Study of Auroral Zone and Polar Cap Physics* has been submitted to the National Aeronautics and Space Administration.

A three-year program is proposed utilizing rocket-borne barium shaped charges to study the electrodynamics of polar cusp, pulsating and rayed auroras, and the critical ionization velocity (CIV) effect. The primary method of obtaining the electrodynamic information is by observation of the fluorescent plasma motions using ground based low-light level imagers.

Geophysical Institute R. Smith

A proposal entitled *Combined Optical and Radar Measurements in Hawaii to Investigate the Dynamics of the Mesosphere and Lower Thermosphere in the Mid-Pacific* has been submitted to the National Science Foundation.

This three year proposal is to fund a multi-instrument ground-based coordinated research program in the Hawaiian Islands which will make simultaneous measurements of the wind, temperature, sodium density fluctuations and airglow emission rate of the Mesosphere and Lower Thermosphere (MALT) with the best available horizontal and vertical spatial resolution and time resolution down to the Brunt-Vaisala frequency. The program is conceived as part of the major NSF initiative in the Division of Atmospheric Sciences known as Coupling, Energetics and Dynamics of Atmospheric Regions (CEDAR). Its goals are to improve and extend our study of the dynamics and thermodynamics of the MALT by deployment of existing mesospheric remote sensing techniques to this orographically distinct area exploiting the complementary capabilities of optical and radar methods.

Institute of Marine Science J. Lee

A proposal entitled *Microbiological Study of Surimi Production: Phase II* has been submitted to the Alaska Fisheries Development Foundation.

To examine surimi processing unit operations and to determine their influences on the microbiological quality of surimi.

To identify the nature and extent of microbiological concerns inherent in surimi production and to recommend measures

that will ensure the production of safe and wholesome surimi.

Museum J. Beget

A proposal entitled *Orbital Tuning: Applying a New Age-Dating Technique to Terrestrial Sediments* has been submitted to the National Science Foundation.

Long, continuous, paleoclimatic records comparable to those obtained from ice cores and marine cores can be produced by magnetic susceptibility profiling of thick Arctic loess deposits. We demonstrate through time series analysis that Milankovitch astronomic cycles can be identified in loess proxy climate data. Statistical tests are used to evaluate terrestrial-marine correlations between loess and paleosols and isotope stratigraphies from marine cores. These discoveries have important implications for paleoclimatology and Quaternary stratigraphy in Alaska and the Arctic, and indicate the orbital tuning age-dating technique, previously applied only to marine sediments, may in some cases be applied to terrestrial loess deposits.

We propose to test and extend the orbital tuning age-dating technique to terrestrial sediments by developing high-resolution magnetic susceptibility stratigraphies from multiple thick loess sections on interior Alaska. Our goal will be to develop long, continuous proxy climatic records covering the last 10 to the 5th and 10 to the 6th years and to estimate and cross-correlate ages of paleosols, tephra, and the loessial sediments by orbital tuning. Radiocarbon dating of intercalated organic material, conventional paleomagnetic stratigraphy, and tephrochronology will be used to correlate between sections, and to provide chronological control.

The geophysical characteristics of the magnetic carrier will be studied to better model and understand the nature of the paleoclimatic signal.

College of Liberal Arts M. Krauss

A proposal entitled *The Gwich'in Legacy of Johnny and Sarah Frank* has been submitted to the National Endowment for the Humanities.

The humor, songs, and narrative art of Johnny and Sarah Frank add individually and collectively to our understanding of the creative human spirit and the human condition. How the Franks survived as a family is really a microcosm of how the Gwich'in survived as a tribal group, often moving camp every day to locate game and maintain themselves in one of the world's coldest and harshest environments.

Our work with the tapes of Johnny and Sarah Frank will join and perpetuate a recent trend in writing Alaska Native Biographies and auto-biographies.

Institute of Northern Engineering E. Brown

A proposal entitled *Kinetics of Hazardous Waste Biodegradation in Mixed Substrate Systems* has been submitted to U.S. Geological Survey

It is now recognized that contamination of groundwater and surface water by hazardous compounds disposed by industry and used in agriculture is a very serious environmental and human toxicological problem. It is also recognized that, while many of these hazardous compounds are biodegradable, their ultimate fate depends on a variety of biological, chemical and physical processes occurring in the receiving aquatic environment.

Microbial cells that degrade carbon-containing compounds generally will metabolize mixtures of compounds in a preferential (sequential) manner based on well-known regulatory mechanisms. However, if cells are carbon starved, those regulatory mechanisms are altered such that carbon compounds can be degraded simultaneously rather than sequentially. The study will address the kinetics of simultaneous biodegradation of toluene and other carbon sources by *Pseudomonas putida* F1 growing in both continuous and fed-batch reactors. Furthermore, this study will also generate information concerning the specific toxicity of toxic substrates to populations able to degrade the toxins (i.e., maximum mg toxin/mg microbial biomass). The goal of this study will be to optimize the rate of mineralization of toluene and to maximize the absolute amount of toluene mineralized by pure cultures of *P. putida*.

Institute of Arctic Biology T. Bowyer

A study entitled *Achieving a Balance Between Conservation of Moose Winter Habitat and Habitat Loss in Alaska: a Study of Moose Diet During Winter* has been submitted to the Lindbergh Fund, Inc.

A detailed investigation of free-ranging (*Alces alces*), to be conducted from October 1988 through April 1989 on the Kenai Peninsula, Alaska, will explore and critically test two hypotheses related to diet selection during winter for this large herbivore. Competing hypotheses to be tested are: 1) moose are opportunistic feeders in winter and maximize energy intake; and 2) moose are diet specialists during winter to promote maximally-

efficient foraging. To test these hypotheses, randomly placed quadrats for monitoring browse utilization will be established in different age classes of burns that are similar in forage composition. Data will be gathered on diet selection, forage availability, forage quality, and micro-histological analysis of fecal pellets. Answers to questions on diet selectivity are vital for the development of a theoretical understanding of moose diet selection during winter and providing public agencies with technical information necessary to properly manage moose habitat.

**Institute of Arctic
Biology
D. Klein**

A proposal entitled *Habitat Selection and Occupancy by Muskoxen Dispersing from Expanding Populations* has been submitted to the U.S. Department of the Interior.

To determine the patterns of dispersal of muskoxen from expanding populations in relation to unoccupied habitat assumed to be available. Emphasis in field investigations will be on the northeastern Alaska population.

To determine the vegetative characteristics of new habitats occupied by dispersing muskoxen and the seasonal patterns of habitat use. The role of winter snow cover in controlling habitat use will be assessed as well as forage selection in relation to availability of forage types.

**Institute of Northern
Engineering
D. Kane**

A proposal entitled *Modeling Spatial Velocity and Pressure Distribution within a Flowing Culvert for Fish Passage*

Design has been submitted to the U.S. Geological Survey.

To develop a mathematical model that will predict the hydraulic behavior of flow through culverts with specific emphasis on the pressure and velocity distribution at the inlet, outlet and barrel of the culvert. Velocity and pressure are two hydraulic parameters that the fish can sense and must overcome in their upstream migration. The application of this model would be for the design of new culverts and the evaluation of existing culverts in regard to fish passage.

**Institute of Northern
Engineering
H. Luong**

A proposal entitled *Hydrological Study of an Arctic Watershed Using an Oxygen Tracing Technique* has been submitted to the U.S. Geological Survey.

This project will investigate the spring runoff hydrology of an arctic watershed. The main objective is to use the oxygen-18 isotope tracing technique to estimate the water balance of an arctic ecosystem.

**Institute of Marine
Science
Z. Kowalik**

A proposal entitled *Modeling Tsunami Waves in the Pacific* has been submitted to the National Science Foundation.

In a previous project sponsored by NSF a set of numerical models have been developed to study generation, propagation and tsunami runup in the Gulf of Alaska. We propose to continue this line of research into three important directions: (1) introduction of the source function with the realistic bottom deformation; (2) study of the Pacific-wide tsunami propagation; and (3) study of the

tsunami runup and extent of inundation along the Alaska shore.

Further extension of these results by introducing realistic time and space source function is imperative in assessing tsunami runup in the near-field and within 30 min from tsunami generation along the coastal areas of Alaska-Aleutian region. Subsequently we propose to extend computational domain from the Gulf of Alaska to the whole Pacific Ocean. (With 5' resolution the computational domain will include about 2×10^6 to the 6th grid points.) This is quite a big task but it definitely should bring strong directionality of the tsunami signal, with the new domain we will be able to define the directional properties at each location and clearly see which tsunami sources can cause a large tsunami at a given location. Finally, we plan to construct the robust numerical schemes and to use this tool to estimate runup at the populated coastal areas of Alaska.

**Geophysical Institute
R. Smith**

A proposal entitled *Thermospheric and Mesospheric Dynamics by Optical Methods at Svalbard* has been submitted to the National Science Foundation.

