Agency: University of Alaska

Project Title: **Project Type:** New Construction and Land Acquisition

UAA Engineering Building Construction and Renovation

State Funding Requested: $119,200,000 **House District:** Anchorage Areawide (16-32)
One-Time Need

Brief Project Description:

UAA Engineering Facilities completion funding

Funding Plan:

Total Project Cost:	$123,200,000
Funding Already Secured:	($4,000,000)
FY2013 State Funding Request:	($119,200,000)
Project Deficit:	$0

Funding Details:

FY11 Capital Budget $4 million for planning and design

Detailed Project Description and Justification:

The UAA engineering project includes a mix of new construction and renovation of existing space. UAA provides graduate education and research in engineering and engineering-related fields to meet Alaska's needs. This project is primarily focused on the expansion of classroom and lab space for undergraduate degree production.

In August 2010, the University of Alaska contracted for a comprehensive review of the engineering student population, graduation characteristics and space requirements for the degree programs currently offered by the University of Alaska. The final program document, outlining key recommendations, was completed in the spring of 2011 and adopted by the Board of Regents and forms the basis for this request.

Alaska faces a shortage of qualified engineers. To respond to the state's need, the University of Alaska Board of Regents set a priority to more than double the annual number of baccalaureate graduates to 200 by FY14.
- The Alaska Department of Labor's current projections through 2018 indicate a minimum of 50 new licensed engineering jobs will be available each year, plus another 70 openings from annual turnover and retirement.
- Many engineers working in Alaska are non-residents - up to 35 percent in some disciplines. These employees lack education and experience in Arctic engineering principles.
- Employers prefer to hire UA graduates, as they are more likely to remain in Alaska. Graduates from both UAA and UAF are essential. Turnover rates with Alaska graduates are lower and therefore less wasteful of an employer's dollars.

UAA's facilities are cramped and out-of-date. Instructional and specialized lab space must be expanded and improved to meet the needs of today's engineering students. The facilities do not have the special purpose lab space nor the larger classrooms required for the modern engineering curricula.

Construction of UAA engineering facilities will provide space adequate to educate students to meet the 2007 Board of Regents approved Engineering Initiative.

For use by Co-chair Staff Only:

$58,600,000 Approved

4:19 PM 5/2/2012

Contact Name: Matthew Moser
Contact Number: 907-465-1887

Project Timeline:

Project Timeline	
- Limited Formal Project Approval	June 2010
- Program and Concept Designs for each MAU	Underway
- Formal Project Approval	September 2011
- Schematic Design Approval	Fall 2012
- Construction Starts	Spring 2013
- Construction Completed	Spring 2015

Entity Responsible for the Ongoing Operation and Maintenance of this Project:

University of Alaska Anchorage

Grant Recipient Contact Information:

Name:	Kit Duke, University of Alaska Statewide
Title:	Chief Facilities Officer
Address:	1815 Bragaw St. Suite 208G
	Anchorage, Alaska 99508
Phone Number:	(907)786-7781
Email:	kduke1@alaska.edu

Has this project been through a public review process at the local level and is it a community priority? [X] Yes [ ] No

For use by Co-chair Staff Only:

4:19 PM 5/2/2012

Contact Name: Matthew Moser
Contact Number: 907-465-1887

ACEC

AMERICAN COUNCIL OF ENGINEERING COMPANIES
of Alaska

February 26, 2012 Submitted via Email

Senator Johnny Ellis
Alaska State Legislature
Alaska State Capitol Building, Room 119
Juneau, Alaska 99801

Dear Senator Ellis:

The purpose of this letter is to urge you to support the continuation of funding to design and construct the necessary engineering facilities at UAA and UAF now. *The American Council of Engineering Companies Alaska Chapter supports the expansion of UA engineering facilities* for a number of reasons:

- *Engineering graduates are in high demand in this state, and the need exceeds the demand.*
- *Alaska faces a shortage of qualified engineers. To respond to the state's need, the University of Alaska Board of Regents set a priority to more than double the annual number of baccalaureate graduates to 200 by FY14.*
- *The Alaska Department of Labor's current projections through 2018 indicate an average of 50 new engineering jobs will be available each year, plus another 70 openings from annual turnover and retirement.*
- *Many engineers working in Alaska are non-residents - up to 35 percent in some disciplines. These employees lack education and experience in Arctic engineering principles.*
- *We recognize that graduates from Alaska and UA are more likely to remain in Alaska. Graduates from both UAA and UAF are essential.*

Thank you for your consideration of this request. It is important to me, our organization, our industry, and the state of Alaska.

