

SB

206

ALASKA STATE LEGISLATURE

Rules Committee
•
Finance Committee
•
Health & Social Services Committee
•
Legislative Council
•
Committee on Committees



While in Session
State Capitol, Rm. 103
Juneau, AK 99801
(907) 465-3704
Fax: (907) 465-2529

While in Anchorage
716 W. 4th Ave
Anchorage, AK 99501
(907) 269-0169
Fax: (907) 269-0172

SENATE MAJORITY LEADER
JOHNNY ELLIS

SPONSOR STATEMENT – SENATE BILL 206

SB 206 – An Act making special appropriations for new engineering buildings for the University of Alaska in Anchorage and Fairbanks.

SB 206 will keep engineers living and working within our state by appropriating \$50 million each for the design and construction of new engineering facilities at the University of Alaska Anchorage and the University of Alaska Fairbanks.

Alaska faces a shortage of qualified engineers and some companies are resorting to sending Alaska's engineering design work outside. Shortages are especially apparent for surveyors and electrical, mechanical, mining and petroleum engineers:

- Many of the engineers working in Alaska now are not Alaska residents, up to 35% in some fields
- Only 18% of engineers working in Alaska have degrees from an Alaska institution
- Alaska is nearly last in the US for graduating engineers

To respond to the state's need, the University of Alaska Board of Regents set a priority to double annual engineering graduates by 2014, to 200 per year. UA baccalaureate engineering majors have grown significantly, nearly doubling from just over 500 in FY03 to more than 1000 in FY10. UA engineering programs are succeeding at recruiting and training more engineers, but are facing daunting shortages of lab and classroom space.

The space shortages UA engineering programs face are severe. Engineering programs across the country offer on average 120 gross square feet (gsf) per student. UAA's program currently has access to only 44 gsf and UAF's engineering program offers only 80 square foot per student. UAA's building was constructed in 1983; UAF's was completed in 1964 with an addition in 1984 and an energy conservation upgrade in 2000.

More engineering resources are a critical component of economic development and growing our own Alaskan workforce. Engineers and surveyors play key roles in the planning, design and management of any resource development, construction or development projects. For Alaska to move forward and keep our promise to develop our resources, we will need "Alaska Grown" engineers.

**COLLEGE OF ENGINEERING AND MINES
ADVISORY COUNCIL
RESOLUTION 2010-1**

**A Resolution Supporting the Development of New Engineering Facilities at the University
of Alaska Fairbanks**

WHEREAS, the University of Alaska Fairbanks (UAF) College of Engineering and Mines Advisory and Development Council (CEMADC) was established in 2005 to serve as a community voice and advocate for the UAF College of Engineering and Mines, and

WHEREAS, the membership of the CEMADC is comprised of professional representatives who serve in management and leadership roles in diverse industries that rely heavily on engineers, surveyors, project managers, and other technical and professional staff, and

WHEREAS, the CEMADC held its regularly scheduled meeting on January 29, 2010 and discussed the facility needs for the UAF College of Engineering and Mines and unanimously agreed to take formal action through the development of a resolution that would be forwarded to the Alaska State Legislature, and

WHEREAS, the UAF College of Engineering and Mines has experienced an enrollment increase of over 40% in the last three years in response to efforts to recruit engineering students to satisfy the demand for engineering graduates for Alaska's engineering industries, including the expanding resource and renewable energy industries, various proposed gas line projects, and for supporting other infrastructure projects, and is experiencing severe shortages of facilities to handle the expanding enrollment, and

WHEREAS, the UAF College of Engineering and Mines' Institute of Northern Engineering is expanding its capacity to address state needs for applied research in the areas of renewable energy, conventional fossil fuel energy fields, engineering for climate change, and state infrastructure development, and

WHEREAS, new tenure-track and research faculty being hired for the growing UAF College of Engineering and Mines seven bachelor-level degree programs and thirteen graduate-level degree programs will have no office space allocation due to the dire shortage of available space, and

WHEREAS, laboratory facilities in support of the various engineering and research programs are scattered about the campus in some cases in cramped temporary facilities, and are very much in need of expansion, centralization and modernization, and

WHEREAS, it will take substantial time to develop new engineering and research facilities once project funding is made available, and

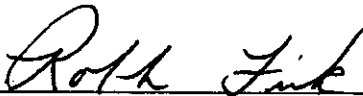
WHEREAS, the failure to provide adequate facilities for the UAF College of Engineering and Mines is causing a loss of momentum for the highly productive engineering degree programs and associated engineering research in the Institute of Northern Engineering, and

WHEREAS, the lack of proper facilities will jeopardize ABET accreditation of the programs within the UAF College of Engineering and Mines, and

WHEREAS, University of Alaska President Hamilton has identified improving and increasing education for Alaska's engineering workforce as one of the University of Alaska's highest priorities.

NOW, THEREFORE BE IT RESOLVED THAT the CEMADC is firmly committed to support for the UA Board of Regents Capital Budget Request, including the \$10M in planning and design funds for UA Engineering Facilities. The CEMADC requests that the Alaska State Legislature support the University of Alaska Board of Regents capital budget request in full and prioritize additional funding that may be available for construction of engineering facilities at the University of Alaska Fairbanks campus. BE IT FURTHER RESOLVED that the CEMADC is firmly committed to support for the UA Board of Regents Operating Budget Request for Engineering (\$355K) and the Alaska Center for Energy and Power (\$500K) and requests that the Alaska State Legislature support these critical funding increments.

On behalf of the CEMADC:



Robert Fisk, PE, BLM US Dept. of Interior
Chairman, CEMADC

CEMADC Membership:

Adam Darcee, ASRC Energy Services
Susan Childs, Shell Exploration
Mike Davis, CHEMM Company
Robert Fisk, BLM, USDO
John Hargesheimer, NORTECH, Inc.
Rich Hughes, AK Office of Economic Development
Denise Herzog, Three Parameters Plus
Galen Johnson, TVC Construction Technology
Jim Little, JCL Engineering
James Lusher, Minerals Management Service
Preston Miller, Usibelli Coal Mine
Tony Nelson, Great Northwest
Frank Paskvan, BP Exploration Alaska
Scott Pesetto, Conoco Phillips Alaska
Gordon Pospisil, BP Exploration Alaska
Daniel Rogers, Electric Power Systems, Inc.
Peter Stokes, Petrotechnical Resources Alaska
Dave Szabo, BP Exploration Alaska
Phillip Tsunemori, Conoco Phillips
Bill Watterson, Watterson Construction
Frank Wuttig, Shannon & Wilson, Inc.

**UAA School of Engineering Advisory Board
Resolution 2008-01**

**A Resolution Supporting the Development of a New Engineering Facility
at the University of Alaska Anchorage**

August 28, 2008

WHEREAS, the University of Alaska Anchorage (UAA) School of Engineering Advisory Board (SOEAB) was established in 2004 to serve as a community voice and advocate for the UAA School of Engineering, and

WHEREAS, the membership of the SOEAB is comprised of professional representatives who serve in management and leadership roles in a diverse industry that rely heavily on engineers, surveyors, project managers, and other technical and professional staff, and

WHEREAS, the SOEAB held it's regularly scheduled meeting on August 28, 2008 and discussed the facility needs for the UAA School of Engineering and unanimously agreed to take formal action through the development of a resolution that would be forwarded to the University of Alaska President and the University of Alaska Board of Regents prior to the fall Board of Regents meeting, and

WHEREAS, the UAA School of Engineering commissioned a comprehensive Programmatic Study, dated May 2, 2008, that identified the facility needs for the UAA School of Engineering for engineering and engineering sciences, geomatics and project management, and

WHEREAS, the UAA School of Engineering programs have been expanding exponentially about 10-20% per year, and

WHEREAS, the average for facility space allocation for engineering studies in the United States is 120 square feet per student, but the University of Alaska Anchorage average facility space allocation is 40 square feet per student, and

WHEREAS, new faculty staff being hired as instructors for the growing UAA School of Engineering programs currently have no office space allocation due to the dire shortage of available space, and

WHEREAS, it will take several years to develop a new engineering facility once project funding is made available, and

WHEREAS, the failure to provide adequate facilities for the UAA School of Engineering, including faculty offices, will cause an irreversible loss of momentum for the highly successful engineering and engineering sciences, geomatics, and project management course offerings, and

WHEREAS, the current UAA School of Engineering classes are already oversubscribed to an unacceptable level, and

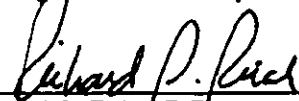
WHEREAS, University of Alaska President Hamilton has identified improving and increasing education for Alaska's workforce development as one of the University of Alaska's highest priorities.

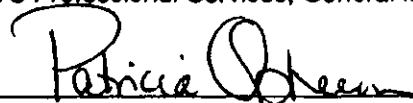
UAA School of Engineering Advisory Board (SOEAB)
Resolution 2008-01

A Resolution Supporting the Development of a New Engineering Facility at the University of Alaska
Anchorage


August 28, 2008

NOW, THEREFORE BE IT RESOLVED THAT the UAA School of Engineering Advisory Board is firmly committed to support the development of facilities essential to house and sustain the engineering and engineering sciences, geomatics, and project management programs at the University of Alaska Anchorage. The UAA School of Engineering Advisory Board requests that University of Alaska President Hamilton and the University of Alaska Board of Regents support the \$140 Million budget required for the full development of the new UAA School of Engineering Building at the University of Alaska Anchorage campus.