This proposal is for a two-year continuation of ATM86-02956 which funded Fabry-Perot Interferometer observations at Svalbard, Norway (78.2 N, 15.6E) from 1986 to 1988 along with data analysis and instrument development in Fairbanks, Alaska. The program will continue to involve the twin goals of mesospheric and thermospheric dynamics using the OH and OI 6300A emissions. Data coverage on the latter is now one year off a complete solar cycle. With the upswing of the present cycle, the brightness of OII at 7320A will increase

allowing improved data on ion velocities in the F-region which will boost the work on ion neutral coupling. The increase in the intensity of the diffuse source of OI 8446A will help the studies of wind and temperature in the 100-200 km region which commenced in the last grant period.

Geophysical Institute R. Smith

A proposal entitled *A Cedar Observatory at the Poker Flat Research Range* has been submitted to the National Science Foundation

It is proposed that the Optical Site at Poker Flat Research Range become a CEDAR Observatory Facility. The opportunities for scientific investigations under CEDAR are unique within the U.S. A core of optical astronomers from the Geophysical Institute propose investigations to be undertaken within the CEDAR objectives which make use of interferometric techniques on Doppler imaging of the atmosphere, the ionosphere and magnetosphere to study the dynamics of auroral zone phenomena. It is also planned to make provisions for CEDAR campaigns, visiting scientists and a continuing service of baseline geophysical observations and some special optical measurements. Funding is requested for the modernization and improvement of some instruments and for their continual maintenance and supervision. Since the Range has a primary mission to launch rockets, often with the support of the instruments at the optical site, a management scheme combining CEDAR and rocket launching activities will be developed in which the observing modes for baseline instruments will be standardized.

College of Liberal Arts J. McBeath

A proposal entitled *Proposal to Sponsor a Taft Seminar for Teachers at the University of Alaska Fairbanks* has been submitted to the Taft Institute.

We propose to conduct a third Taft Seminar for teachers in June 1989. Among our objectives we hope to: Refresh and further enhance teacher's knowledge of U.S. government institutions and processes, within the framework of constitutional principles and democratic values; Present teachers up-to-date information and critical perspectives on the operation of government and politics within a Western state and to focus particularly on the linkage of federal/state and state/local government processes through the party and group system. Because the Alaska party system is the weakest in the nation, a special objective will be to focus on that condition—its causes and consequences.

We also plan to test, revise, and refine classroom materials on government and the two-party system with a special application to interpretation of federal processes and institutions at the state and local level.

Institute of Northern Engineering C. Hok

A proposal entitled *Fairbanks Carbon Monoxide Monitoring and Model Evaluation* Alaska Department of Environmental Conservation.

EPA has designated Fairbanks as a non-attainment city for carbon monoxide. Although there has been a dramatic improvement in the number of annual violations of the 8-hour CO standard, Fairbanks still has a recognized problem.

The research project that has supported the model evaluation so far will end in December 1988. This proposal would build on the results of that project by taking advantage of (1) a data collection situation that can be relatively easily tailored to our needs and (2) a computer model (in which EPA is interested), that has already been installed and debugged. It has the additional benefit of maintaining and extending the expertise that has been developed. As a result, we would be ready to assist other cold region users who may be working with EPA personnel and who are interested in this updated version of the dispersion model.

Vice Chancellor for Academic Affairs J. Aigner

A proposal entitled *Percentage of Overhead allowed by the Comprehensive Program Fund for the Improvement of Post-Secondary Education* has been submitted to the U.S. Department of Education.

Severe budget cuts led Alaska to radically restructure higher education merging university, community college, rural center, state-wide extension, and fisheries program faculty into three multi-campus universities. UA Fairbanks' 6 campuses and outreach centers serve 13,000 ethnically diverse students and adult learners. In the near term, UAF recognizes it must articulate its faculty and curriculum, thereby lending coherence and increased access to its far-flung system, and concurrently, contain costs. UAF proposes to do so through programs which support improved faculty and campus integration, curriculum comparability and coordination,

teaching effectiveness, faculty retention, and distance delivery. Implementation is through faculty development programs: orientation, curriculum review, mentoring, seminars on teaching, and enhanced inter-campus communication. The UAF model should be widely transferable since it lends coherence to a far-flung system while containing costs.

**Institute of Arctic
Biology
M. Petruła**

A proposal entitled *Variation in Growth Rates of Early Versus Late Hatching Northern Pintail Ducklings in Interior Alaska* has been submitted to the Delta Waterfowl and Wetlands Research Station.

The objectives of this study are to examine seasonal variation in diet and growth of northern pintail ducklings in interior Alaska. Females will be individually marked at the nest with nasal discs to allow relocation of study broods. Individual ducklings will be web-tagged so that individuals of known age can be monitored.

**Mineral Industry
Research Lab.
D. Walsh**

A proposal entitled *Mineral Processing and Analytical Services in Support of US Bureau of Mines Offshore Mineral Exploration Cape Wales, Alaska* has been submitted to the US Department of the Interior-Bureau of Mines.

Heavy minerals have been produced from alluvial placers in western Alaska and they are reported to occur to an unknown extent in off-shore deposits. These heavy minerals may

contain strategic metals including titanium, zirconium, cobalt, tin, gold, platinum group minerals, and rare earth metals.

A wide spread surveillance and reconnaissance drilling program should be undertaken to fully analyze these reserves. With this perspective and with the goal of evaluating the strategic mineral resources of the State of Alaska, the U.S. Bureau of Mines' Fairbanks Office will undertake a sample-drilling program near Cape Wales, Alaska in the summer of 1989. This program, targeting the delineation of tin resources known to exist in near the off-shore environment of Cape Wales, will require the support of a research laboratory for mineral processing and analytical services. The Mineral Industry Research Laboratory (MIRL) of the University of Alaska Fairbanks, proposes that their faculty, staff and fully equipped laboratory be utilized to provide support, analytical and mineral processing, to the USBM sampling program. While on-site sampling at Cape Wales, Alaska will be performed by USBM personnel, MIRL will provide services which will accelerate and assist the overall mineral evaluation effort.

**Mineral Industry
Research Laboratory
R. Speck**

A proposal entitled *Development of Critical Design Criteria for Spoil-Pile Stability in the Subarctic* has been submitted to the U.S. Bureau of Mines.

The contractual work to be performed in the second year of the project includes the completion of phase I tasks. Case history inventory, field

investigation, and laboratory testing are to be concluded in the first month of the second year contract. Subsequent work will be carried out with major emphasis on data analysis, design development and final report preparation for phases I and II.

**Geophysical Institute
V. Degan**

A proposal entitled *Synthetic Spectra for Aeronomy* has been submitted to the National Science Foundation.

Synthetic spectra of atmospheric molecules are essential for the interpretation and modeling of the auroral and air-glow environment. With support from the NSF CEDAR program, we have recently implemented an interactive, menu driven software facility for generating such synthetic spectra. The facility, code named DIALUP, is accessible to the aeronomy community via SPAN (space physics analysis network). In order to support the ongoing programs at the Geophysical Institute, and to meet the needs of the general user, we propose to continue the system upgrade and development. This will include software enhancements, documentation, additional molecular band systems, microcomputer applications, and the rapidly changing networking environments.

**Institute of Marine
Science
W. Reeburgh**

A proposal entitled *Continued Geochemical and Microbiological Studies on Anaerobic Methane Oxidation* has been submitted to the National Science Foundation.

This project deals with completing analysis of samples

obtained during the 1988 Black Sea expedition and proposes new laboratory approaches to the study of anaerobic methane oxidation.

The new laboratory approaches to the study of anaerobic methane oxidation include large volume, long-term inhibition experiments conducted on slurries of sediment from the anaerobic methane maximum and operation of a multi-chamber chemostat system modified to enhance development of conditions similar to those in the methane-sulfate transition in sediments. These approaches will lead to a better understanding of the substrates and mechanisms important in anaerobic methane oxidation.

**Institute of Marine
Science
E. Dieter**

A proposal entitled *Ship Operations Support* has been submitted to National Science Foundation.

As in the past years, the R/V Alpha Helix will operate primarily in the Bering Sea during 1989. Of the scheduled 186 sea days, 80% are in the Bering Sea and 99% of the total days are in support of NSF projects. A continuing problem in scheduling Alpha Helix is the number of days requested in the Bering Sea during summer. The vast majority of scientists who request the Alpha Helix for work in the high latitude seas and do not require seasonal cruises prefer cruises in the summer. Winter sampling is severely restricted due to ice coverage of the northern Bering and the Chukchi Seas. Those projects that require seasonal cruises throughout the year, are difficult to schedule. An additional problem, which results from the intense summer

usage of the Alpha Helix, is that few days are requested in the winter. This leaves the vessel at the dock during these months. Alpha Helix will finish the 1988 schedule on 12 December and will be in the shipyard during January and February of 1989.

**Institute of Marine
Science
E. Dieter**

A proposal entitled *Shipboard Technician Support* has been submitted to the National Science Foundation.