Sincerely,
American Council of Engineering Companies of Alaska

Jeff Baker, P.E.,
President ACEC of Alaska

March 9, 2011

Senator Kevin Meyer
State Capitol Room 103
Juneau, AK 99801

RE: Support for UAA and UAF Engineering Facilities Construction Funding

Honorable Senator Meyer,

I am writing you today to request your support in meeting the critical needs for engineering related professionals in Alaska. As you may be aware, there is a tremendous demand for engineering professionals not only in our state, but nationwide. As a resource development state, Alaska must recognize the vital role that engineers, architects, surveyors and construction managers play in the development of our state. With many high profile Alaska projects planned for the future, combined with the critical need to address vital infrastructure upgrades throughout the state, the demands on our professional industry are so great that we must often look outside of the state to find professional and technical resources needed to perform the work.

I am proud to state that I am a lifelong Alaskan, having been born, raised and educated in Alaska. I earned my civil engineering degree from UAF and my MBA degree from UAA, and I have been working on engineering projects in Alaska for well over 30 years. As I advanced in my engineering and management career, I recognized the value that graduates from either UAF or UAA engineering programs had over other out-of-state graduates. Many of the projects that I have been involved with are rural in nature since I am Inupiaq from Barrow, Alaska and I have worked for Alaska Native Corporations or the North Slope Borough throughout my career. Graduates from either UAF or UAA have a fundamental understanding of the challenges of working in a rural community, whether it has to do with awareness of Alaska Native cultures, environmental extremes, permafrost or logistical challenges in construction.

Unfortunately, the University of Alaska (UA) is not meeting the current or projected needs of our engineering industry. A recent study was commissioned by the UA to look at the overall UA engineering program and it made the recommendation that both the UAA and UAF engineering programs require additional facilities to meet the demands of industry. I have heard that a Bill may be introduced soon for supporting the construction of engineering facilities at both UAA and UAF. I strongly support this effort and as one of your constituents, I would request your assistance by co-sponsoring this proposed Bill and supporting it too.

Respectfully,

Richard S. Reich, P.E.
8310 Barnett Drive
Anchorage, AK 99518
Email: Richard.Reich@UICUMIAQ.com
Phone: (907) 273-1808

Dear Representative Lynn:

As one of your constituents, I am writing to urge your support of the bill(s) now under consideration for design and construction of new facilities for the UAA School of Engineering. I am a resident of Anchorage and I am employed by URS Corporation, one of the world's largest engineering and environmental consulting firms. URS and its predecessors (Woodward-Clyde and Dames & Moore) trace their Alaskan presence to the late 1950s. I have been a registered professional engineer in Alaska since 1977 and I have been a member of the UAA School of Engineering Dean's Advisory Board for several years.

For the past 31 years I have been in the engineering and environmental consulting business in Alaska, and thus an employer of engineers. For the 16 years prior to my consulting career, I was a professor on the faculties of three universities, including four years at UAF and more than a decade as an adjunct professor of engineering at UAA, so I also know something about the "business"of educating future engineers.

As noted above, the purpose of my letter to you is to urge your support of the UAA School of Engineering. I speak to you as one of your "customers" because I am part of the professional community that has a growing need for a steady supply of engineers who are well-educated and "Alaska-smart."

For all of my consulting career I have been an employer of engineers. I have strived always to hire engineers who have been educated in Alaska, before importing engineers from "Outside." I do this because I know that engineers educated at both UAA and UAF are well-founded in the fundamentals and because they have already been introduced to the special requirements of engineering design and construction in Alaska. Engineers who are imported from "Outside" are generally not informed of the unique aspects of engineering for Northern applications, let alone the special requirements of the Arctic.