Richard S. Reich P.E.
Chair, UAA School of Engineering Advisory Board
BTS Professional Services, General Manager


Patricia S. Opheen P. E.
Vice Chair, UAA School of Engineering Advisory Board
U.S. Army Corps of Engineer, Chief, Engineering Division, Alaska District

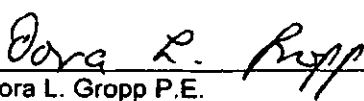

Richard S. Armstrong P.E.
RSA Engineering, Contract Engineer


Anne Brooks P.E.
Brooks & Associates, President


Paul D. Brooks
AERO-METRIC, Inc., Government Liaison Director


Joseph M. (Jack) Colonell, P.E., PhD
ENTRIX Environmental Consultants, Inc., Vice President and Technical Director

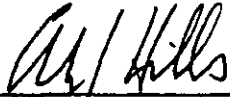

Anthony B. Follett
AERO-METRIC, Inc., COO - Anchorage Regional Office


Dora L. Gropp P.E.
Chugach Electric Association, Inc., Acting Director, Engineering Services

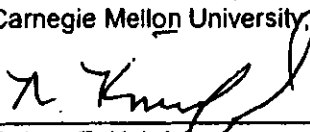
UAA School of Engineering Advisory Board (SOEAB)
Resolution 2008-01

A Resolution Supporting the Development of a New Engineering Facility at the University of Alaska
Anchorage

August 28, 2008



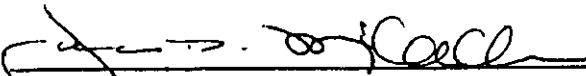
Dr. Alex Hills
Alex Hills Associates, President
Carnegie Mellon University, Distinguished Service Professor



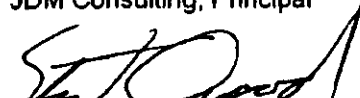
Robert E. Kniefel
Municipality of Anchorage, Municipal Traffic Engineer



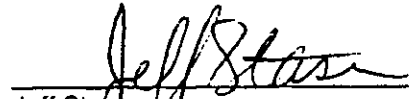
John Lay P.E.
ENSTAR Natural Gas, Director of Transmissions Operations



John D. McClellan P.E.
JDM Consulting, Principal



Stewart G. Osgood P.E.
DOWL Engineers, President



Jeff Staser
Staser Group LLC, President



Samar Walther P.E.
ConocoPhillips, Manager - Capital Projects, Alaska



Steven Weaver P.E.
Alaska Native Tribal Health Consortium, Senior Director



Jon E. Zufelt, PhD, P.E.
CRREL-AK, USARAK Science Advisor

CH2M HILL
301 West Northern Lights Blvd.
Suite 601
Anchorage, Alaska 99503
Tel 907.278.2551
Fax 907.257.2000

CH2MHILL

Senator Johnny Ellis
State Capitol, Suite 103
Juneau, Alaska 99801

February 4, 2010

Dear Senator Ellis,

When you addressed our ACEC organization in November, 2009 we discussed and agreed that the shortage of engineers in Alaska is a very real problem.


This is why I am pleased to see your follow up with the pre-filing of SB206. Please know that I am in full support of this bill as a positive step in assuring the health and vitality of the University of Alaska's engineering programs and by extension the ability to plan, design, and construct the public and private infrastructure so vital to our economic well being.

As a business manager in Alaska I can attest to the difficulty in recruiting engineers and retaining engineers relocated from the lower 48. I have found that the University of Alaska system continues to provide high quality engineers that are home grown, and want to stay in Alaska and participate in this great State's growth. Unfortunately, to date our university system has not been able to provide the number of engineering graduates to sustain the need.

The State Department of Labor estimates that 400 new engineers will be needed in Alaska each year through 2014. Currently, the University of Alaska, both in Fairbanks and Anchorage, is growing about 100 engineering graduates each year. The University is implementing a plan to double the number of undergraduate-trained engineers annually by 2012. Overall, programs at UAA and UAF expect to produce 200 undergraduate engineers every year. Doubling the number of University of Alaska graduates will make a difference, but the number of engineers introduced to Alaska's workforce will still be inadequate compared to our profession's needs. Increased funding is needed to support this and additional growth. More importantly if funding for both facilities and staff do not increase with the number of graduates it will be difficult to maintain the high quality of engineering graduates the University of Alaska currently provides.

I know you share my opinion that the need to maintain high caliber local engineering graduates has never been greater. It's time for the University of Alaska's engineering programs to get the funding they need and deserve, for our students and our state. This is a challenge that I hope we as a statewide community can meet through the combined efforts of the Legislature, the University of Alaska and our industry.

Sincerely,



Daniel, G. Sterley, P.E.

Vice President
CH2M HILL

How to reach us

| | | | | |
|---|---|--|--|---|
| MATT ZENCEY Editorial page editor 257-4346, mzencey@adn.com | FRANK GERJEVIC Editorial writer 257-4308, fgerjevic@adn.com | ROSEMARY SHINOHARA Editorial writer 257-4340, rshinohara@adn.com | LETTERS EDITOR 257-4547, Fax: 258-2157 letters@adn.com | ADDRESS Letters, ADN Box 149001 Anchorage 99514 |
|---|---|--|--|---|

Daily News Opinion

COMPASS: Other points of view

University needs help filling Alaska's engineer shortage

By **FRANK RAST**

It is well known that there is a critical shortage of workers in the construction industry. What has not received the same level of attention is the parallel need for engineers.

Our Alaska member firms have had difficulty recruiting engineers and have a poor retention rate of engineers relocated from the Lower 48. We have found that the University of Alaska has provided high-quality, homegrown engineers who want to stay in Alaska. Unfortunately, to date the UAA system has not been able to satisfy the demand.

Alaska needs an estimated 400 new engineers each year. Currently, the University of Alaska, both in Fairbanks and Anchorage, is growing about 100 engineering graduates each year.

The university is implementing a

plan to double the number of undergraduate-trained engineers annually by 2012. That will help, but by 2014, the Alaska Department of Labor anticipates, more than 3,000 engineering jobs will be

created through job growth, retirement and turnover. That's a serious shortage of engineers and will become a major problem for our state if not addressed now.

More important, if funding for facilities and staff does not increase

with the number of students, it will be difficult to maintain the high quality of engineering graduates the University of Alaska currently provides.

UAA alone has more than 700 engineering students and an enrollment rate increasing at 20 percent per year. The Engineering, Science and Project Management program is hugely successful.

It's a master's program that provides state-of-the-art education for technical professionals. It is one of only 13 such programs in the world accredited by the Global Accreditation Center for Project Management. Enrollment in this program alone has increased by 50 percent since spring 2007.

By 2014, more than 3,000 engineering jobs will be created through job growth, retirement and turnover. That's a serious shortage of engineers.

To maintain these growing — and much-needed — programs, the School of Engineering will have to double the number of faculty members and dramatically increase laboratories and other facilities. UAA's engineering facilities currently occupy 40,000 square feet; a recent space analysis shows that 200,000 square feet is needed.

Funding from the state and tuition covers only two-thirds of revenue to UAA, with remaining funds coming from a variety of sources. Philanthropic contributions are becoming increasingly important. Private support from industry and individuals will help nurture the tremendous growth of the School of Engineering and ensure a steady stream of engineering graduates.

The need to maintain high-caliber local engineering graduates has never been greater. It's time for the University of Alaska's engineering programs to get the funding they need and deserve, for our students and our state. This is a challenge that we hope to meet, with the combined help of the state, the university and our industry partners.

Frank Rast is president of the American Council of Engineering Companies of Alaska.

BOARD MEMBERS:

John Aho, PhD
Special Projects Manager

Dick Armstrong, P.E.
Contract Engineer
RSA Engineering

Anne Brooks, P.E.
Owner, Brooks & Associates

Paul Brooks
Government Liaison Director
Aero-Metric, Inc.

Jack Colonell, PhD, P.E.
Vice President and Technical Director
ENTRIX Environmental Consultants, Inc.

Tony Follett, RPP, PPS, CP
COO - Anchorage Regional Office
Aero-Metric, Inc.

Dora Gropp, P.E.
Transmission Services Manager
Chugach Electric Assoc., Inc.

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Alex Hills Associates

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Traffic Engineer
Municipality of Anchorage

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Director of Transmission Operations
ENSTAR Natural Gas

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Principal
JDM Consultants, LLC

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Chief, Engineering Division,
Alaska District,
U.S. Army Corps of Engineers, Alaska
Advisory Board Vice-Chair

Richard Reich, P.E.
General Manager,
BTS Professional Services
Advisory Board Chair

Jeff Staser
President
Staser Group LLC

Dan Starley, P.E.
Vice President
CH2M-Hill

Steve Weaver, P.E.
Senior Director
Alaska Native Tribal Health Consortium

Jon Zufelt, PhD, P.E.
Research Engineer
CIREL-Anchorage



UAA School of Engineering
UNIVERSITY of ALASKA ANCHORAGE

February 3, 2010

Senator Johnny Ellis
State Capitol, Suite 103
Juneau, AK 99801

RE: Senate Bill No. 206 - Industry Support for the UAA School of Engineering Program and for the design/construction of a new Engineering Building at UAA

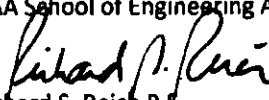
Dear Senator Ellis:

The UAA School of Engineering Advisory Board (SOEAB) is comprised of several professional representatives who serve in important leadership and management roles in a diverse industry that rely heavily on trained and experienced engineers, surveyors, project managers, and other technical and professional staff. We are pleased to see that you recognize the value that the University of Alaska (UA) engineering program brings to the State of Alaska and the fact that the existing infrastructure is severely inadequate to meet current demand. We also trust that you share our concerns that as the UAA engineering program continues to be successful in its evolution and growth, there will be a greater disparity between the educational demands of Alaskans and the ability of the University to meet those needs.

We applaud your efforts toward understanding the serious needs for the UAA School of Engineering and taking the initiative to pre-file Senate Bill No. 206 (SB206) prior to the start of the legislative session. This bill will be an important vehicle to allow for further discussion and education of others in the legislature on the dire need for capital funding for the design and construction of a new engineering building at UAA.

Our professional board is strongly united and emotionally supportive of the UAA School of Engineering Program. We fully support your efforts regarding SB206 and we are ready to provide any further support from our professional and community networks. We have data and statistics readily available to help in educating others of the exponential growth in enrollment, severe overcrowding in classrooms, lack of adequate laboratory space and equipment, and increasing demand for home-grown talent in engineering related fields. Our Board is ready and prepared to testify on the needs of our professional industry. Through our professional networks, we are continuing to coordinate and advocate support from other major industry leadership. Please know that you have our support and please don't hesitate to call upon us whenever you may need a voice from industry.

Respectfully,
UAA School of Engineering Advisory Board


Richard S. Reich P.E.
Chairman

The School of Engineering's mission is to provide high-quality, hands-on undergraduate and graduate engineering education to Alaskan students, to meet industry's need for well-trained engineers and to provide continued professional training.