With the increasing use of sophisticated electronic instrumentation such as Neil Brown CTD systems, rosettes, Q-fluorometer, Biosonics system, RDI-ADCP (Acoustic Doppler Current Profiler), on-board computers, SAIL system, and ATS satellite communications, the routine services of an electronic technician in Seward is necessary. The installation and routine maintenance is performed by an electronic technician in Seward on a contract basis. The electronic technician occasionally goes to sea to de-bug equipment, but not on a routine basis. To avoid downtime on such items as CTD's, Q-fluorometer, and computers we rely on redundant electronic systems. We consider redundant equipment more cost effective than employing a high-cost electronic technician full-time. In addition to the Seward electronic technician, we have an electronic engineer stationed in Fairbanks. Equipment is either shipped to him for repair and modification or he travels to Seward to perform major changes and overhauls. The electronic engineer also assists with the training of the marine technicians on routine maintenance of electronic equipment.

**Institute of Arctic
Biology
V. Bleich**

A proposal entitled *Population Ecology and Sexual Segregation in Desert-Dwelling Mountain Sheep* has been submitted to the The Boone and Crockett Club.

A detailed investigation of free-ranging mountain sheep (*Ovis canadensis nelsoni*), to be conducted from August 1989 through August 1991 at Old Dad Peak, San Bernardino County, California, will explore and critically test hypotheses related to sexual segregation in this large herbivore. Specifically, a multivariate approach will be used to examine the roles of habitat, nutrition, predation and intraspecific behavior to account for spatial separation of the sexes for this unique species. We anticipate that this research will result in a major contribution to behavioral ecology and to the development of future population models for ungulates. Mountain sheep are ideal candidates for this research because they occur in open habitats, exhibit striking sexual dimorphism, and demonstrate marked differences in spatial distribution on a seasonal basis. Additionally, the degree of inter-population movements by both sexes will be documented and the demographics of the population thoroughly described in an effort to provide baseline data for continuing long-term studies of this population. This research will integrate with efforts to conserve the species and to expand its geographic distribution. As such, the results of this investigation have the potential to provide data critical to the future well being of this largest of the native desert-dwelling ungulates (hoofed mammals) in North America.

**Institute of Arctic
Biology
J. Rachlow**

A proposal entitled *Use and Selection of Lambing Habitat by Dall Sheep* has been submitted to the Wildlife Management Institute.

The proposed research will investigate selection of lambing habitat by Dall sheep in Denali National Park and Preserve located in central Alaska. Measurements of habitat components will evaluate the importance of forage quality and abundance, climatic factors and habitat variables related to predation in relation to sites selected for lambing from April to July 1988-89. A multivariate statistical approach will be used to test the importance of these variables in the selection of the lambing areas. Mortality of lambs and ewes will be assessed from changes in the lamb:ewe ratio as well as from direct observations and location of sheep carcasses. Analysis of these data will allow identification of lambing habitat and will be used to evaluate quality and availability of suitable lambing areas. Knowledge about the relationship between selection of lambing habitat and lamb survivorship is a necessary first step toward understanding factors responsible for limiting population growth and size in this as well as harvested populations.

**Institute of Marine
Science
G. Plumley**

A proposal entitled *Cell and Molecular Biology of Nitrogen-Dependent Photosynthesis in Marine Diatoms* has been submitted to the National Science Foundation.

An estimated 35% of global primary production is by marine algae. Despite this contribution,

little is known about photosynthetic proteins, the genes or the regulation of gene expression in marine algae. Low levels of nitrogen in marine ecosystems has, no doubt, contributed to the selection of algal species which maximize nitrogen use efficiency. Since nitrogen utilization and photosynthetic processes are inextricably interwoven, these pathways have obviously evolved in parallel. Progress in understanding the physiological ecology of marine algae requires elucidation of the cellular and molecular mechanisms underlying basic physiological processes; our long term goals are the isolation of genetic elements which explain processes such as algal performance, survival and distribution. In this project, we will initiate the characterization of photosynthetic proteins and their genes in marine diatoms. The ultimate goals are to determine the extent to which proteins and/or mRNA are synthesized, processed, accumulated and degraded in marine algae as a function of nitrogen provision. Analysis of populations within mixed assemblages may be an outcome of this effort. We also will determine the extent to which the accumulation of specific photosynthetic protein(s) and/or mRNA(s) reflect population growth rates with the long term goal of using these molecules as indicators of growth rates in natural environments.

**Institute of Marine
Science
C. Bublitz**

A proposal entitled *Development of Field Manual for Sea Week Classroom Teachers* has been submitted to the State of Alaska Office of Adult and Vocational Education.

Develop a classroom/field guide to Alaska's fisheries and intertidal marine environment to

supplement the Sea Week curriculum series. Material will be developed and written for K-6 teachers who have a limited marine science and fisheries background. This manual will interrelate environmental parameters, important commercial fish species, and common intertidal animals as well as provide field identification keys and classroom resource material related to the Sea Week program.

To effectively address the variety of topics presented in the Sea Week curriculum, a comprehensive understanding of the interrelationship between the marine environment and the animals inhabiting that environment is required. The proposed manual is designed to meet this need by providing an understanding of why animals live where they live, eat what they eat, protect themselves in the manner they do, and behave in the way they behave.

The manual will consist of three parts: a series of written summaries on topics relevant to the Sea Week curriculum, an identification key to common rocky intertidal animals, and a slide series for each major animal group. Written summaries will include environmental factors which influence marine organisms, Alaska fisheries, and intertidal animals.

**Institute of Northern
Engineering
T. Tilsworth**

A proposal entitled *Alaska Railroad Corporation Vegetation Management* has been submitted to the Alaska Railroad Corporation State of Alaska.

This research project has the objective of performing studies to assess the feasibility for the use of chemicals (herbicides) by the Alaska Railroad Corporation (ARRC) to inhibit or stop vegetative growth within its right-of-way (ROW).

ARRC applied to the State of Alaska on January 7, 1988, for a permit to use two specific herbicides on their ROW during the summer of 1988. Following a number of public hearings, Governor Cowper intervened in the permit process on May 25 by denying the requested permit because of adverse public concerns. The governor directed that ARRC conduct research regarding the migration and persistence of the proposed herbicides prior to their use on a large portion of railway row. Thus, ARRC contacted the University of Alaska Fairbanks (UAF) for assistance, and the two groups developed a research project that could answer the questions regarding migration and persistence. A field inspection was conducted on August 10-11, 1988 to identify potential sites and included representatives from ARRC, INE of UAF, DOT&PF, ADEC, Denali National Park, Denali State Park and USEPA. Through a number of meetings following the field inspection, this proposal was developed to accomplish the goals and objectives of ARRC's use of herbicides for vegetation control. The project will include laboratory testing and a one-year field evaluation. ARRC plans to apply for a permit to use herbicides at the operational scale during the summer of 1991, provided that research results indicate the feasibility of its use with undue environmental impact.

**Center for
Cross-Cultural Studies
R. Barnhardt**

A proposal entitled Workshop on Education Technology and Rural Development in India has been submitted to the U.S. Department of Education.

The College of Rural Alaska, University of Alaska Fairbanks is requesting \$57,073 under the

Fulbright-Hays Group Projects Abroad program to assist seventeen faculty members and academic administrators from the College to participate in a seven week workshop on "Education, Technology and Rural Development in India", including six weeks of in-country experience. The emphasis of the workshop will be on planning, developing and executing action-oriented rural education and development programs dedicated to strengthening, diversifying and institutionalizing cross-cultural perspectives and international understanding.

**Center for
Cross-Cultural Studies
R. Gabrielli**

A proposal entitled Alaskan Native Bilingual Educational Personnel Training Program has been submitted to the U.S. Department of Education.

There is a great need for bilingual education in interior and arctic Alaska because most students are Alaskan natives whose native tongue is not English. Meanwhile, most certified teachers in Arctic and Interior Alaska are recently immigrated non-Natives who do not speak the local language and are not familiar with Native cultural styles of learning. There is, therefore, a critical need for more locally trained, bilingual Native teachers. This training for bilingual educators will promote excellence in education both for the preservice and certified teachers who are trained and for the LEP students whose classes they will teach.

**Center for
Cross-Cultural Studies
N. Murphy**

A proposal entitled Program Improvement- Fisheries Mini

Grant has been submitted to the Alaska Department of Education.

The Fairbanks North Star Borough School District (FNSBSD), Alaska Department of Fish and Game (ADF&G), and the University of Alaska Fairbanks (UAF) are involved in a cooperative effort to address fisheries and fisheries enhancement in their K-12 curriculum. The initial district-wide plan is outlined in Appendix A. This proposal requests support to offset the collaborative expense of the ambitious and timely plan for fisheries/fisheries enhancement education by the FNSBSD.

The objectives of this proposal are: •To ensure adequate technical consultation form ADF&G, and encourage further interaction between researchers and teachers. •To adequately support and reward the planning/preparation efforts of the teachers involved (with both financial compensation and leadership experience). •To ensure adequate coordination between associated projects in the area and the three collaborating institutions. •To coordinate the FNSBSD's curriculum advisory team's objective of writing a scope and sequence for fisheries education K-12. •To develop interdisciplinary studies activities utilizing the program K-5 and science curriculum appropriate to the projects at the secondary level (using Washington State's excellent "STEP", Stream Trout Enhancement Program, as a guide).