We need to improve our capability to educate engineers within Alaska. Both UAA and UAF engineering programs are woefully underequipped. To remedy their deficiencies will require capable faculty and modern facilities. Of course, this requires investment, and that requires your support. This is not a UAA versus UAF decision because both require all the support that the State can provide. However, the situation at UAA is more dire because of the recent rapid growth of the engineering programs there and the extreme shortage of adequate space and laboratory facilities to provide up-to-date and forward-looking education to our engineering students. It has likely been brought to your attention that the national average for laboratory

space for engineering instruction is about 120 sq. ft. per student, while at UAA the average is only about 44 gross square feet per engineering student.

There is before you a proposal to construct a new building to support UAA engineering. Please give it your full and enthusiastic support. Please urge your legislative colleagues to do the same. If you need assurance that the accelerated interest and growth in UAA engineering will be sustained, please talk to the local engineering community, of which I am but one representative. You will find ample assurance that the growth we have seen in the UAA engineering program is sustainable.

Alaska's future depends on our ability to develop responsibly our renewable and nonrenewable resources. First and foremost, this requires engineers who are well-educated and Alaska-smart. We hear much about focusing more on our renewable resources. What renewable resource is a better investment than the young people of Alaska? Engineers are an essential and very important component of our younger population. Please support the proposal to construct additional facilities to support engineering education at UAA.

Very sincerely,

Jack Colonell

Joseph M. (Jack) Colonell, PE, PhD
Program Manager, Environmental and Regulatory Support Services
Alaska Pipeline Project
URS Alaska, LLC
Anchorage, Alaska
Tel. (direct): 907.343.0215
Tel. (mobile): 907.360.8291
jack.colonell@urs.com

RIM
ARCHITECTS

ALASKA · CALIFORNIA · GUAM · HAWAI'I
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Anchorage, Alaska 99501
Phone: 907.258.7777
Fax: 907.279.8195
www.rimarchitects.com

April 5, 2011

The Honorable Kevin Meyers
The Honorable Joe Thomas
Senate Education Committee
Alaska State Legislature

RE: Letter in support of SB 107

Dear Senators Meyers and Thomas:

On behalf of RIM Architects and 33 Alaska based employees we offer our support for SB 107 an Act making special appropriations for new engineering buildings for the University of Alaska, Anchorage and Fairbanks campuses. Recognizing a nationwide shortage of engineers is leading to a potential future crisis, and the vital role engineers play in meeting the technological challenges that await future statewide development, we at RIM feel there is a need for Alaskans to be educated and trained with a focus on the unique aspects of construction and design required in our Arctic and sub-Arctic environment. These future engineers represent and important economic engine, vital to Alaska's health.

Alaskans know that we live in a special place, but without technology, we wouldn't survive in this locale. Qualified engineers seek solutions to mitigate the forces of nature- coastal erosion, high seismic activity, abrasive volcanic fallout, extreme snow loading, and the freezing or thawing of our permafrost. Those solutions must fit with logistics that are unimaginable in other regions. The lack of roads, clean water and sanitation systems, seasonal darkness, extreme cold, frozen shipping lanes, short construction seasons, and the expensive energy costs, require individuals with common sense and practical knowledge to meet the challenges of our special place. Alaskans have these qualities.

As we have experienced through the Alaska Native Science & Engineering program, students from villages throughout the state who are enrolled in science and engineering programs continue to stay and work in the state. The new Fairbanks and Anchorage Engineering buildings funded by SB 107 along with the associated programs would have the same affect helping to meet the ever increasing demand for Alaska design professionals.

To conclude, we wholeheartedly endorse SB 107 an investment that will train and educate Alaskan engineers and design professionals necessary to address Alaska's future infrastructure construction demand.