UAA School of Engineering
UNIVERSITY of ALASKA ANCHORAGE



**UAA College
of Education**
UNIVERSITY of ALASKA ANCHORAGE

ALASKA TEACHER SCIENCE TECHNOLOGY ENGINEERING AND MATH PREPARATION

MEMORANDUM OF UNDERSTANDING (MOU) BETWEEN the SCHOOL OF ENGINEERING (SOENGR) and the COLLEGE OF EDUCATION (COE) UNIVERSITY OF ALASKA ANCHORAGE (UAA)

I. PARTIES OF THE MEMORANDUM

The parties of the memorandum of understanding are:

- A. UAA SCHOOL OF ENGINEERING (SOENGR)
- B. UAA COLLEGE OF EDUCATION (COE)

II. STATEMENT OF PURPOSE AND VALUES

The purpose of this Memorandum of Understanding (MOU) is to articulate the collaborative efforts of the UAA School of Engineering and the UAA College of Education to plan and coordinate course offerings and facility usage to best serve industry, students, and the community.

This MOU represents joint understanding of each entity to better serve all students and teachers in Alaska, contribute to local workforce development and economic prosperity, and mutually benefit the missions of our institutions.

It is recognized that there is a shortage of engineers and teachers in Alaska. It is also recognized that there is a need for teachers well prepared in the areas of Science, Technology, Engineering, and Mathematics (STEM) as those are of critical importance. Improved instruction in Science and Mathematics positively impact students' successful job attainment, particularly in those jobs dependent upon a strong understanding of STEM areas. These collaborative efforts will provide pre- and in-service teachers with programs and professional development that will facilitate and enhance their abilities to teach STEM-related topics in the classroom. Improved instruction will translate into improved K-12 student performance and ultimately result in successful high school-to-college transitions for students in STEM areas and related career fields.

It is also recognized that the UAA School of Engineering is a resource for providing engineering courses for professional development that enhance the knowledge, skill and confidence level of teachers, allowing them to better deliver STEM instruction. Additionally, it is recognized that facilities and laboratories designed for hands-on, experiential learning will benefit Education and Engineering students alike, as all students benefit from authentic learning. The mutual sharing of

facilities is economically efficient and builds synergy and fosters collaboration between two disciplines that share common aspects and goals. Our Values in this collaboration are communication, commitment and engagement, transparency, trust, responsibility, accountability, cooperation, inclusiveness, persistence, and openness to new opportunities and alliances.

III. STATEMENT OF EXPECTATIONS AND AGREEMENT

SOENGR and COE WILL:

- Facilitate a “working committee”, representative of the two units, to plan and coordinate teacher preparation and professional development courses and facilities related to STEM areas.
- Collaboratively work together to seek adequate facilities to meet the demands required for teacher preparation and professional development in STEM areas.
- Collaboratively solicit funding required to support the needed facilities and faculty for teacher preparation and professional development.
- Coordinate with school districts, industry, students, and teachers for continuous improvement of teacher preparation and professional development in STEM areas for Alaska.
- Aid the working committee in establishing an “advisory group”, representative of industry and education, to oversee the implementation and long-term support and management of K12 engineering academies.
- Work with the “advisory group” for the long-term success of these academies, and teacher preparatory and professional development activities

IV. AUTHORITY: MANAGEMENT & FINANCIAL

- It is agreed that 100% of all funding contributions will be jointly managed and accounted for by the UAA School of Engineering and the UAA College of Education.
- It is agreed that 100% of all technical contributions will be jointly managed and accounted for by the UAA School of Engineering and the UAA College of Education.
- The UAA School of Engineering and the UAA College of Education will be responsible for oversight of the MOU; monitor strategic implementation goals and objectives, monitor assessment and evaluation, and initiate improvements based on assessment and evaluation.

V. TERM OF MEMORANDUM

Effective date and termination of memorandum:

- A) This MOU shall become effective upon date of final signature and shall remain in effect until all parties agree otherwise.
- B) This MOU may be amended in writing at any time by mutual agreement of the parties.

- C) Any party may cancel their participation in this MOU by giving a sixty (60) day written notice to the other parties. In such case, termination by one or more of the parties to this MOU does not alter the terms or obligations of the other parties to this MOU.

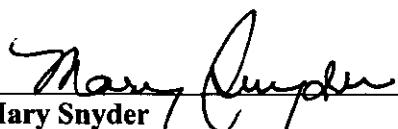
THIS MEMORANDUM OF UNDERSTANDING IS A DOCUMENT OF MUTUAL INTEREST, AGREEMENT AND COLLABORATION FOR BUILDING AND SUSTAINING TEACHER PREPARATION AND PROFESSIONAL DEVELOPMENT IN STEM RELATED AREAS FOR PROVIDING QUALITY STEM COURSES TO ALASKA'S PUBLIC SCHOOLS, AND CONSISTING OF PARTIES, PURPOSE AND VALUES, EXPECTATIONS AND AGREEMENT, FINANCIAL OBLIGATIONS, AND TERM, IN THE WITNESS WHEREOF, is executed by the persons signing below, representing the interests of said parties who have authority to execute this memorandum of understanding. The signatories will strive to reach, to the best of their ability, the objectives stated in the MOU. On behalf of the organization

I represent, I wish to sign this Alaska Teacher STEM Preparation MOU and contribute to its further development.



Rob Lang
UAA School of Engineering

2/1/10
Date:



Mary Snyder
Dean, UAA College of Education

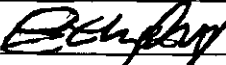
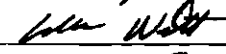

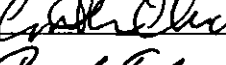

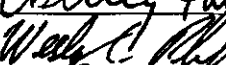
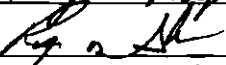
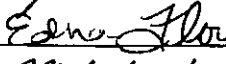
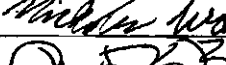


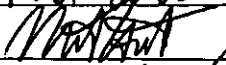
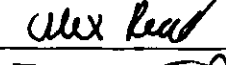
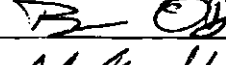

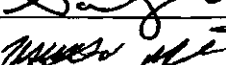




2/1/2010
Date:



On February 19, 2009, 14 UAA engineering students went to Alaska's capital in Juneau to meet with legislators about the critical need to support UAA engineering. The students met with more than 30 senators and representatives. Photo shows the students on the steps of the Capitol Building.

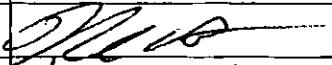
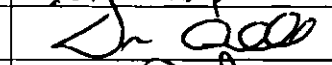
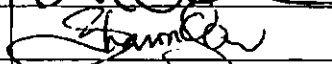

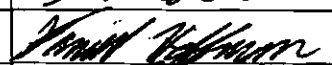

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| Name | Signature | Email or Phone Number | Date |
|--------------------|---|-----------------------|------------|
| ETHAN PERRY |  | (907) 229-7266 | 03/04/09 |
| Colleen Wilt |  | (907) 310-1254 | 03/04/09 |
| Kimi Gonzalez |  | (907) 3100-9210 | 3/4/09 |
| CHADY CLUCKER |  | 907-529-7335 | 3/4/09 |
| Brandon Telford |  | 907-841-4339 | 3/4/09 |
| ASHLEY FAIRBANKS |  | 907-8744-8224 | 3/4/09 |
| WESLEY PHELPS |  | 907-299-4299 | 3/4/09 |
| Rusty Allen |  | 907-880-9004 | 3/4/09 |
| Edna Flores |  | 907 441 8506 | 3/4/09 |
| Nicholas Warton |  | 907-394-2833 | 3-4-09 |
| Jennifer Brown |  | 907-230-0809 | 3/4/09 |
| BRITTANY BARKSHIRE |  | 907-244-3045 | 3/4/09 |
| Michael Andrew |  | 907-980-1645 | 3-4-09 |
| Michael Himler |  | 907-317-4474 | 3-4-09 |
| ALEX READ |  | 907-632-7633 | 3-4-09 |
| BRNAN O'DOWD |  | 907-223-6259 | 3-4-09 |
| Maheer AbouEid |  | 907-350-6777 | 3-6-09 |
| Galen Jones |  | (907) 830-4364 | 3/6/09 |
| Matthew Majoras |  | (907) 244-3994 | 3/6/09 |
| STEVEN CLARE |  | (907) 440-4919 | MAR 6 2009 |

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| Name | Signature | Email or Phone Number | Date |
|------------------|---|---------------------------|----------|
| Michael Bahut |  | doogm@yaho.com | 18/06/09 |
| Tessa Kara | Jessam Kara | astmike@uaa | 3-18-09 |
| Benjamin Walker | Ben Walker | wbh1ma@hotmail.com | 3-18-09 |
| Seth Campbell | Seth Campbell | asuc9@uaa.alaska.edu | 3/18/09 |
| DREW Collins |  | DREW_motohead@hotmail.com | 3.18.09 |
| Brian Oliver | BNO | 928-814-3766 | 3/18/09 |
| Sharon Oyao |  | sfoyao@gmail.com | 3/18/09 |
| Ossip Camakali |  | asac@uaa.alaska.edu | 3/18/09 |
| Thomas Van Thiel | Thomas Van Thiel | tvanthiel@gmail.com | 3/18/09 |
| Courtney Kelly | Cherry | court.kell@gmail.com | 3/18/09 |
| James Jobkar | Jim Jim | asjrj2@uaa.alaska.edu | 3-18-09 |
| Dustin Coolidge | Dustin Coolidge | Dustin Coolidge@gmail.com | 3-18-09 |
| Daniel Hoffman |  | asdjh46@uaa.alaska.edu | 3/18/09 |
| Max Greenstein | Max Greenstein | maxgreenie21@yahoo.com | 3/18/09 |
| TienChing Peng |  | astp17@uaa.alaska.edu | 3/18/09 |
| Truman Edin | Truman Edin | astye2@uaa.alaska.edu | 3/18/09 |
| Kristine Sy | Kristine Sy | askb57@uaa.alaska.edu | 3/18/09 |
| Taylor Karnikis | Taylor Karnikis | astmk19@uaa.alaska.edu | 3/18/09 |
| Mike Rudd | Michael Rudd | asmjr32@uaa.alaska.edu | 3/18/09 |
| Kyle Menzel | Kyle Menzel | askml8@uaa.alaska.edu | 3-18-09 |