**Center for
Cross-Cultural Studies
S. Stephens**

A proposal entitled *Alaska Sea/River Week Staff Development Project* has been submitted to the Alaska Department of Education.

The goals of this project are to improve elementary school

fisheries education in Sea Week schools by providing an advanced training workshop for practicing K-6 Sea Week teachers and by assuring continued availability and dissemination on the Sea Week curriculum guides. The course will aim to improve science content knowledge, interdisciplinary teaching skills and awareness of vocational and economic issues related to fisheries. Dissemination of the Sea Week guides will enhance and support this knowledge.

**Center for
Cross-Cultural studies
S. Stephens**

A proposal entitled *Alaska Sea/River Week Vocational Project* has been submitted to the Alaska Department of Education.

To produce the pilot version of seven grade-level handbooks (5-10 pages in length) which introduce instructional economic and career information into the existing Sea/River Week Curriculum.

The Sea Week Director will identify a career education specialist and seven teachers with experience in fisheries education (K-6) to participate in a number of educational activities.

1. Share knowledge of existing career and economic education materials

2. Participate in two organizational audio-conference in which they:

-discuss the applicability of existing materials

-structure their responsibilities prior to and during the writing workshop

3. Meet for a three-day curriculum writing workshop where they produce seven handbooks for pilot testing (including an evaluation form for each handbook).

A graphics artist copies of these pilot handbooks will be distributed to the original writing

group and to the participants in the Sea River Week Training Workshop at the Applied Research Academy (June 5-9, 1989) for piloting and evaluation in the 1989-1990 school year. Additional training and distribution will take place at the National Association of Marine Educators meeting (July 18-21, 1989).

**Institute of Arctic
Biology
J. Sedinger**

A proposal entitled *Mortality of Dusky Canada Goose Goslings on the Copper River Delta* has been submitted to the U.S. Forest Service and Alaska Department of Fish and Game.

The objectives listed below are the same as those in the request for proposal distributed by the U.S. Forest Service in September, 1988.

Predation:

1. Determine rates and timing of gosling loss between hatch and fledgling. Relate this to the date of hatching and age of goslings.

2. Identify and quantify gosling losses by agent.

3. Describe movement patterns and brood home ranges in relation to gosling losses.

4. Describe predator avoidance and defensive behavior of family groups.

**Library
W. Schneider**

A proposal entitled *Peoples of the Circumpolar North* has been submitted to the Canadian Embassy.

For the development of an Anthropology course which will give students exposure to the people of the Circumpolar North. The course will introduce students to Northern peoples in North America, Europe, and Asia. This grant will be used specifically to strengthen

department background in Canadian Algonkian, Athabaskan, and Inuit groups, and to prepare Canadian materials for presentation in the *Institute of Circumpolar Cultural Traditions* which we hope to offer at least once every other year. The final product of this grant will be a course outline which reflects the research and teaching materials developed during the grant period in the course because the University already offers a course in Native Cultures of Alaska on a regular basis, a major emphasis in the Circumpolar course will be Northern Canadian.

**Conferences and
Institutes
N. Bachner**

A proposal entitled *Ninth Annual Midnight Sun Writers' Conference* has been submitted to the Alaska Humanities Forum.

Its goals are specifically focused toward the State Theme: "Literacy, Exploration, and the Humanities in Alaska." Its purpose is to promote and encourage writing and writers who grapple with the fundamental questions human beings ask about themselves and the earth on which they live. It does that by providing a week in which Alaskan writers, educators, and seven nationally known poets, non-fiction and fiction writers, and writers of children's literature, can share humanistic values and each other's work.

**Library
D. Hales
B. Parham**

A proposal entitled *Guide to Historical Photograph Collections on Microfiche of the University of Alaska Fairbanks* has been submitted to the National Endowment for the Humanities.

The object of this project is to

compile and publish 200 copies of a one-volume guide, *Guide to Selected Historical Photograph Collections on Microfiche*, a scholarly finding aid and index which will describe the scope and content of 61 of the largest and most significant photograph collections (approximately 46,000 images), relating principally to Alaska from 1884 to the 1950's. As part of the project, 20 sets of an already completed five-volume set of silver halide photo:microfiche reproductions of these collections will be distributed to 20 selected U.S. and foreign repositories containing significant polar and western U.S. archival collections of national and international significance.

**Institute of Marine
Science - Marine
Advisory Program
D. Garza**

A proposal entitled *Shore Survival for Alaska's Youth* has been submitted to the Alaska Department of Education.

"Shore Survival for Alaska's Youth" curricula has been in the development stage for the last three years and is now in draft form. The pilot program has been delivered to over 15 schools in Southeast, both rural and urban, and has met with overwhelming approval. This project will supplement the already completed work in providing an outlet for printing and dissemination.

The program design includes:

1. Distribute the draft curricula to education writers and survival instructors for input and critique.
2. Develop appropriate illustrations from already existing field-based photos for use in the curricula.

The program, which includes six sections has been field

tested in over 13 elementary school classes and several non-school educational organization activities. This program has received favorable response by educators and students. There is a great demand for the program as each year there are more requests from schools than can be handled. Teachers familiar with the program are eager to acquire the curricula and to receive training on the subjects.

**Center for
Cross-Cultural Studies
P.O. Bruneau-Gabor**

A proposal entitled *Student Support Services* has been submitted to the U.S. Dept. of Education.

The University of Alaska Fairbanks, the only full-service, residential campus in the statewide university, has the challenge of providing post-secondary education to all Alaskans, Native and non-native, rural and urban. About seven percent of the student body, 297, identify themselves as Alaska Natives at registration. Nearly all Native students meet the eligibility requirements of financial need and family education background of the Student Support Services Project. The project has in the past, focused its efforts on Alaska Native students and will continue that same focus, since that population has the greatest need for academic support services the project provides.

**Center for Cross-
Cultural Studies
C. Roussain**

A proposal entitled *Alaska Rural Health Career Preparatory Program* has been submitted to the U.S. Dept. Health and Human Services.

This project will increase the number of Alaskan Natives successfully completing health

profession training thus stabilizing health care in rural Alaska. Health care in Rural Alaska is provided by out-of-state health professionals whose rapid turnover has resulted in inconsistent health care. This program will provide locally trained Alaskans who are culturally knowledgeable, are fluent in the Native languages, can serve as positive role models, and are likely to remain in the region. A four component health careers preparatory program will (a) provide an education curriculum to prepare Native students for success in health career programs; (b) establish collaborative relationships with target health care programs selected on the basis of a culturally sensitive learning environment and tutorial support for minority students; (c) initiate the development of a health career resource center offering career guidance, recruiting services, and financial aid information to Alaskans; and (d) establish partnerships with Alaskan Native health boards and corporations for involvement in student recruitment and financial support.

A total of 15 Native Alaskan high school graduates with experience in the health field will be recruited each year for preparation for admission to health careers. Selection criteria include a minimum score of 12 on ACT tests, past experience in the health field, a desire to practice in rural Alaska, and recommendations from referring health corporations.

**Center for
Cross-Cultural Studies
C. Brennen**

A proposal entitled *Child Welfare Traineeships for Rural Alaska* has been submitted to the U.S. Dept. of Health and Human Services.

The goal of this traineeship project is to encourage social

work students, and particularly Alaskan Native students in the major, to seek employment in public child welfare work. During the first year of the project, we plan to limit the traineeships to students on the Fairbanks campus. In the second and third year it is our intent to include students who are newly enrolled in the social work major at the Chukchi campus in Kotzebue and the Northwest campus in Nome.

KUAC B. Smith

A proposal entitled *Professional Management Program-Travel* has been submitted to the Alaska Public Broadcasting Commission.

Funding of this project will enable two participants from KUAC to take part in a professional Management Program and a pre-conference session for Program Directors to be held in Anchorage November 29 through December 4.

Museum G. Selinger

A proposal entitled *General Operating Support* has been submitted to the Institute of Museum Services.

The University of Alaska Museum will utilize General Operating Support funds to further implement ongoing programs in collections management. Student technicians will be hired to assist in the processing of natural history collections. This includes: cleaning, padding, and boxing archaeological, geological and paleontological collections; mounting and cataloging botanical specimens; consolidating teeth in mammal skulls; developing oversized storage for ethnographic and archaeological collections; and computerizing

collections data. These projects will add significantly to the Museum's on-going conservation program. A conservation consultant will be contracted to provide Museum staff with additional conservation training. The Collections Manager will participate in a training program at a conservation center in the United States for several weeks.

Geophysical Institute K. Dean

A proposal entitled *Circulation, Advection and Dispersion of Surface Water In the Bering and Chukchi Seas* has been submitted to the Mobil Research & Development Corporation.