Sincerely yours,

Larry C. Cash
President & CEO

James Dougherty
Alaska Managing Principal

Larry S. Cash CEO | Timothy L. Armour | Scott A. Bohne | James E. Dougherty | Michelle M. Jones | David L. McVeigh
Eric R. Nelson | Philip L. Noret | Krista R. Phillips | Matthew P. Vogel | Brent L. Wiese | Christine M. Wolke

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Alaska State Capitol
Juneau, AK 99801

February 9, 2012

Dear Fellow Alaskan,

I write in support of the critical need for University of Alaska – Anchorage (UAA) Engineering Facilities.

As a fourth generation Alaskan who is deeply embedded in issues relating to Public Infrastructure Development, I have rarely personally weighed-in on the criticality of new facilities on any of our state's campuses. I do so today with the same sense of urgency that I championed the need for the Denali Commission while working on Capitol Hill for Senator Stevens. We are crossing another important milestone on the road to economic sustainability and self-sufficiency; another opportunity to "do the right thing, in the right way". Failure to do so is unacceptable if we intend to outgrow our "colonial economy" status.

As a former "VP" of the US Army Corps of Engineers and UA Regent, with extensive experience in this area, I urge you to support President Patrick Gamble, Chancellor Tom Case, and Dean Orson Smith's request for funding of Engineering Facilities at UAA. The demand for "Alaska Grown" engineers in Anchorage has never been higher, nor the future brighter.

The lead time for the inevitable statewide infrastructure development that we will see in the next 3-10 years is matched by the lead time required to recruit, educate and professionally register engineers. The current bottleneck restraining our capacity to produce local engineers is the lack of adequate educational faculties at UAA.

Each engineer we educate in Alaska tends to remain in Alaska, as do their salaries and families. According to research by the School of Engineering Advisory Board here in Anchorage, the pent up demand both for education and employment exceeds our current physical classroom and lab capacity.

Engineering department leadership at both UAF and UAA support the new facilities proposed at UAA. So do I, and the entire engineering community, their families, their business allies, and everyone concerned about Alaska's future, for they all understand that commerce is built upon infrastructure.

Please join us in supporting these long overdue and much needed UAA Engineering Facilities. Now is the right time, to do the right thing. You won't regret it! Thank you for your service to our State, and for all you do for our engineering community.

Best wishes,

Jeff

Jeff Staser
Principal

SIEMENS

February 27, 2012

The Office of Senator Johnny Ellis
State Capitol Building, 119
Juneau, AK 99801
(907) 465-3704
Fax (907) 465-2529

Dear Mr. Ellis,

I'm writing this letter to express my support for the development and utilization of Engineering Buildings at both UAA and UAF. I have been hiring mechanical and electrical engineers for over 15 years throughout the state of Alaska. Six years ago, I found it difficult to find enough student engineers from the University of Alaska and had to resort to recruiting outside the state. After 6 failed attempts to relocate individuals to Alaska, I had to do something different. The cost of moving engineers to Alaska, getting them trained up only to have them fail to effectively transition to the unique climate, remoteness or other of living in Alaska, was getting too expensive. Therefore, I put the following actions in motion. Step 1, I initiated the "Grow Your Own - GYO" program for Siemens in Alaska. The premise of the program focuses primarily on seeking quality university interns to work with our corporation in a summer program. If the experience is successful, Siemens offers the intern a full time job that includes paying their tuition. Step 2 - Our Company started Siemens Science & Math day at Rabbit Creek Elementary to promote curiosity and fun within the field of Math and Science. Siemens engineers work with students on engineering projects to give them a better understanding of various components in the field of engineering, in the hopes that they're excitement and curiosity is peaked, and that they interested if not passionate about future opportunities in engineering related fields. Step 3 - Our Company worked closely with the UA system statewide and developed Engineering Academies at both Diamond and Lathrop High Schools. I was able to get Siemens to fund the Project Lead the Way training for the teachers that would be instructing in the academy.

I'm proud to report that all three actions have proven successful. Our GYO's are doing outstanding while we are seeing more elementary kids pursuing classes in both Middle and High school that strongly align with coursework needed in the fields of engineering. Dimond and Lathrop High School programs have fostered the growth of numerous students who are pursuing engineering degrees, with wait-lists for entrance to these programs. Finally, the UA system enrollment continues to increase at a rate faster than available seats allows.