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| Name | Signature | Email or Phone Number | Date |
|----------------------------|-----------|--------------------------|-----------|
| BRIAN SHUMAKER | | brian@beadedstream.com | 3/16/09 |
| Donald G. Kinney | | dgkinney@alaska.net | 3/16/09 |
| ROBERT LIMSTROM | | asrol1@uaa.alaska.edu | 3-16-09 |
| Qiang Li | | aspl@uaa.alaska.edu | 3/16/09 |
| RUEL C. BINONKANGAN | | asrcb20@uaa.alaska.edu | 3/16/09 |
| Magdalena Budzyn-Kalcewska | | mcalaenar@o2.pl | 3/17/09 |
| Christopher Wiche | | wc.ho.uuc@uaa.alaska.edu | 3/17/09 |
| AUDREY ALSTROM | | asada12@uaa.alaska.edu | 3/17/2009 |
| Kartezhnikova Maria | | asmek16@uaa.alaska.edu | 03/17/09 |
| Cory Morse | | ascjms5@uaa.alaska.edu | 3/17/09 |
| Lee Bolling | | asljb37@uaa.alaska.edu | 3/17/09 |
| Ryan Smiley | | asrds24@uaa.alaska.edu | 3/17/09 |
| LORETT NABONG | | alorl@uaa.alaska.edu | 3/17/09 |
| Taylor Harper | | astjh36@uaa.alaska.edu | 3/17/09 |
| Brice Conklin | | asbhc1@uaa | 3/17/09 |
| ETHAN PERRY | | asejp5@uaa | 3/17/09 |
| Rangel Soriano | | asrcs13@uaa.alaska.edu | 3/17/09 |
| Isabu Njoo | | asibn@uaa.alaska.edu | 3/17/09 |
| Peter Yoo | | 907) 223-0448 | 3/17/09 |
| Richard Regacho | | (907) 227-2824 | 3/17/09 |
| Olga Yaguchina | | (907) 441-2990 | 3/17/09 |
| Nicholas Warten | | asnjw5@uaa.alaska.edu | 3/17/09 |

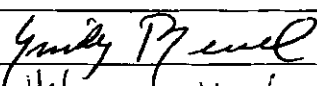
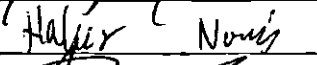
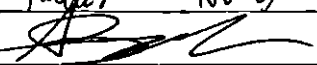

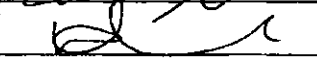
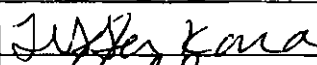

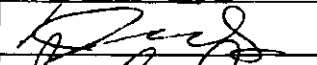

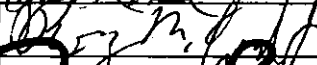


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| Name | Signature | Email or Phone Number | Date |
|------------------------|-----------|-----------------------------------|----------|
| STEPHANIE PLATE | | issjm2@UAA.AKSTATE.EDU | 3-6-09 |
| Hugh Keogh | | (907) 227-1665 | 3/6/2009 |
| DOVAD R. JOURDIAN | | ekvthqd@mtkonline.net | 3/6/09 |
| Inho Chung | | (907) 947-9574 | 3/6/09 |
| Leif Wycoff | | 907-373-6330 | 3/6/09 |
| Ivan Chikigak-Steadman | | ivan@uaa.alaska.edu | 3/6/09 |
| Benjamin Still | | 907-230-9897 | 3/6/2009 |
| Lee Bolling | | 907-301-5935 | 3/6/09 |
| R. LANCE OVERSTREET | | 907-748-2936 | 3/6/09 |
| David Cooper | | 907 230 9211 | 3/6/09 |
| Robert DeVassie | | 907 269-0587 | 3/6/09 |
| STEVEN BENTZ | | 907-715-7045 | 3/6/09 |
| WILL KEMP | | 907-301-4012 | 3/6/09 |
| GARRETT YAGER | | 907-334-0960 | 3/6/09 |
| Leslie Howard | | 907-301-7823 | 3/6/09 |
| TRAVIS BRADSHAW | | 907-738-4024 | 3/6/09 |
| Andrew Cochran | | acochrane@gmail.com | 3/6/09 |
| Devki White | | 727-1716 asddw3@uaa.alaska.edu | 3/6/09 |
| Jamie Marunde | | vsjmm9@uaa.alosr.edu | 3/6/09 |
| JAMES HAYDEN | | LIVEZFISH@AOL. | 3/6/09 |

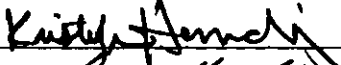
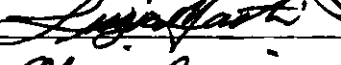
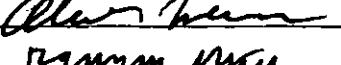
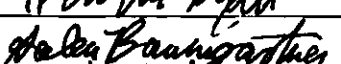

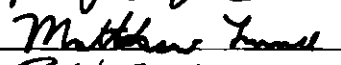
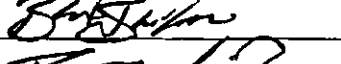
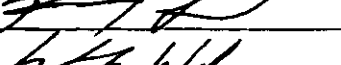
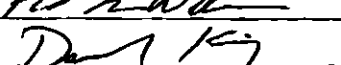

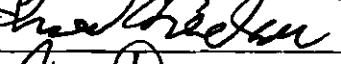
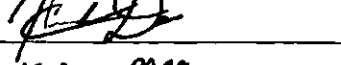

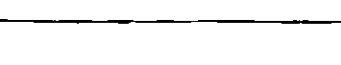
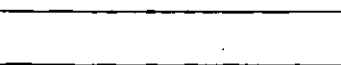
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| Name | Signature | Email or Phone Number | Date |
|-----------------|---|-----------------------|---------|
| Emily Brassard |  | 907-830-2644 | 3/17/09 |
| Halvor Norris |  | 907-841-4644 | 3/17/09 |
| ALEX BANTISTA |  | 217-301-9212 | 3/17/09 |
| Elliott Larsen |  | 907-632-1949 | 3/18/09 |
| Rachel Kidwell |  | 920-542-1015 | 3/18/09 |
| Tessa Kara |  | astmk4@uaa | 3/18/09 |
| Jacob Sutton |  | jacobsutton-05@uaa | 3/18/09 |
| Jun Mendoza |  | 907-340-8891 | 3/18/09 |
| Jessica Angel |  | 907-339-0184 | 3/18/09 |
| Roy M. Cord |  | 907-868-7314 | 3/18/09 |
| Richard Regacho |  | 907-227-2804 | 3/18/09 |
| Malissa Susin |  | 907-723-1404 | 3/18/09 |
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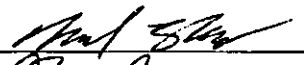

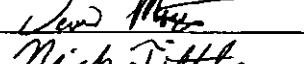
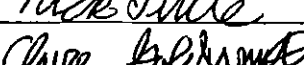
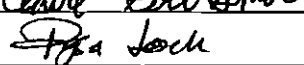
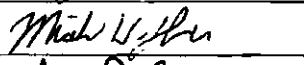
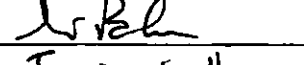
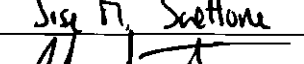
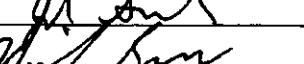
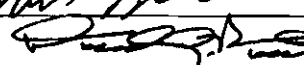
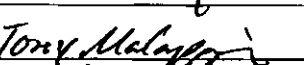


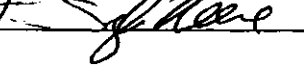
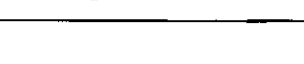

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| Name | Signature | Email or Phone Number | Date |
|--------------------|---|----------------------------|---------|
| KRIS HOMERONG |  | 947.2260 | 3/20 |
| LIISIA MARTIN |  | liisia08@hotmail.com | " |
| Avin Morris |  | avin.morris@gmail.com | " |
| Branton Maxwell |  | brantonmaxwell@comcast.com | 3/20 |
| Galen Baumgartner |  | iq3raq@gmail.com | 3/20 |
| WALTER L. GRAHAM |  | aswg60@alaska.edu | 3/20 |
| Matthew Lund |  | mathe.lund@gmail.com | 3/20 |
| Blaine Shillington |  | blshillington@gmail.com | 3/20 |
| RONNY LUND |  | 982-3217 | 3/20 |
| Forest Rose Walker |  | 752-0596 | 3/20 |
| DANIEL KING |  | 903-6693 | 3/20 |
| Eric Somerville |  | 349-5070 | 3/20 |
| Drew Nielson |  | 350-1745 | 3/20 |
| Hanh Do |  | 907-748-6507 | 3/20/09 |
| Stephanie Phillip |  | asrpf4@uaa.alaska.edu | 3/20 |
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| Name | Signature | Email or Phone Number | Date |
|-------------------|---|------------------------|---------|
| Michael Lloyd |  | asmpl3@uaa.alaska.edu | 3/19/09 |
| BRIAN LOGAN |  | usb1114@uaa.alaska.edu | 3/14/09 |
| Derin Monton |  | asdp11@uaa.alaska.edu | 3/19/09 |
| Nick Tittle |  | asnjt9@uaa.alaska.edu | 3/19/09 |
| Chaire Goldsmith |  | ascag72@uaa.alaska.edu | 3/20/09 |
| Pysa Lock |  | asrl15@uaa.alaska.edu | 3/20/09 |
| Michael Sheu |  | asmw11@uaa.alaska.edu | 3/20/09 |
| James Palencar |  | asjpp6 | 3/20/09 |
| Jose M. Snettone |  | ussms@uaa.alaska.edu | 3/20/09 |
| John Sittan |  | asjts25@uaa.alaska.edu | 3/20/09 |
| Nick Barnes |  | skidoo06@hotmail.com | 3/20/09 |
| DOUGLAS BONITO |  | vstob4@uaa.alaska.edu | 3/20/09 |
| Anthony Malapanis |  | 907-715-9656 | 3/20/09 |
| Jacob Clark |  | jsjcc@uaa.alaska.edu | 3/20/09 |
| John Gilliland |  | 717-578-7391 | 3/20/09 |
| Tyler Keene |  | 907-351-9723 | 3/20/09 |
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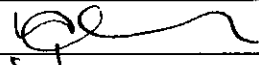
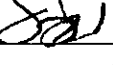
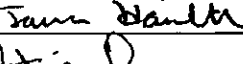
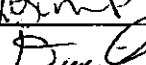
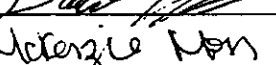
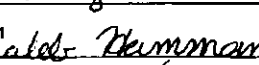
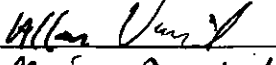