Satellite imagery will be used in conjunction with field data to study surface environmental conditions in the Bering and Chukchi Seas. The analysis and interpretation of NOAA and Landsat satellite imagery will be supported by field data from an ongoing oceanographic study of the region (ISHTAR (Inner Shelf Transfer and Recycling)). The synoptic and daily coverage of AVHRR data will be used to map the development of surface water bodies in the southern portion of the study area, their northward circulation through the Bering Strait and their dispersion and mixing with Arctic Ocean water before being lost to view beneath the sea ice. The distant thermal signatures and turbidity of the surface water will be used to map their extent and flow, horizontal diffusion of structures or across fronts, influence of wind on the mixing of surface water and the effects of the surface water on sea ice. The relatively high resolution of Landsat MSS and TM data will be used to examine structures, circulation and dispersion in site-specific areas such as along water mass boundaries and upwellings. Field data collected by ISHTAR

investigators will be used to calibrate the satellite data and to relate the surface satellite observations to physical processes within the water column. Field data has been collected from research vessels during ice-free periods since 1985 and will continue into 1989. Anticipated results include maps of the water surface that show the extent of distinct water bodies, circulation, general flow patterns and zones of mixing. Intra-annual variations, rates of change, diffusion coefficients, influence of wind and sea ice interactions will also be evaluated. The maps and analyses are intended to provide basic information that can be used to assess local environmental conditions and their influence on hydrocarbon exploration and development on the Alaskan continental shelf, and how the surface water influences the growth and melting of sea ice.

Geophysical Institute M. Rees

A proposal entitled *NASA Upper Atmosphere Research Satellite (LIARS) Prog.; Particle Environment Monitor (PEM) Experiment* has been submitted to the South West Research Institute.

The work done on this project by Geophysical Institute will be to the development of practical formalisms that yield the energy deposition rate profiles (and quantities derivable from these) produced by energetic protons, electrons and X-rays.

Geophysical Institute J. Roederer

A proposal entitled *Arctic Research Commission* has been submitted to the National Science Foundation.

This proposal requests funding for operations of the Arctic Research Commission for a one-year period beginning 3-1-89.

Geophysical Institute G. Wendler

A proposal entitled *R.E.U. Supplement-Boundary Layer Measurements in Eastern Antarctica* has been submitted to the National Science Foundation.

This proposal requests funding for 2 R.E.U. (Research Experiments for Undergraduates), students to supplement the NSF-funded project *Boundary Layer Measurements in Eastern Antarctica*.

As in the past, these students would be assigned specific projects, and be working under the supervision of the P.I. on one of the topics of the above named grant. A subject that might be well suited is the directional comparison of the wind field derived from the air photography of the sastrugi and the comparison to actual wind observations from the AWS. Another topic would be the systematic testing and calibration of the photo-electronic blowing snow measuring sensors.

Institute of Northern Engineering R. Carlson

A proposal entitled *Retrofit Design of Drainage Structures for Improved Fish Passage Phase II* has been submitted to the Ak. Dept. of Transportation.

DOT&PF has numerous highway culverts throughout Alaska that are hydraulically adequate but fail to provide sufficient fish passage. A prescribed method for hydraulic modification of existing culverts will be cost effective and enhance DOT&PF's ability to solve fish passage problems.

This Phase II study will continue the work of Phase I and will focus on the following items:

1. Analyze, using hydraulic modeling techniques, several types of outlet control structures

for Fish Creek MP 132.2 Denali Highway that will predict velocities acceptable to ADF&G for fish passage during the mean annual discharge. Structure design to be modeled will be provided by DOT&PF.

2. Analyze and develop design specifications for a culvert structure that will pass fish on Stixkwan Creek at MP 107.2 on the Denali Highway. Emphasis will be given to an outlet structure because of the steep gradient. This study will also analyze methods to retrofit the existing structure so that it will be in compliance with ADF&G.

3. Integrate the study results into a comprehensive statement of hydraulic design principles that describe the use of outlet control structures for retrofitting culverts that are not in compliance for fish passage.

KUAC B. Smith

A proposal entitled *FY89 Tune-In Grant* has been submitted to the Corporation for Public Broadcasting.

Funding of this project is to CPB-qualified public radio stations to promote and advertise programming. This funding is for the FY89 Tune-In Advertising matching grant.

College of Natural Science - Chemistry R. Stolberg

A proposal entitled *Enhancing Capabilities in Analytical Chemistry Problem Solving, Experimental Design, Trace Gas Determination, and Vibrational Spectroscopy with a Fourier Transform Infrared Spectrometer* has been submitted to the National Science Foundation.

Additions to the analytical and physical chemistry laboratory curriculum at the University of Alaska Fairbanks

are planned. Implementation will make possible the following student activities: Rapid analysis of food, medicine and gases; Use of powerful spectroscopic techniques by a dozen beginning students to allow them to solve meaningful problems; And use by advanced students to establish the validity of theoretical concepts they have learned in texts. These goals will be attained by the purchase of a fourier transform infrared spectrometer, with capabilities to sample gases, liquids, and solids directly. Students will do the following: Screen a large number of samples to reduce the scope of a problem, determine amounts of trace components in the air, verify the results of theoretical quantum mechanical calculations, and learn the capabilities and limitations of modern computer controlled instruments to simplify the solution of chemical problems. For the students in chemistry at UAF, the project will be significant because it allows many students to analyze samples as they really are.

Petroleum Development Laboratory G. Sharma

A proposal entitled *Characterization of Oil and Gas Reservoir Heterogeneity* has been submitted to the U.S. Dept. of Energy.

The objective of this cooperative research project is to comprehensively characterize Alaskan petroleum reservoirs in terms of their reserves, physical and chemical properties, geologic configurations in relation to lithofacies and structure, and development potential. This is to be accomplished through an intensive cooperative effort to identify and structure existing information, both published and unpublished, for use by developers, decisionmakers, and researchers; and to conduct

analytical characterization studies of selected reservoirs to support as comprehensive final document.

Center for Cross-Cultural Studies
P. Cullenberg

A proposal entitled *Commercial Fisheries Skills Upgrade Program* has been submitted to the Alaska State Department of Education.

The program will follow a "traveling School" approach to vocational training. Administration of the program will be handled by the Marine Advisory Program based at the University of Alaska, Bristol Bay Campus. Over a two-year period, instructors will rotate through the area offering technical classes in fisheries skills. Classes will be intensive and course content will allow for 1 credit from the University of Alaska if requested. Students will be evaluated to establish skill upgrades. Needs assessments and course evaluations will also measure the success of the classes and determine future class locations.

The goal of the program is to improve the job skills and increase the self-sufficiency of rural commercial fishermen in Southwest Alaska by providing access to high quality technical information. The program will provide 18 fisheries vocational classes to 300 fishermen in 7 communities over a two-year period. The training will be the only fisheries vocational training available to fishermen in Southwest Alaska and will provide skill upgrades to adults either starting out or already in the industry.

Center for Cross-Cultural Studies
R. Barnhardt

A proposal entitled *Alaska Native Family Alliance: Strengthening Native Family, Community and Culture* has been submitted to the Van Leer Foundation.

If approved, the proposed project will operate as an alliance of an appropriate regional native organization from each of eight participating regions, the Alaska Department of Education, and the University of Alaska Fairbanks, under the guidance of a Board of Elders representing the eight local demonstration sites. Participating regions will be selected by alliance members on the basis of support for and willingness to participate in the development of a state-wide support system for strengthening families and culture in rural Native communities. An initial regional meeting made up of representatives from the respective Native regional health, education and social service agencies will identify the community that will serve as the demonstration site and the organization to serve as the state-wide alliance member for each region. Within each of the participating communities, a local "Community Support Team" of 3-5 volunteers will be identified, and they will in turn select a team coordinator to serve as the link to the state-wide project.

Institute of Arctic Biology
S. Chapin

A proposal entitled *Intl. Conference: Physiological Process Studies in the Arctic; Implications for Ecosystem Response to Climate Change* has been submitted to the National Science Foundation.

We propose a conference to examine the ecophysiology of arctic plants and soil organisms and to consider how this information can be used to understand ecosystem processes in general and the response of arctic ecosystems to impending climate

change in particular. The conference will make a significant contribution to bridging the gap between physiological ecology and ecosystem ecology; ecophysiology can provide insight into the controls over ecosystem processes, and ecosystem ecology provides a context in which to evaluate the importance of various ecophysiological traits. The meeting will be held in Churchill, Manitoba, and will last 4 days. It will involve 20-25 presentations by physiological ecologists who have worked in the Arctic. Also included in the meeting will be ecosystem ecologists who have not worked in the Arctic. Their role will be to provide a global context and to insure that presentations and discussion remain focused on the link between physiological ecology and ecosystem ecology.

Agriculture & Forestry Experiment Station
P. Windschill
L. Bruce

A proposal entitled *Efficacy of Fish Meal in Dairy and Feedlot Cattle Diets and its Effects on Animal Performance and Products* has been submitted to the National Coastal Resources R&D Institute.