5333 Fairbanks St.
Anchorage, AK 99518

Tel: (907) 563-2242
Fax: (907) 563-6139

Our state needs to focus on keeping our young engineers in the state, with stellar academic programs and facilities that allow them to excel. The old verbage, "If you build it, they will come" has proven effective on a small scale in recent Alaskan history. But greater need is evident and necessary. I really hope if we build facilities to educate and train Alaska's own that they will not only come, but will stay and work in Alaska, and become a successful and driving force throughout our state. We need Alaskans building today for tomorrow's future and Alaska's future success.

Thank you for your time and consideration. Please feel free to contact me and let me know if you have any questions.

Respectfully,

Leverette G. Hoover
Alaska Branch Manager
Siemens Industry Inc
5333 Fairbanks St.
Anchorage, AK 99518
Tel: (907)563-2242
Fax: (907)563-6139
leverette.hoover@siemens.com

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

Alaska Society of Professional Engineers

A state society of the National Society of Professional Engineers

February 27, 2012

Senator Johnny Ellis
Alaska State Legislature
Alaska State Capitol Building
Juneau, AK 99801

Dear Senator,

Alaska is a great state in many ways. One of my favorite things about Alaska is its history with the engineering profession. The ALCAN Highway, Yukon River Bridge and the Trans-Alaska Pipeline are all examples of great things accomplished by engineers in Alaska. Despite our past accomplishments, I believe our greatest engineering accomplishments in this state still lie ahead of us. I am putting pen-to-paper today to voice my support for the new engineering facilities at both the Fairbanks and Anchorage campuses for the University of Alaska.

I am a 16-year resident of Alaska having moved here directly after receiving a Bachelor of Science Degree in Civil Engineering at the USAF Academy in Colorado Springs, CO. I fell in love with Alaska and after leaving the service have made Alaska my home. Recently I worked through night classes at UAF to receive a Master of Science degree in Engineering Management (2010). My follow on education from UAF was instrumental in helping me advance within my company and putting me into a position to serve the community better. I am currently in my second year of serving as the President of the Fairbanks Chapter of the Alaska Society of Professional Engineers (ASPE).

From my point of view as an employee at Design Alaska and through my volunteer work with ASPE, I get to see the quality of UA engineering graduates. They are truly some of the best of the rising generation. In addition to their educational strength, they also "get" Alaska and know what it takes to live and work here. They are committed to their communities and this state. Immediately upon entering the work force they are going the extra mile to give back to the University, to the community, and to the state.

The current engineering facilities in Fairbanks and Anchorage are lacking in space and do not provide the level of access to state-of-the art equipment that is warranted. Despite the fact that the facilities are inadequate, the engineering programs continue to grow in enrollment and generate capable engineers. I believe that funding the upgrades to the facilities is essential to accomplishing the engineering feats that will happen in Alaska in the next 50 years. We want Alaskan engineers to design and construct these projects. I request your support in helping the legislature understand the critical need for these facilities.

Sincerely,

Jeff Putnam, PE, PMP
President – Fairbanks Chapter, ASPE
Design Alaska – Marketing Director/Project Manager
jeff@designalaska.com

From: Fred Millen [mailto:fmillen@uskh.com]
Sent: Friday, February 05, 2010 8:59 AM
To: Sen. Johnny Ellis
Subject: UAA Facility and Funding

Dear Senator Ellis,

It has come to my attention that you submitted legislation that would fund new facilities and infrastructure at the University of Alaska. As a Director of Human Resources at USKH, Inc I often recruit and hire engineers from various disciplines. Too many times I have had to hire individuals from outside of Alaska due to a void in the local applicant pool. An investment in UAA would help remedy this and allow my company and other local firms the opportunity to hire locally and provide graduates with opportunities here in our great state.

Thank you for introducing the legislation. It is my sincere hope that it gains the needed support.

Regards,

Fred S. Millen, SPHR
Director of Human Resources

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Please consider the environment before printing.