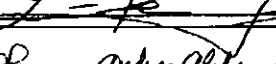
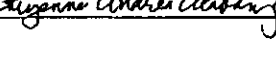
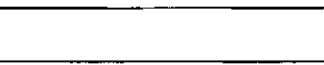
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| Name | Signature | Email or Phone Number | Date |
|--------------------|-----------|-------------------------|--------|
| Carolyn Stone | | 907-529-2528 | 3/2/09 |
| Sharon Ojao | | 907-382-8773 | 3/2/09 |
| Theresa G. Jehle | | astgj2@uaa.alaska.edu | 3/2/09 |
| Raphael Wunderle | | asrw14@uaa.alaska.edu | 3/3/09 |
| Cony Fetters | | csccof33@uaa.alaska.edu | 3/7/09 |
| Kelly Thomson | | 907 586 1363 | 3-4-09 |
| Erik Russell | | EMPRussell@gmail.com | 3/4/09 |
| Korey Hughes | | askmh66@uaa.alaska.edu | 3/4/09 |
| Phil Hayes | | 207-382-7708 | 3/4/09 |
| Chris Amstle | | 907 317 2015 | 4/2/09 |
| Vilvaumbathar | | 907 386 4007 | 4/2/09 |
| ALEXANDER BAUTISTA | | 907-381-9212 | 3/4/09 |
| Deborah Morales | | 830-1436 | 3/4/09 |
| Jacob Schultz | | 617-7458 | 3/4/09 |
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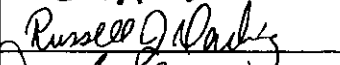
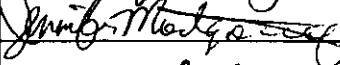
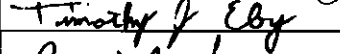
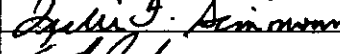



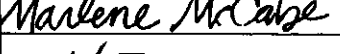
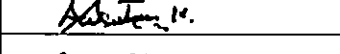
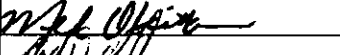
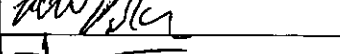
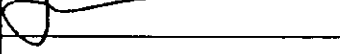
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| Name | Signature | Email or Phone Number | Date |
|--------------------|---|-------------------------------|----------|
| Rachel Kidwell |  | astbkb@uaa.alaska.edu | 3/6/09 |
| Joseph BORDANSKI |  | asjbs31@uaa | 3-6-09 |
| Tanner Hamilton |  | tan-man@hotmail.com | 3/6/09 |
| Justin Phillips |  | justinphillips@uaa | 03/06/09 |
| David Eguires |  | Deguires@gmail.com | 3/6/09 |
| Mckenzie MOSS |  | asmobm18@uaa.alaska.edu | 3/6/09 |
| Caleb Hamman |  | pserk7@uaa.alaska.edu | 3-6-09 |
| Allen Vance |  | allen.vance@alaska.edu | 3/6/09 |
| Michael Dalsfoelst |  | asmsd10@uaa.alaska.edu | 3/6/09 |
| TrenChang Peng |  | astp17@uaa.alaska.edu | 3/6/09 |
| CHEYENNE ALABANZAS |  | ascaala@uaa.alaska.edu | 03/06/09 |
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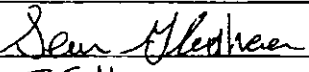
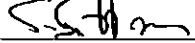
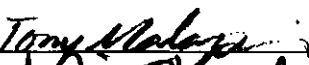
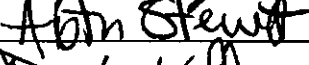
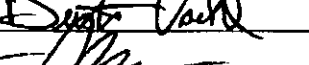
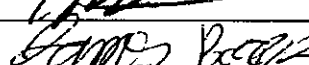
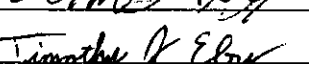
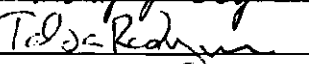

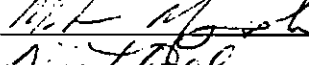

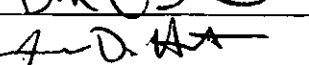


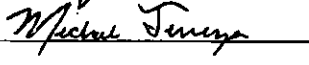
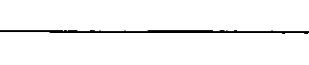
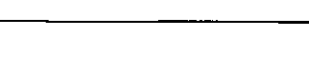
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| Name | Signature | Email or Phone Number | Date |
|---------------------|---|--------------------------------|---------|
| Kevin Mann |  | kevin.mann.ak@hotmail.com | 3/3/09 |
| Ben Adamstrom |  | ben_h420@live.com | 3/3/09 |
| Russell Darling |  | Russell.darling@asrcenergy.com | 3/3/09 |
| Jennifer Montgomery |  | jen.ak@hotmail.com | 3/10/09 |
| Timothy Eby |  | astje6@alaska.uoa.edu | 3/6/09 |
| Leslie F. Simmons |  | rodles@ptialaska.net | 3/6/09 |
| ERIK JUDSON |  | erjudson@gmail.com | 3/6/09 |
| JARED TEE |  | jared@teeboys.com | 3/6/09 |
| Arthur Stevens |  | astevens5@mac.com | 3/6/09 |
| Marlene McCabe |  | ammtm1 | 3/6/09 |
| Alberto Cristofano |  | alberto-1905@imail | 3/6/09 |
| Melissa Kittkun |  | melissakittkun@yahoo.com | 3/6/09 |
| Michael Paulsen |  | asmap58@uaa.alaska.edu | 3/6/09 |
| John Fisher |  | jfisher215@gmail.com | 3/6/09 |
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|--------------------|---|------------------------------------|------------|
| Sean Glasheen |  | Sean_Glasheen@hotmail.com | 3-2-09 |
| Stephen Sutton |  | assslo8@uaa. ^{alaska} edu | 3-2-09 |
| Anthony Malapanis |  | malapanis@gmail.com | 3/3/09 |
| Austin Stewart |  | asaas2@uaa.alaska.edu | 3/3/09 |
| Dustin Voehl |  | dusten.dcv@gmail.com | 3/3/09 |
| TIM KIRK |  | astk13@uaa.alaska.edu | 3/3/09 |
| James Boggs |  | jsj1114@uaa.edu | 3/3/09 |
| Timothy Eby |  | astje6@uaa.alaska.edu | 3/3/09 |
| TALISA RODRIGUES |  | fstmr@uaa.alaska.edu | 3-3-09 |
| CHEYENNE ALABANZAS |  | asca19@uaa.alaska.edu | 04/03/2009 |
| MIKE MARYJANKOWSKI |  | memem88@UAA.ALASKA.EDU | 03/03/2009 |
| TJIA OZOLS |  | vst102@uaa.alaska.edu | 3/3/09 |
| Brian Oliver |  | briandoliver20@hotmail.com | 3/3/08 |
| JAMES HART |  | vsjdh8@uaa.alaska.edu | 3/4/08 |
| Eric Huston |  | aseah42@uaa.alaska.edu | 3/4/08 |
| Corey Roche |  | ascr27@uaa.alaska.edu | 3/4/08 |
| Michael Tencza |  | asmgt5@uaa.alaska.edu | 3/4/09 |
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| Kali Korach | | Kali.Korach@gmail.com | 3/3/09 |
| Eric Snyder | | ASESS13@UAA | 3/3/09 |
| DUSTIN L. SMITH | | d.leverett.smith@gmail.com | 3/8/09 |
| ALEX JOHN PAUL BERGERON | | a.j.bergeron@gmail.com | 3/3/09 |
| HUFF, Zachary T | | zhellbilly@yahoo.com | 3/3/09 |
| Michael Dalsfoist | | mikee.dalsfoist407@gmail.com | 3/3/09 |
| Shelley McCoy | | vssam8@uaa.akstate.edu | 3/3/09 |
| Brian Slater | | asbas33@uaa.alaska.edu | 3/3/09 |
| SIAMM TAKAK | | 907-764-5287 | 3/3/09 |
| Tim Hickman | | 907-441-5552 | 3-3-09 |
| Bjorn Olsen | | an_undeniable_ending@yahoo.com | 3/3/09 |
| IRENE TURLETES | | i.turletes@gmail.com | 3/03/2009 |
| Kristin Coward | | k-coward@hotmail.com | 3/3/09 |
| Patrick Hoogier | | Aspeha@uaa.alaska.edu | 3-3-09 |
| Matt DeRaere | | asmzd@uaa.alaska.edu | 3/5/09 |
| LINDSAY CALLINSKY | | callinsky@gmail.com | 3/3/09 |
| BRIAN LOGAN | | brian.logan@uaa.ak.edu | 3/3/09 |
| Logan Imlach | | astai4@uaa.ak.edu | 3/3/09 |
| JEFF EIDE | | asjce8@uaa.ak.edu | 3/3/09 |
| Patrick Gearly | | aspsg5@uaa.ak.edu | 3/3/09 |

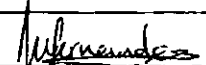
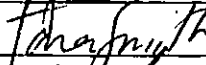
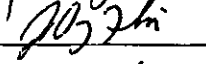
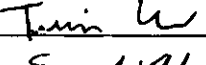
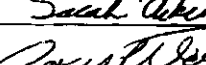
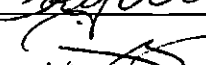
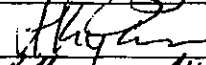
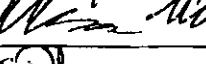