It is expected that the fish processing industry will continue to expand along coastal areas, and with increased environmental restrictions on the dumping of fish-processing wastes into coastal waters, the production and utilization of fish meal in cattle diets offers an opportunity for converting a by-product into a marketable resource. Data from these projects will help to establish optimum feeding levels and utilization possibilities of fish meal in dairy and feedlot cattle diets. Livestock producers and fish processors could take

immediate advantage of these research findings since fish meal is currently available. Presentations and publications of the results will disseminate the research findings. The relatively large number of dairy and beef cattle in states such as California and Washington offer an immediate, viable market for Alaskan and other Pacific coast derived fishmeals.

The general objectives of these studies are to:

1. Contribute to the establishment of a market for fish meal through applied research aimed at fish meal utilization in dairy and beef cattle diets;

2. Further establish the protein value of fish meal in ruminant diets and investigate other potential growth factors that may be present;

3. Define optimum feeding levels and strategies for utilization of fish meal in dairy and feed lot cattle diets.

Institute of Northern Engineering D. Schell

A proposal entitled *Peat Carbon Accumulation Rates in Arctic Alaskan Tundra* has been submitted to the U.S. Department of Energy.

This project seeks to determine whether peat is still accumulating or is being lost through biological and physical processes on Alaska's North Slope. Cores of peat will be collected on three coast-to-foothill transects and the radiocarbon activity profiled. The information is essential in understanding the role of arctic and subarctic peat in global carbon dioxide fluxes.

Institute of Marine Science B. Kelly

A proposal entitled *Monitoring of Bowhead Whale Move-*

ments in the Beaufort Sea has been submitted to the Amoco Production Company.

This funding request is for extending the monitoring of bowhead whale movements in the Beaufort Sea. Continuation of aerial surveys until the migration was "called" by the National Marine Fisheries Service required more time and support than was covered by the Institute of Marine Science subcontract from Purdue University.

The budget includes additional salary for the P.I. and a technician to complete the aerial surveys, package and ship equipment to Purdue University and Woods Hole Oceanographic Institution, and to collate and distribute the radio-tracking and aerial survey data. Also included are funds necessary to cover data reduction and reporting, travel, telephone and photocopying costs.

Institute of Marine Science R. Eisner

A proposal entitled *Coronary Flow & Resistance to Cardiac Hypoxia in Seals* has been submitted to the American Heart Association.

Marine mammals possess adaptations for the progressive asphyxia of long underwater submersions. Some seal species are good examples, and their primary defenses against hypoxia, hypercapnia and acidosis include oxygen storage and metabolic conservation by selective distribution of cardiac output, thus assuring oxygen supply to the brain and heart. They can endure a decline in arterial PO_2 to 10 torr and pH of 6.8 with uneventful recovery. Cardiac resistance depends upon enhanced anaerobic capability supported by high glycogen storage and reduced oxygen requirement without major alteration of arterial blood

pressure. Coronary perfusion declines during experimental dives in approximate proportion to the reduced heart rate. However, instantaneous flow is highly variable, and it intermittently ceases entirely, sometimes for 45 sec. The proposed research is directed toward understanding the ability of the seal heart to maintain mechanical function despite severe hypoxemia and intermittent ischemia. Our approach to this problem at this stage will be to study the vascular reactivity and electrophysiology of isolated coronary arteries and cultured tissues from the hearts of seals and terrestrial mammals. Agonists and antagonists of autonomic effects on vascular smooth muscle will be systematically tested for possible regulatory influences on these vessels in a controlled bath preparation. Other substances which have vasoactive effects will be similarly examined. Our primary results indicate that the approach and procedures are likely to be successful. The long-range objective of this research is the elucidation of cardiac protective mechanisms which may be present in seals but not in terrestrial mammals.

Institute of Arctic Biology R. White

A proposal entitled *Nutritional Effects on Lactation, Nursing Behavior and Breeding Success of Muskoxen, Caribou and Reindeer* has been submitted to the Center for Field Research.

The objective of this study is to assess the influence of nutrition on lactation, maternal-offspring behavior, and reproductive success in muskoxen. A small colony of tame, tractable animals held at the Large Animal Research Station, University of Alaska Fairbanks, will be used. The relationships between planes

of nutrition, adult body condition, milk yield, growth rate of the calf, timing of ovulation, and conception success will be determined. The influence of nutrition on calf behavior will be studied as nursing behavior of the calf is thought to provide a feedback control of offspring fitness on weaning date and breeding activity of the female. These parental investment strategies of muskoxen toward their calves will be compared with the maternal strategies of other sympatric northern ungulates, reindeer and caribou. This research will further our understanding of the breeding biology of muskoxen and will therefore provide a basis for their management. This has particular importance for protection of critical habitat, especially in view of the effects of northern development associated with mineral and petroleum exploration.

Volunteers will assist in making behavioral observations, collecting milk and urine, weighing animals, and providing general animal care. Activity/behavioral changes will be monitored from viewing towers and entered onto a field computer.

Geophysical Institute D. Christensen

A proposal entitled *Spatial and Temporal Stress Variations in the Outer Rise and Subduction Zone* has been submitted to the National Science Foundation.

In a previous study, spatial and temporal variations observed in outer rise earthquakes were related to the coupled and uncoupled nature of the interplate contact zone. The results indicate that in strongly coupled subduction zones the stress orientation from outer rise

focal mechanisms is directly related to the occurrence of large underthrusting earthquakes and thus an integral part of the earthquake cycle. Compressional (thrust) outer rise events occur in locked portions of the subduction zone before large underthrusting events and tensional (normal) outer rise events follow the occurrences of large underthrusting events. While the correlation is compelling, it is nonetheless based on a small and incomplete data set. In this study the data base will be expanded by decreasing the magnitude cutoff and increasing the time window from which the data base is derived. Larger events (>5.5) will be studied in order to determine a complete data set for the years 1963-1988 at that level on a global scale. More detailed studies, including the addition of smaller events (<5.5) and possible expanded time scales will be performed for interesting areas.



Program Deadlines

The following several pages contain lists of funding sources with deadline dates, program descriptions, addresses, and telephone numbers. The information is listed in alphabetical order by agency or foundation name. When multiple programs occur within an agency, they are listed in chronological order by deadline date.

If you need assistance in getting more information about any of these programs, call Bill Jacobson at 7719. He will have detailed program information and/or application forms for some of the programs announced. If appropriate information is not on file, a request can be made to have the information sent directly to you. Each program has been assigned a reference number for convenience and efficiency; when you call for information about any of these programs, please refer to the reference number.

If you'd like to talk directly to any agency or foundation to get information about the programs listed here or other programs, remember that you are welcome to use the telephone in the resource library (3rd Floor, Signers' Hall).

Academy of American Poets

April 15 The Lamont Poetry Selection
212/427-5665

American Association of Museums

April 28 Museum Assessment Program (MAP 1)
202/289-1818

American Honda Foundation

May 1 Institutional Grants for Youth and Science Ed.
Other Deadline: November 1
213/781-4090

American Institute of Certified Public Accountants

April 1 Financial Assistance to Doctoral Candidates Accounting

American Society for Engineering Education

April 1 Office of Naval Technology/American Society fo Engineering Education - Postdoctoral
Fellowship Program
Other Deadline: October 1
202/293-7080

Burroughs Wellcome Fund

- April 1 George Herbert Hitchings Award for Innovative Methods in Drug Design
919/248-4136
- May 1 Wellcome Visiting Professorships in the Basic Medical Sciences
919/248-4136
- May 1 Wellcome Visiting Professorships in the Microbiological Sciences
919/248-4136

Congressional Black Caucus Foundation

- April 30 Congressional Fellows Program
202/543-8767

Corporation for Public Broadcasting

- April 21 Open Solicitation
Other Deadline: January 6
202/955-5137

Council on Library Resources

- April 1 Faculty/Librarian Cooperative Research Grants
Other Dealine: November 1
202/483-7474

Department of Agriculture

- April 10 Research Grants: Ozone Depletion (as related to crop productivity)
202/475-5042

Department of Commerce

- April 1 NOAA/National Estuarine Reserve Research System Research Opportunities
202/673-5126

Department of Education

- May 15 Veterans Education Outreach Program
202/732-4406

Dr. Scholl Foundation

- May 15 Dr. Scholl Foundation Grants (write for guidelines: 11 S. LaSalle Street, Suite 2100,
Chicago, IL 60603)
312/782-5210
- May 15 Grants (write for guidelines: 11 S. LaSalle Street, Suite May 15 2100, Chicago, IL 60603)
312/782-5210

Dreyfus Foundation Inc.