February 14, 2012

Senator Johnny Ellis
State Capitol Room 119
Juneau, AK 99801

Re: UA Capital Budget

Subj: New Engineering Buildings

Dear Senator Ellis:

Please provide full Capital Funding for the Engineering Building Expansions at the UAA and UAF Schools of Engineering (SOE). Student enrollment at both campuses is growing rapidly and the existing building space for the Schools of Engineering is old and outgrown.

The UA Board of Regents commissioned Ira Fink & Associates (IFA) to assess the growing needs for the Schools of Engineering, which resulted in a several hundred page report. We hope that you will find the following brief review of facts illuminating:

Growing School of Engineering Enrollment (Actual from IFA Findings on page 189)

SOE Program	UA Anchorage 2007 Enrollment	UA Anchorage 2010 Enrollment	UA Fairbanks 2007 Enrollment	UA Fairbanks 2010 Enrollment
Associates, other	124	184	53	45
BS Engineering	405	663	401	570
MS Engineering	121	136	89	87
PhD Engineering	0	0	26	35
Total Students	**650**	**983**	**569**	**737**
Growth Rate	111 Students per year growth rate		57 Students per year growth rate	

Existing Space in Gross Square Feet (GSF) (Actual from IFA Findings on page 191)

SOE Program	UA Anchorage 2007	UA Anchorage 2010	UA Fairbanks 2007	UA Fairbanks 2010
Space on Campus	25,500 GSF	25,500 GSF	78,542 GSF	78,542 GSF
Enrollment	650 Students	983 Students	569 Students	737 Students
Existing density	39.2 GSF/Student	25.9 GSF/Student	138 GSF/Student	106.6 GSF/Student

Assessing college space requirements is challenging. The space needs of public High Schools and Elementary Schools are not directly correlated, but they provide a useful comparison.

- State of Alaska EED Elementary School Standard: 114 GSF/Student
- State of Alaska EED High School Standard: 165 GSF/Student

Projecting growth rates and refining actual space needs for building programs is an art and not our specialty, but just for perspective please consider this: At current growth rates the SOE enrollment at UAA could easily exceed 1,600 students by 2016. Allowing only 114 GSF/ student would suggest that UAA SOE needs at least 182,000 GSF, which is 159,000 GSF more than currently exists. The Phase 1

Adams, Morgenthaler and Company, Inc.
701 East Tudor Road • Suite 250 • Anchorage, AK 99503
fax 907.257.9191 • www.amc-engineers.com • phone 907.257.9100

plan for UAA is currently limited to 75,000 GSF of new space, but in our view that is less than half of what is needed. **With only 25,500 GSF on campus today, the space needs for the UAA Engineering Program are truly desperate!**

Engineering Building space at UAF is also quickly falling behind the need. While the situation at UAF is not as immediate as the situation at UAA, there is most definitely a need for significant improvements there as well. Both schools are growing and both need more building space for the expanding Schools of Engineering.

Engineering students deserve at least as must educational space as we allow for elementary school students, and most likely need even more. Please vote to allocate adequate funding from the Capital Budget to resolve the space need crisis at UAA and fix the growing need at UAF.

The future growth of Alaska and its infrastructure will be dependent on an adequate supply of qualified engineering graduates. AMC Engineers can attest to the fact that engineers who grow up and go to school in Alaska are much more likely to remain in Alaska after they graduate. Developing the engineering programs at UAA and UAF will directly benefit the state for years to come.

Sincerely,

2/14/12

Boyd Morgenthaler, P.E.
Chairman, Principal Mechanical Engineer
AMC Engineers

J. Patrick Cusick, P.E.
President/Principal Electrical Engineer
AMC Engineers

From: Wilbur, Jack [mailto:jack@designalaska.com]
Sent: Wednesday, April 06, 2011 7:41 AM
To: Sen. Joe Thomas; Sen. Joe Paskvan
Cc: Sen. Johnny Ellis; Douglas J. Goering; Miller, Chris; Putnam, Jeff
Subject: SB 107 - UA Engineering Buildings

Gentlemen,

I am writing you in support of SB 107, introduced by Senator Johnny Ellis, an act making a special appropriation from the general fund to the University of Alaska for construction of new engineering buildings at UAF and UAA. Last year the legislature wisely allocated $8,000,000 for the planning and design of these facilities. UAF desperately needs expanded facilities so that the UAF College of Engineering and Mines (UAF CEM) can continue to grow and meet the ever expanding need for engineers in the State of Alaska.