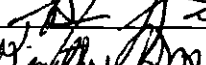
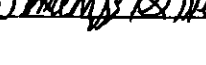
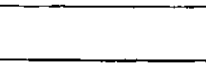
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| Name | Signature | Email or Phone Number | Date |
|----------------------|-----------|--------------------------------|------------|
| KELVIN WOODÉ | | (907) 952-1805 | 03/02/09 |
| Brian Gwaltney | | 764-9014 | 3/2/09 |
| RYAN P. STARR | | ryanpstar@gmail.com | 3/2/09 |
| Stephanie Keddington | | stephanie.keddington@gmail.com | 3/2/09 |
| Eric Hershey | | efhershey@gmail.com | 3/2/09 |
| DANE KETNER | | daneketner@gmail.com | 3/2/09 |
| Tim Hickman | | tim_hickman@hotmail.com | 3-2-09 |
| Michel Maquito | | maquito@uua.alaska.edu | 3-2-09 |
| James Kase | | asjd4@uua.alaska.edu | 3-2-09 |
| Jesse Mae | | the-maes@hotmail.com | 03/02/09 |
| Lee Pendegrift | | aslrp7@uua.alaska.edu | 3/2/09 |
| Jacob Thompson | | asjpr12@hotmail.com | 3/2/09 |
| FINN OESTGAARD | | finnius-maximus@hotmail.com | 3-2-09 |
| Brian Glasheen | | asbpg1@uua.alaska.edu | 3-2-09 |
| Gan Wu | | ganwu@uua.alaska.edu | 03/02/09 |
| Sarah Nichols | | assen6@uua.alaska.edu | 3-2-09 |
| CHRISTINA PARKINSON | | christie@e-nimbus.com | 03/02/2009 |
| Joe A. Bryant | | isjob8@uua.alaska.edu | 03/02/2009 |
| Michelle T. Kelly | | asmtk4@uua.alaska.edu | 03/02/09 |
| Neil McMahon | | asnem1@uua.alaska.edu | 3/2/09 |
| Russell Darling | | asrjd4@uua.alaska.edu | 3/2/09 |
| OREST HARKALCZ JR | | AS30H@uua.alaska.edu | 3/2/09 |

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| Name | Signature | Email or Phone Number | Date |
|-------------------|---|-------------------------|---------|
| Magnuma Fernandes |  | 401-374-6706 | 3-17-09 |
| TANA SMITH |  | astms43@uaa.alaska.edu | 3/17/09 |
| John D Franklin |  | 907 306 2939 | 3/17/09 |
| Tavis Lee |  | 907 345 6601 | 3/17/09 |
| Sarah Aiken |  | assea13@uaa.alaska.edu | 3/17/09 |
| Cory Wardrope |  | corywardrope@gmail.com | 3.17.09 |
| Joy Riley |  | asjtr9@uaa | 3.17.09 |
| Andrey Kyselov |  | asask14@uaa.alaska.edu | 3.17.09 |
| Reuben Mikes |  | reuben.mikes@gmail.com | 3/17/09 |
| Eric Rodgers |  | erodgersmusic@gmail.com | 3.17.09 |
| Alex Kaplan |  | 907 830-6258 | 3.17.09 |
| Tim Menard |  | astsm12@hotmail.com | 3.17.09 |
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To: Governor Sarah Palin and Alaska State Legislators

We, the undersigned engineering students of University of Alaska Anchorage urge the state to support funding for the expansion of our engineering department with a new engineering building. We have over 900 engineering students and are still growing. A UAA engineering student has one third the space that an engineering student has on the national average. The engineering students in Anchorage are obligated to reside in Anchorage because our jobs are located in Anchorage and we have to work to support our families, pay for school, and gain experience in our field. We, the engineering students of UAA, thank you for your valuable time and consideration.

| Name | Signature | Email or Phone Number | Date |
|-------------------|-------------------|-----------------------------|---------|
| Natasha Hayden | Natasha M. Hayden | Natasha.b@uci.net | 3/5/09 |
| O A. ABAZA | | ofoad@uaa.alaska.edu | 3/17/09 |
| Ronan J. Yeaman | | asrjye@uaa.alaska.edu | 3/17/09 |
| Bradley Jackson | | asbj@uaa.alaska.edu | 3/17/09 |
| John Fisher | | Jfisher215@gmail.com | 3/17/09 |
| Jordan Martin | | asjrm63@uaa.alaska.edu | 3/17/09 |
| GREEN James | | akrepublican@gmail.com | 3/17/09 |
| Brenton R. Porter | | Brenton.R.Porter@bres.net | 3/17/09 |
| John Maguire | | 978-400-8127 | 3/17/09 |
| Ken Hayes | | Ken.Hayes@hotmail.com | 3-17-09 |
| | | moseslovesyon@hotmail.com | 3/17/09 |
| Hayden Amsden | | ahstra@uaa.alaska.edu | 3/17/09 |
| Brendan Flaherty | | bafest@mtaonline.net | 3/17/09 |
| DAVID FAIR | | davidfair@mac.com | 3/17/09 |
| Kirstie McPherson | | askdm30@uaa.alaska.edu | 3/17/09 |
| Murvin McDonald | | mcdonald_murvin@hotmail.com | 3/17/09 |
| Trevor Majors | | cougar74@usa.com | 3/17/09 |
| Jon Cutchfield | | j.cutchmeister@gmail.com | 3/17/09 |
| JONATHAN LO | | | 3/17/09 |
| Kristine Sy | | | |

To: Governor Sarah Palin and Alaska State Legislators

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| Name | Signature | Email or Phone Number | Date |
|-------------------|-----------|-----------------------|---------|
| James Gwynn | | 382-1455 | 3-17-09 |
| DANE KETNER | | 529-7585 | 3-17-09 |
| JAMES MARSHALL | | 229-4254 | 3-17-09 |
| Mike Miller | | 632-0827 | 3/17/09 |
| Kyle Menzel | | 240-4471 | 3-17-09 |
| Timothy Risi | | 350-4732 | 3-17-09 |
| Sunil Panthi | | 310-7376 | 3-17-09 |
| Matthew Lund | | 3607372 | 3/17/09 |
| ROAN BAGUYOS | | 947-2167 | 3/17/09 |
| Gleg Bagal | | 344-3415 | 3/17/09 |
| Wiley Jones | | 863-5001 | 3/17/09 |
| Angus Bromaghin | | 336-0186 | 3/18/09 |
| Dae Kim | | 884-0251 | 3/18/09 |
| Eric Ross | | 903-8388 | 3.18.09 |
| Joseph Daley | | 688-4600 | 3/18/09 |
| TROY M. WILKINSON | | 947-0659 | 3/18/09 |
| Tim Vance | | 748-0674 | 3/18/09 |
| Bradley Lund | | 522-3642 | 3/18/09 |
| Cheryl Maillette | | cmail621@gmail.com | 3/18/09 |
| Tim Menard | | ASTSM12@UAA.NA.AL | 3/18/09 |

New UAA Engineering Building Provides Critically Needed Missing Labs

- Currently, there is approximately 10,000 sq. ft. of laboratories for the UAA undergraduate engineering programs.
- The new engineering building would provide labs that currently do not exist but are critically needed to sustain the engineering programs.
- The new engineering building would provide labs that students need to learn fundamental engineering concepts, and to design projects and obtain engineering skills that are applicable in Alaska and highly desired by industry.

New UAA Engineering Building – 70,000 GSF Provides Critically Needed Missing Labs

| | | | | |
|---|---|---|--|--|
| | ME: Main Fluids Lab | GEO: Land Surveying Lab | GEO: Photogrammetry Lab | ME: Hydroelectric Lab |
| EE: Communications Lab | Current Engineering Labs: 10,000 Sq. Ft. <i>Labs List</i> 2 small EE labs 1 small fluids lab 1 small soils lab 4 computer labs 1 surveying lab | | ME: Controls Lab | CE: Environmental Engineering Lab |
| EE: Basic Fundamentals Lab | | | ME: Corrosion & Materials Lab | CE: Port & Coastal Engineering Lab |
| EE: Utility Power & Transmission Lab | | | ME: Machine Design Lab | ME: Wind Generation Engineering Lab |
| Equipment Maintenance Lab/Shop | | | ME: Machine Lab/Shop | ME: Injection Molding & Rapid Prototype Lab |
| CE: Transportation & Highway Lab | | | ME: HVAC Lab | ME: Metal Milling and Lathing Lab/Shop |
| | | | ME: Heat & Mass Transfer Lab | ME: Wood Projects Lab/Shop |
| CE: Foundations Lab | | CE: Seismic & Earthquake Lab | CE: Soil Mechanics Lab | |

New UAA Engineering Building - 50,000 GSF Provides Critically Needed Missing Labs

| | | | |
|--------------------------------------|--|------------------------------|-------------------------------|
| | ME: Main Fluids Lab | GEO: Land Surveying Lab | GEO: Photogrammetry Lab |
| EE: Communications Lab | Current Engineering Labs: 10,000 Sq. Ft. <i>Labs List</i> 2 small EE labs 1 small fluids lab 1 small soils lab 4 computer labs 1 surveying lab | ME: Controls Lab | ME: Corrosion & Materials Lab |
| EE: Basic Fundamentals Lab | | ME: Machine Design Lab | |
| EE: Utility Power & Transmission Lab | | ME: Machine Shop | |
| Equipment Maintenance Lab/Shop | | ME: HVAC Lab | |
| CE: Transportation & Highway Lab | | ME: Heat & Mass Transfer Lab | |
| CE: Foundations Lab | CE: Seismic & Earthquake Lab | CE: Soil Mechanics Lab | |

Alaska Secondary Engineering Academies
MEMORANDUM OF UNDERSTANDING (MOU)
BETWEEN
ALASKA PROCESS INDUSTRY CAREERS CONSORTIUM (APICC),
UNIVERSITY OF ALASKA (UAA, UAF, UAS),
ALASKA DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT (AK DOLWD)
AND
ALASKA DEPARTMENT OF EDUCATION AND EARLY DEVELOPMENT (AK DEED)

I. PARTIES OF THE MEMORANDUM

The parties of the memorandum of understanding are:

- A. ALASKA PROCESS INDUSTRY CAREERS CONSORTIUM (APICC)
- B. UNIVERSITY OF ALASKA (UAA, UAF, UAS)
- C. ALASKA DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT (AK DOLWD)
- D. ALASKA DEPARTMENT OF EDUCATION AND EARLY DEVELOPMENT (AK DEED)

II. STATEMENT OF PURPOSE AND VALUES

The purpose of this Memorandum of Understanding (MOU) is to articulate the collaborative efforts of APICC, UA, AK DOLWD, and AK DEED to plan, solicit and coordinate funding and technical contributions for engineering academies for secondary schools in Alaska.