- April 15 Teacher-Scholar Grants in Chemistry, Biochemistry
212/753-1760

April 15 Chemical Engineering (nominations due)
212/753-1760

Economic History Association

April 1 Arthur H. Cole Grants-in-Aid for Research in Economic History
202/994-6052

Commission on the Bicentennial of the Constitution

May 15 Constitution Bicentennial Educational Grant Program
202/653-5110

Food and Drug Administration

April 15 Scientific Conferences
Other Deadline: January 15
301/443-6170

Fund for the Improvement of Post-secondary Education

May 1 Drug Prevention Programs in Higher Education: National College Students
202/732-5750

May 1 Organizational Network Program
202/732-5750

German Academic Exchange Service

April 1 Legal Studies & Internship (Young Lawyers)
212/758-3223

German Marshall Fund

April 30 Fellowship Program for U.S. Environmentalists
202/745-3950

Hagley Museum and Library

May 1 Hagley/Wintertthur Fellowships in Arts & Industries 302/658-2400
May 1 Relationship between economic life and the arts - phone extension 244
302/658-2400

Health Resources and Services Administration

May 17 Maternal/Child Health: Genetic Disease Testing, Counseling, & Info. Projs.
301/443-2170

Henry Luce Foundation

April 1 Professorship Program (institutional applications)
212/489-7700

Hewlett-Packard Company

April 1 Hewlett-Packard Equipment Grants to Community Colleges
415/857-5197

J. Paul Getty Trust

April 10 The Getty Grant Program: Architectural Conservation Grants
Other Deadline: October 10
213/393-4244

Jesse B. Cox Charitable Trust

April 15 Institutional Grants in Education
Other Deadline: July 15
617/426-7172

April 15 Environment, and Health (for organizations in New England region)
Other Deadline: July 15
617/426-7172

International Research and Exchange Board

April 1 Special Short-Term Travel Grants for Senior Scholars in the Social Sciences
Other Deadline: October 1
609/683-9500

April 1 Grants for Independent Short-Term Research (to USSR, E. Europe, Mongolia)
Other Deadline: October 1
609/683-9500

MacDowell Colony

April 15 MacDowell Colony Residencies for Writers, Composers, & Visual Artists
Other Deadline: January 15
603/924-3886

National Endowment for the Arts

April 3 Museums: Special Artistic Initiatives
202/682-5442

April 3 Visual Arts: Special Projects (Grants to Organizations)
202/682-5448

April 7 Inter-Arts: Partnerships in Commissioning and Touring, Intent to Apply Due
202/682-5444

April 7 Music Presenters & Festivals: Chamber Music/New Music Presenters
202/682-5445

April 14 Arts Administration Fellowship Program
Other Deadline: January 13
202/682-5786

April 15 Theater: Distinguished Artist Fellowships in Theater - nominations
202/682-5425

April 24 Media Arts: Media Arts Centers
202/682-5452

April 28 Music Presenters & Festivals
202/682-5445

- April 28 Music Presenters & Festivals: Multi-Music Presenters
202/682-5445
- April 28 Music Presenters & Festivals: Jazz Presenters
202/682-5445
- April 28 Music Presenters & Festivals: Solo Recitalist Presenters
202/682-5445
- April 28 Music Presenters & Festivals: Jazz Management
202/682-5445
- April 28 Music Presenters & Festivals: Jazz Special Projects
202/682-5445
- May 12 Inter-Arts: Partnerships in Commissioning and Touring
202/682-5444
- May 18 Dance Program: General Services to the Field
202/682-5435
- May 19 Inter-Arts: Services to Presenting Organizations, Applications
202/682-5444
- May 19 Media Arts: National Services
202/682-5452
- May 26 Opera - Musical Theater: Professional Companies
202/682-5447
- May 26 Opera - Musical Theater: Regional Touring
202/682-5447
- May 26 Opera - Musical Theater: Services to the Art
202/682-5447
- May 26 Opera - Musical Theater: Special Projects, Concert Opera
202/682-5447
- May 26 Opera - Musical Theater: Special Projects, Artistic Associates
202/682-5447
- May 30 Design Arts: Design Advancement/Project Grants for Organizations
202/682-5437
- May 30 Design Arts: Design Program Grants to State and Regional Arts Agencies
202/682-5437

National Endowment for the Humanities

- April 1 Higher Education in the Humanities
Other Deadline: October 1
202/786-0380
- April 1 Institutes for College and University Faculty (institutional applications)
202/786-0384
- April 1 Summer Seminars for School Teachers
202/786-0463
- April 1 Division of Research Programs/Texts: Publication Subvention
202/786-0207

National Institute of Health

- May 10 Nat'l Rsch. Service Awards - Predoctoral & Postdoctoral Nurse Fellowships
Other Deadline: January 10
301/496-7441
- May 10 Fogarty Internat'l Center: Senior Fellowship Program (nominations due)
Other Deadline: September 10
301/496-6688
- May 10 Fogarty Internat'l Center: Finland Postdoctoral Research Fellowships
301/496-6688
- May 10 Fogarty Internat'l Center: Irish Health Research Board Fellowships
301/496-6688

- May 10 Fogarty Internat'l Center: Norwegian Science & Humanities Postdoctoral
301/496-6688
- May 10 Fogarty Internat'l Center: French National Institute of Health and Medical
301/496-6688
- May 10 Research Postdoctoral Fellowships
301/496-6688
- May 10 Fogarty Internat'l Center: Swiss National Science Foundation Postdoctoral
301/496-6688
- May 10 Fogarty Internat'l Center: Swedish Medical Research Council Postdoctoral
301/496-6688
- May 10 Fogarty Internat'l Center: National Institute of Health French CNRS Program for
Scientific Collaboration.
301/496-6688
- May 10 Fogarty Internat'l Center: Israeli Ministry of Health Postdoc Rsch. F'ships
301/496-6688
- May 10 Fogarty Internat'l Center: Japan Society for the Promotion of Science
301/496-6688
- May 10 Postdoctoral Research Fellowships
301/496-6688

National Institute of Justice

- April 19 Offender Classification and Prediction of Criminal Behavior
Other Deadline: January 18
800/851-3420
- April 25 Violent Criminal Behavior
Other Deadline: February 1
800/851-3420
- May 3 Drugs, Alcohol, and Crime
Other Deadline: January 25
800/851-3420
- May 5 White Collar and Organized Crime
Other Deadline: January 6
800/851-3420
- May 12 Punishment and Control of Offenders
Other Deadline: January 13
800/851-3420
- May 15 Forensic Science and Criminal Justice Technology
800/851-3420
- May 19 Victims of Crime
Other Deadline: January 20
800/851-3420
- May 26 Public Safety and Security
Other Deadline: January 27
800/851-3420

National Research Council

- April 15 Senior and Postdoctoral Research Associateships (December 15 deadline for NASA)
Other Deadline: January 15
202/334-2760

National Science Foundation

- April 1 Conference Board of the Math. Sciences: National Science Foundation-CBMS Regional
Conferences
202/293-1170

April 1 Computer Research: CISE Institutional Infrastructure - Minority
 202/357-7349

April 1 Institutions Continuing Grants
 202/357-7349

April 1 U.S./Australia Cooperative Science
 202/357-9558

April 1 Materials Development and Research: Informal Science Education
 Other Deadline: December 1
 202/357-7076

April 1 Studies and Analyses Program/Assessment Studies Program - target dates
 Other Deadline: October 1
 202/357-7425

April 15 Teacher Preparation and Enhancement: Teacher Preparation
 Other Deadline: October 15
 202/357-7069

April 17 Design, Manu. & Computer Engin.: Strategic Manufacturing Initiative
 202/357-5167

May 1 Advanced Sci. Computing: Networking and Communications Research
 Other Deadline: December 1
 202/357-7558

May 1 Biotic Systems & Resources: Land-Margin Ecosystems Research
 202/357-9600

May 1 Biotic Systems & Resources: Doctoral Dissertation Research Improvement
 Other Deadline: October 15
 202/357-9734

May 1 Instrumentation and Instrument Development Program
 Other Deadline: November 1
 202/357-7652

May 1 Atmospheric Sciences: Climate Dynamics Research - target dates
 Other Deadline: August 1
 202/357-9892

May 1 U.S./Argentina Cooperative Science
 Other Deadline: November 1
 202/357-9563

May 1 U.S./Brazil Cooperative Science
 Other Deadline: November 1
 202/357-9563

May 1 U.S./East European Cooperative Science - Bulgaria, Hungary, and Romania
 202/357-7494

May 1 U.S./France Cooperative Science - Cooperative Research and Joint Seminars
 202/357-7554

May 1 U.S./Latin America & Caribbean Cooperative Science
 Other Deadline: November 1
 202/357-9563

May 1 U.S./Mexico Cooperative Science
 Other Deadline: November 1
 202/357-9563

May 1 U.S./Venezuela Cooperative Science
 Other Deadline: November 1
 202/357-9564

May 1 Materials Development and Research: Applications of Advanced Technologies
 Other Deadline: September 1
 202/357-7064

May 15 U.S./Japan Cooperative Science: Cooperative Research
 Other Deadline: July 1
 202/357-9558

- May 15 U.S./Japan Cooperative Science: Joint Seminars Program
Other Deadline: July 1
202/357-9558
- May 15 U.S./Japan Cooperative Science: Photoconversion & Photosynthesis
Other Deadline: July 1
202/357-9558
- May 15 Materials Development & Rsch: Instructional Materials Development
Other Deadline: November 15
202/357-7066

Organization of American States

- April 30 Organization of American States: Fellowships - Regular Training Program August 31
202/458-3902

Research Corporation

- May 1 Research Opportunity Awards (nominations due)
Other Deadline: October 1
602/296-6771

Russian and East European Center

- April 1 University of Illinois Russian and E. European Center: Summer Research Laboratory
217/333-1244
- April 1 Univ. of Ill. Russian and E. European Center: Visiting Scholars Program
217/333-1244

Smithsonian Institute

- April 1 United States Institute of Peace: Solicited Grants Program - Regional
202/457-1700
- April 1 Conflict Management and Resolution
202/457-1700
- May 1 Sigma Xi, The Scientific Research Society: Grants-in-Aid of Research
Other Deadline: November 1
203/624-9883

Society of Nuclear Medicine

- May 1 Society of Nuclear Medicine: Pilot Research Grants in Nuclear Medicine
Other Deadline: December 15
212/889-0717

Wenner-Gren Foundation

- May 1 Anthropological Research Small Grants Program
212/957-8750

FYI

Vice Chancellor for Research and Dean of the Graduate School



Office of the Graduate School

Thirty two graduate students were awarded degrees at the end of the 1988 fall semester. Among the graduates were one Ph.D., one Ed.S, and thirty master's degrees (20 M.S., 5 M.Ed., 4 M.A., 1 M.F.A.) Graduates should have received their diplomas by mid-January and are invited to participate in the May commencement ceremony.

Graduate Resource Fellowship applications were due on March 1, and announcements of awards will be made on April 21. The 1989-90 stipends, \$6500 for masters students and \$10,000 for doctorates, will start on July 1. Two doctoral and three masters fellowships will be awarded this year.

Mary Ann Borchert
Coordinator
305 Signers' Hall
474-7464



Office of Sponsored Programs

The following is a list of the publications available for your use in the Proposal Office. If you have any questions about any of the titles listed, please contact Bill Jacobson (7719) and he can answer your questions.

The current staff in the offices under Dr. Proenza's direction are listed in the table below for your reference.

Luis Proenza	Vice Chancellor for Research and Dean of the Graduate School (7314)
Kathy Webb	Administrative Assistant (7314)

Office of Sponsored Programs:

Dorothy Yates	Executive Officer (7394)
Diane McLean	Program Manager (7937)
Marsha Wendt	Research Development Officer (7938)
Bill Jacobson	Proposal Coordinator (7719)

Office of the Graduate School:

Mary Ann Borchert	Coordinator (7464)
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University of Alaska Press:

Debbie Van Stone	Marketing/Sales Manager (6389/7798)
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PERIODICALS

Commerce Business Daily
Federal Grants & Contracts Weekly
Federal Register
Federal Research Report
Foundation News
Higher Education & National Affairs
N.S.F. Bulletin
Office of Technology Assessment Newsletter
The Grant Advisor
The Taft Non-profit Executive

States Vol. 1
Catalog of Federal Domestic Assistance*
Corporate 500
Directory of Grants in the Humanities
Directory of Research Grants*
Education Guide 1987 Vol I & II
Evaluation Handbook
Federal Education Grants Directory
Federal Fast Finder
Federal Grants: A Basic Handbook
Federal Yellow Book*
Financing and Managing University Research Equipment
Foundation Grants for Individuals

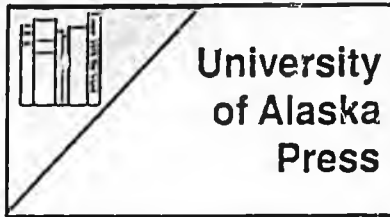
BOOKS

Alaska Regional Studies Plan—Minerals Management Service
America's Newest Foundations
Arctic Research of the United

Foundation Grants Index 10th Edition
 Funding for Anthropological Research
 Getting Grants
 Grant Proposals That Succeeded Grants
 Grantsmanship Training Program
 How to Get Corporate Grants
 How to Get Government Grants
 How to Raise Funds From Foundations
 How to Write Successful Foundation Presentations
 Information U.S.A.
 Needs Assessment Handbook
 New Research Centers
 N.S.F. Grants for Scientific & Engineering Research
 N.S.F. Grants for Scientific Research
 Proposal-Writers Swipe File
 Research Centers Directory
 Source Book Profiles*
 Successful Fund Raising Techniques
 The Complete Guide to Corporate Fundraising
 The Corporate 1000
 The Foundation Directory 11th Edition*
 The Grantsmanship Book
 The Hold Harmless Agreement
 The "How to" Grants Manual
 The International Corporate 1000
 The New Grants Planner
 The Quick Proposal Workbook
 The Raising of Money
 The Thirteen Most Common Fund Raising Mistakes & How to Avoid Them
 Total Proposal Building
 University-Connected Research Foundations
 United States Arctic Research Plan
 Where America's Large Foundations Make Their Grants
 Writing With Precision

*Not to be removed from library. All others may be checked out.

Bill Jacobson
 Proposal Coordinator
 3rd Floor Signers' Hall
 474-7719



At the midway point of fiscal year 1989, the University of Alaska Press is thriving as never before.

"We're so successful it's terrifying," said Carla Helfferich, managing editor for the Press and science writer at the Geophysical Institute. "With so many new books coming out, manuscripts arriving from all over the world, and a really high-powered editorial board over-seeing it all, we've edged into the big leagues. It's right on the brink of what we can handle—exhilarating but nerve-racking.

The University of Alaska Press publishes scholarly nonfiction relevant to Alaska, the circum-polar north, and the North Pacific Rim. The Press also undertakes marketing and distribution tasks for university departments and other small and non-profit publishers.

During the past six months, we took on the Spirit Mountain Press biography series, lent a hand with some titles from the Alaska Native Languages Center (ANLC), and helped the Alaska State Council on the Arts to publish the literary collection *Inroads*," said Debbie Van Stone, sales and marketing manager for the Press. "In the coming months, we'll be working more with ANLC and with professor Richard Pierce of the history department at UAF. We intend to distribute his Limestone Press titles and possibly co-publish some new volumes with Limestone.

Among the titles the Press has in the works are *King Island Tales: Eskimo History and Legends from the Bering Strait*, a joint publication of the ANLC and the

Press; *Birds of the Seward Peninsula*, by Dr. Brina Kessel; *From the Writings of the Greenlanders*, text in English and West Greenlandic compiled and edited by Dr. Michael Fortesque of the University of Copenhagen, Denmark; *Enjoying a Life in Science*, the posthumous autobiography of Per Scholander, a pioneering famous for his work in the Arctic and elsewhere; *Chills and Fever*, a history of medicine in Alaska Native communities from pre-contact times to 1900, by Dr. Robert Fortune of Anchorage; an as yet untitled biography of Waldo Bodfish, prepared by William Schneider of Rasmuson Library as the second contribution in the Oral Biography series; *Native Plants of Southern Alaska*, a comprehensive guide by Paul and Judy Hall Alaback of Juneau; *William D. Berry: 1954 - 1956 Alaskan Field Sketches*, a selection of the famous artist's work in Alaska, compiled by Elizabeth Berry.

"The Berry book especially has been a major undertaking for us," said Van Stone. "It's the first art book the Press has attempted and will include 48 pages of color sketches, so it's much more expensive than most of the things we do." The Press issued a calendar featuring Berry's work as a fundraiser for the book, and has opened an account with the University of Alaska Foundation to accept donations in support of the book project.

This past fall saw the addition of several new members to the Press editorial board. They include Dr. Kenneth Coates, an associate professor of history at the University of Victoria in British Columbia and a noted scholar of northern history; Sitka resident Dr. Richard Nelson, well-known ethnologist and author; Dr. Willy Weeks, glaciologist and chief scientist for the Alaska Synthetic Aperture Radar Facility at UAF, and recent recipient of the Seligman Crystal

from the International Glaciological society for his career accomplishments in the field; Dr. Robert Forbes, State Geologist and chief of the Alaska Division of Geological and Geophysical Surveys; Stanton Patty, Seattle journalist and lifelong student of Alaska matters; and Dr. Gordon Harrison, a political scientist formerly with the Institute of Social and Economic Research of the University of Alaska Anchorage, now living in Juneau.

They join the present board members, including Dr. Marianne Stenbaek, codirector of the Centre for Northern Studies and Research at McGill University in Montreal; Gary Holthaus, executive director of the Alaska Humanities Forum; Merritt Helfferich, associate director of

the UAF Geophysical Institute and member of the Alaska Women's commission; Nancy Lesh, of the Consortium Library at the University of Alaska Anchorage and editor of the circumpolar *Northern Libraries Consortium Newsletter*; and Dr. Neil Davis, emeritus professor at UAF and chairman of the Board of Directors of the Alaska Power Authority. Davis was the first executive director of the University of Alaska Press; he traded positions with former board member and now executive director Dr. Claus M. Naske, head of the UAF history department.

"It's an impressive group," said managing editor Helfferich. "The Press needs the range they bring— both geographically and

by topic—so we can do the job properly. Going by the reviews our books have received, and by sales, we're doing well so far. But it's always a challenge, and we don't see the challenge letting up.

The Press expects gross sales to come close to \$100,000 this year approximately 30% of its sales are to purchasers outside the state. A new catalogue of Press publications should be available in February and there are at least another half-dozen titles in the works for publication in fiscal 1990.

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