This MOU represents the joint understanding of each entity to better serve all secondary students in Alaska, contribute to local workforce development and economic prosperity, and mutually benefit the missions of our organizations.

The entities participating in this MOU will work to ensure the expansion of secondary engineering academies that will accommodate all Alaska secondary students.

The engineering academies resulting from this collaborative effort will provide students with programs of study that culminate in successful high school to college transitions for students in science, technology, engineering, mathematics, and related career fields.

Our Values in this collaboration are communication, commitment & engagement, transparency, trust, responsibility, accountability, cooperation, inclusiveness, persistence, and openness to new opportunities and alliances.

This MOU represents a mutual agreement to facilitate successful emerging and existing engineering academies at schools (districts) and to create new engineering academies to evolve within the initiative that will have the capacity to serve students throughout Alaska.

An "Engineering Academies Advisory Group" will be formed that will be responsible for oversight of the initiative. This group will be representative of Alaska Industries that employ significant numbers of engineers and the University of Alaska schools/colleges of engineering. This group will work with the APICC Executive Director and provide updates to the APICC Board of Directors, contributing funders and technical providers.

III. STATEMENT OF EXPECTATIONS AND AGREEMENT

APICC WILL:

- Enter into agreements with school districts interested in supporting the efforts outlined in this MOU.
- Facilitate a "working committee", representative of the MOU institutions and interested school districts, to plan and steer a project "proposal", to be solicited for financial and technical contributions (non-monetary) to initiate and support secondary engineering academies.
- Solicit initial funding to support assistance with "proposal" development.
- Coordinate the working committee to compile a "review group", representative of industry and education, to review and approve the "proposal."
- Coordinate the working committee to compile an "advisory group", representative of industry and education, to oversee the implementation and long-term support and management of secondary engineering academies.
- Coordinate the "review group" that will review, make recommendations for improvements, and approve the "proposal" prior to submission/solicitation for financial and technical contributions.
- Coordinate the submission/solicitation of the proposal to major foundation(s), industry and government entities.
- Manage the resources for participation in, support of, and continuous improvement of, secondary engineering academies; including teacher preparation.
- Work with the "advisory group" for the long-term success of these academies.

UA WILL (UAA, UAF, AND UAS):

- Work with APICC to coordinate meeting space that accommodates video conferencing capabilities for the working group, review group, and advisory group.
- Assist in the alignment of curriculum to enhance articulation to post-secondary engineering programs.
- Identify and coordinate with other/existing STEM initiatives (e.g. ANSEP).

AK DLOWD WILL:

- Work with Alaska industry toward participation in, and support for, secondary engineering academies. This supports strategic element 4.2(c) of the AGIA Training Strategic Plan.

AK DEED WILL:

- Work with Alaska's public schools toward participation in secondary engineering academies.
- Assist in the alignment of curriculum to enhance articulation to post-secondary engineering programs.
- Work to articulate secondary engineering academy courses with math and science credits required for high school graduation.
- Identify and coordinate with other/existing STEM initiatives.

PARTICIPATING SCHOOL DISTRICTS WILL:

- Commit to funding and continued support of emerging or existing engineering academies within their respective school districts.

ALL PARTIES WILL:

- Assist in the development of a proposal.
- Jointly submit/solicit the proposal for funding to major foundation(s), industry and government entities.
- Jointly submit/solicit the proposal for technical (non-monetary) contributions to major foundation(s), industry and government entities.
- Work to support the emerging and existing engineering academies.
- Support the use of these academies as models for the creation of new/additional engineering academies that are inclusive for students statewide.

IV. AUTHORITY: MANAGEMENT & FINANCIAL

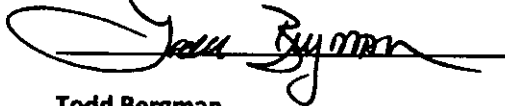
- It is agreed that 100% of all funding contributions will be managed and accounted for by APICC, with authority and oversight by the Engineering Academies Advisory Group, and the APICC Board of Directors.
- It is agreed that 100% of all technical contributions will be managed and accounted for by APICC, with authority and oversight by the Engineering Academies Advisory Group, and the APICC Board of Directors.
- The Engineering Academies Advisory Group will be responsible for oversight of the initiative; monitor strategic implementation goals and objectives (as expressed in the proposal), review and approve requests for new academies, monitor assessment and evaluation, and initiate improvements based on assessment and evaluation.

V. TERM OF MEMORANDUM

Effective date and termination of memorandum:

- A) This MOU shall become effective upon date of final signature and shall remain in effect until all parties agree otherwise.
- B) This MOU may be amended in writing at any time by mutual agreement of the parties.
- C) Any party may cancel their participation in this MOU by giving a sixty (60) day written notice to the other parties. In such case, termination by one or more of the parties to this MOU does not alter the terms or obligations of the other parties to this MOU.

THIS MEMORANDUM OF UNDERSTANDING IS A DOCUMENT OF MUTUAL INTEREST, AGREEMENT AND COLLABORATION FOR BUILDING AND SUSTAINING ENGINEERING ACADEMIES IN ALASKA'S PUBLIC SECONDARY SCHOOLS, AND CONSISTING OF PARTIES, PURPOSE AND VALUES, EXPECTATIONS AND AGREEMENT, FINANCIAL OBLIGATIONS, AND TERM, IN THE WITNESS WHEREOF, is executed by the persons signing below, representing the interests of said parties who have authority to execute this memorandum of understanding. The signatories will strive to reach, to the best of their ability, the objectives stated in the MOU. On behalf of the organization I represent, I wish to sign this Alaska Secondary Engineering Academies MOU and contribute to its further development.

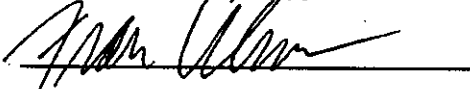


Todd Bergman

11/17/09

Date:

Executive Director, APICC



Fran Ulmer

11/17/2009

Date:

Chancellor, UAA

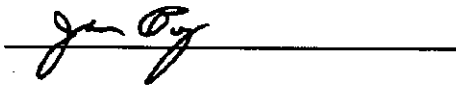


Brian Rogers

11/17/09

Date:

Chancellor, UAF



John Pugh

November 17, 2009

Date:

Chancellor, UAS



Click Bishop

11/17/2009

Date:

Commissioner, AK DLOWD



Larry LeDoux

11-17-09

Date:

Commissioner, AK DEED



UNIVERSITY of ALASKA ANCHORAGE

UAA'S SCHOOL OF ENGINEERING GROWING TO MEET ALASKA'S NEEDS

space needs

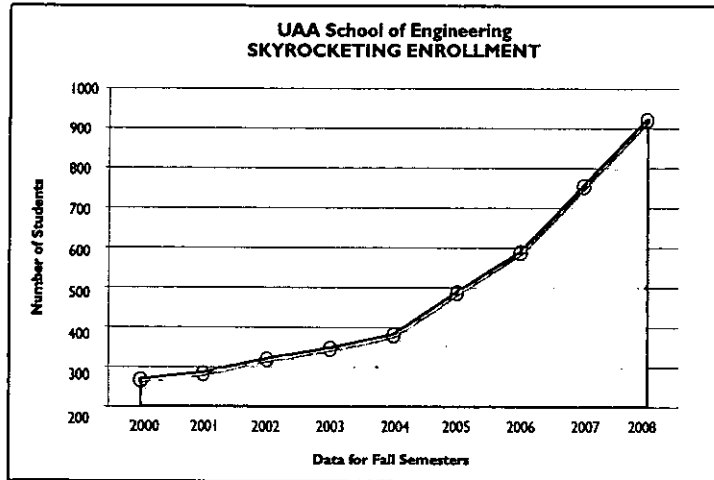
- UAA's School of Engineering currently occupies 40,000 square feet.
- A space needs analysis by ECI/Hyer, Inc. indicates the program requires a total of 200,000 square feet.
- Phase 1 Project Cost: \$85 Million.
- Total Project Cost: \$140 Million.

the facts

- UAA's School of Engineering must substantially increase its facilities and faculty to meet the needs of students that are currently enrolled.

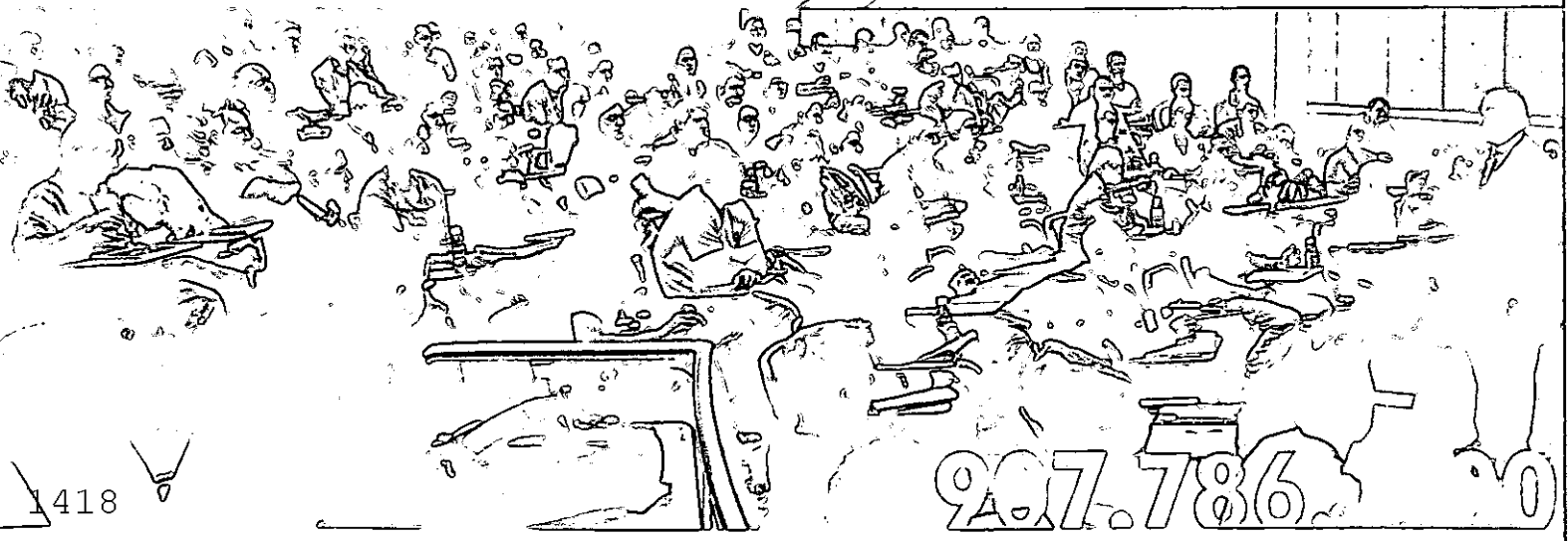
**"THIS BUILDING WOULD
PROVIDE THE PUBLIC SQUARE
FOR ENGINEERING IN ALASKA."**

~ Rob Lang, Dean of UAA School of Engineering

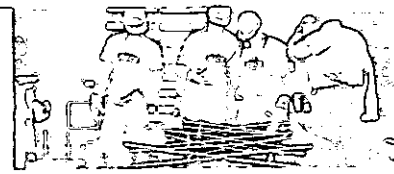


- Since 2000, UAA's School of Engineering enrollment has more than tripled.
- Phase 1 construction provides critically needed undergraduate teaching laboratories to meet current enrollment demands.
- Increased enrollments are expected with the predicted population growth for the Anchorage/Mat-Su area through 2030, and as outreach efforts are successful in attracting more students to engineering fields.

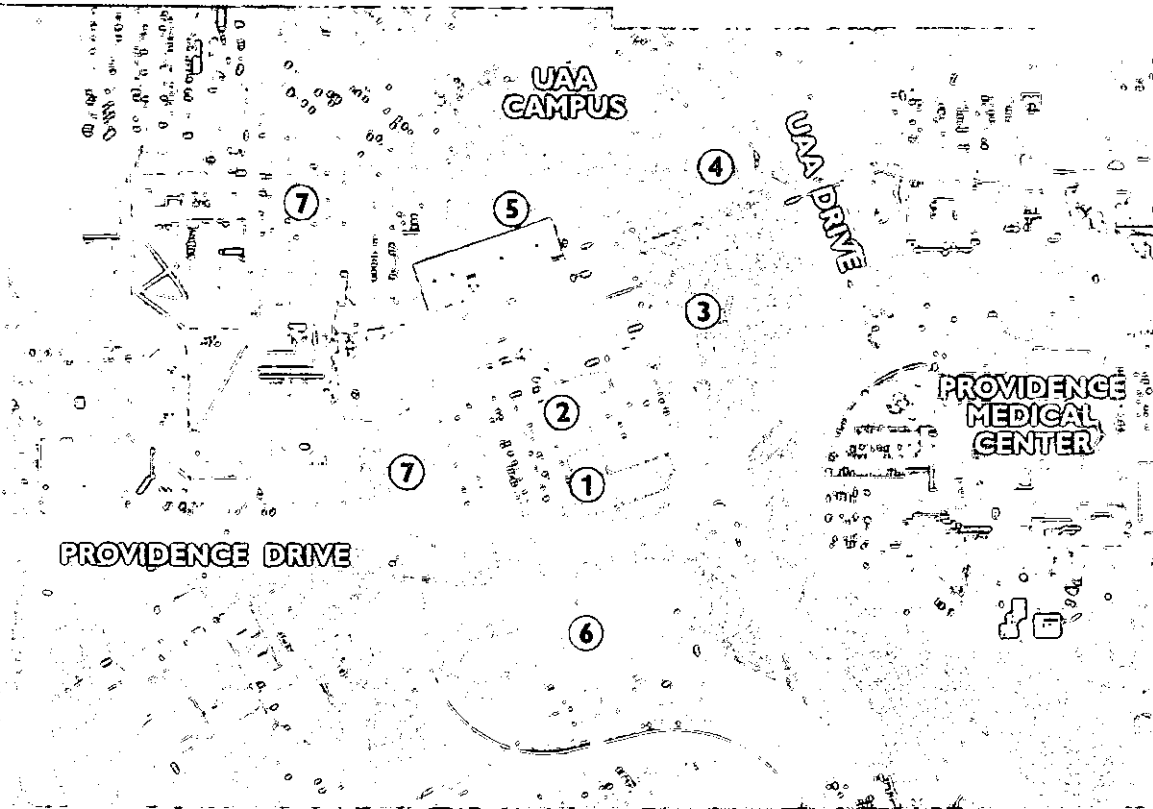
UNIVERSITY OF ALASKA ANCHORAGE | SCHOOL OF ENGINEERING
3211 Providence Drive, ENGR 201 | Anchorage, Alaska 99508 | www.engr.uua.alaska.edu



UAA'S SCHOOL OF ENGINEERING GROWING TO MEET ALASKA'S NEEDS



THIS IS AN OPPORTUNITY TO INVEST IN ALASKA'S FUTURE BY KEEPING OUR ENGINEERS LIVING & WORKING WITHIN OUR STATE.



site plan

- 1) ENGINEERING BUILDING, PHASE 1: (80,000 GSF to meet current need; basic undergraduate teaching labs, including: electronics, instrumentation, materials, fluids, photogrammetry, soils, & seismology)
- 2) ENGINEERING BUILDING, PHASE 2: (60,000 GSF to meet expected growth)
- 3) EXISTING ALASKA NATIVE SCIENCE & ENGINEERING PROGRAM BUILDING (ANSEP)
- 4) EXISTING ENGINEERING BUILDING: (40,000 GSF shared with other programs)
- 5) WELLS FARGO SPORTS COMPLEX
- 6) HEALTH SCIENCES
- 7) FUTURE CAMPUS GROWTH

facts & figures

1 | Alaska has a major shortage of engineers, ranking 49th in the nation for graduating engineers.

2 | The majority of engineering students in the State, about 60%, attend UAA with enrollments expected to grow.

3 | More than 100 companies specializing in engineering, energy, oil field development, utilities, and construction have offices within four miles of the main UAA campus.

4 | Statistics prove that 80% of engineers educated at UAA will stay in Alaska.

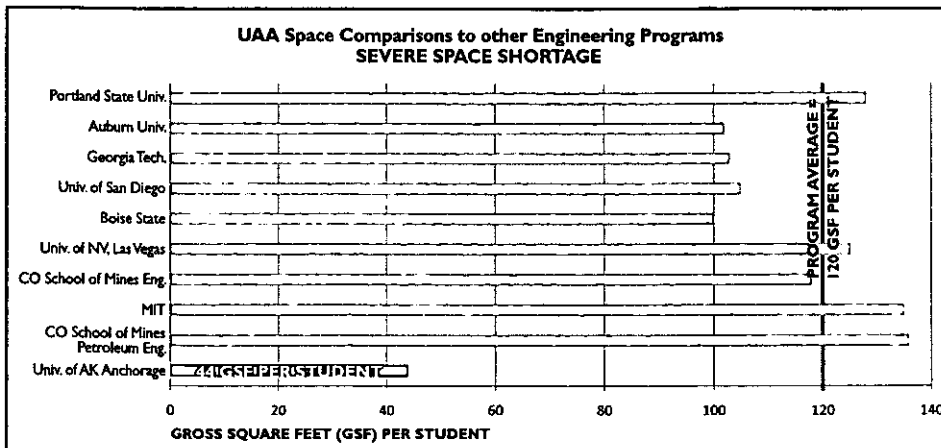
5 | Almost half of the roughly 5,000 licensed engineers in Alaska reside out-of-state reflecting the need for more Alaska grown engineers.

6 | UA instituted the Engineering Initiative to double the number of graduates to 200 per year by 2012.

7 | Alaska's industry and state agencies need approximately 400 engineers per year.

8 | Since many major industries are near UAA, students can work in job internships throughout the entire school year and during the summer.

9 | UAA's School of Engineering has students from all over Alaska and is a leader in outreach programs to rural communities.



SENATE COMMITTEE REPORT
First Committee of Referral

DATE: 1/19/10

FURTHER: Finance

Date of 5-Day Notice: _____
 (in accordance with Uniform Rule 23)

DATE TURNED
 IN TO OFFICE: 2/10/10

Education Committee considered SENATE BILL NO. 206

SB 206 APPROP UNIV ENGINEERING BUILDINGS

"An Act making special appropriations for new engineering buildings for the University of Alaska in Anchorage and Fairbanks."

and recommends:

- be replaced with SCS or CS _____ (_____)
- adopt previous SCS or CS _____ (_____)
- attached amendment(s)
- adopt _____ Letter of Intent
- further referral to _____ Committee

| | |
|--------------------------|--------------------------|
| SENATE BILL: | |
| <input type="checkbox"/> | Same Title |
| <input type="checkbox"/> | New Title |
| <hr/> | |
| HOUSE BILL: | |
| <input type="checkbox"/> | Same Title |
| <input type="checkbox"/> | Technical Title Change |
| <input type="checkbox"/> | New Title w/ SCR # _____ |

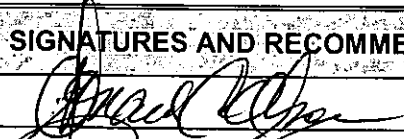
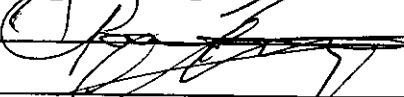
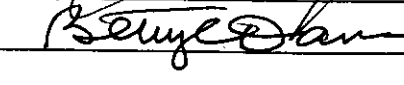
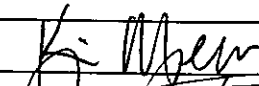

NEW FISCAL NOTE(S):

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PREVIOUS FISCAL NOTE(S):

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APPROPRIATION - no fiscal note

| SIGNATURES AND RECOMMENDATIONS: | PRINTED LAST NAME | DO PASS | DO NOT PASS | NO REC | AMEND |
|---|-------------------|-------------------------------------|-------------|-------------------------------------|-------|
|  | ALSON | | | <input checked="" type="checkbox"/> | |
|  | Huggins | <input checked="" type="checkbox"/> | | | |
|  | DAVIS | <input checked="" type="checkbox"/> | | | |
| CO-CHAIR:  | Meyer | <input checked="" type="checkbox"/> | | | |
| CO-CHAIR:  | Thomas | <input checked="" type="checkbox"/> | | | |