Why is this so important to me? Because I am President of Design Alaska, an architectural/engineering/surveying firm of 70 employees located in Fairbanks, and we depend heavily on UAF CEM to provide us with engineering graduates. The ready availability of engineering graduates to feed our growing firm has been instrumental to our success. Our continued growth and success is dependent on UAF's ability to continue to satisfy our annual need for new engineers and to provide our existing engineers with opportunities for continuing education. I offer the following to illustrate my point:

- 18 Design Alaska engineers are UAF graduates.
- 9 Design Alaska employees are currently seeking UAF under graduate engineering degrees.
- 2 Design Alaska engineers are currently seeking UAF graduate degrees.

Please follow Senator Ellis's lead and support SB 107.

Sincerely,
Jack Wilbur

Jack Wilbur, PE
President | **Design Alaska Inc.** | **907-452-1241**

SUPPORT FOR A NEW UAA ENGINEERING BUILDING February 25, 2012

Thank you very much for the opportunity to write in support of the engineering program and new engineering building on the University of Alaska Anchorage campus.

My name is John Aho and I am a retired CH2M HILL vice president and structural engineer having spent 35 years of my career in Alaska. I also spent several years as an engineering professor at Rose-Hulman Institute of Technology in Indiana. I was born in Anchorage, as was my father.

I have M.A.E. and Ph.D. degrees in aeronautical and astronautical engineering from Cornell University and an honorary Doctor of Sciences degree from UAA.

My experience with UAA began a few years ago when I was asked by the Dean of Engineering to assist him in forming an Engineering Advisory Board. Through my work on the Advisory Board I've had the opportunity to witness the wonderful work that the Dean and his staff are doing in a facility that is woefully undersized; up to 3 to 5 times undersized when compared to colleges with similar engineering school enrollments. The classroom, laboratory, and office spaces are totally inadequate for the current engineering student and teaching population and will only get worse as time goes by if facility expansion needs are not met. It is amazing that the engineering program at UAA is as successful as it is given these conditions. This is a real tribute to the engineering staff.

What do inadequate facilities mean to UAA engineering?

In my experience it means that the engineering program could eventually be adversely affected and begin to lose students, both graduating high school seniors and current university students, to outside universities and reverse the current trend of talented young people staying here to study. Once a trend such as this begins it would be hard to reverse. This would be unfortunate for the University and the State where there is a continuing need for graduating engineers in all disciplines.

CH2M HILL has had an office in Anchorage for over 40 years and has been impressed with the quality of UAA engineering school graduates. 28% of our current staff of 57 has one or more degrees

from either UAA or UAF. These staff have been instrumental in our continuing success in Alaska. With our recent acquisition of VECO (2,000-3,000) we will have a continuing need for new engineering graduates in all disciplines. We will expect them to be appropriately trained in adequate facilities.

Hiring engineering staff has always been a challenge in Alaska. We don't have the applicant pool that you might find in a major metropolitan area. I have found that hiring residents educated in Alaska is a win-win proposition. We win because they are trained to respond to the environmental conditions peculiar to the State and we win because their roots are here and they want to contribute to Alaska's growth. We tend to lose staff that move to Alaska for work and become disenchanted with the harshness of the climate and with being away from extended family members.

Having a healthy engineering program in Anchorage is important to our young people, to the resident s of the city, to the State of Alaska and to the employers that are continually looking for home-grown talent.

I certainly hope that positive consideration will be given to the UAA engineering programs and for design and construction funding for a new engineering building on the UAA campus thus supporting the incredible staff and growing talented student population.

Thank you.

Institute of Transportation Engineers - Alaska Section
P.O. Box 202637, Anchorage, Alaska 99520

March 02, 2012

Senator Kevin Meyer
State Capitol Room 103
Juneau, AK 99801

Dear Senator Meyer

The Institute of Transportation Engineers (ITE) is an international educational and scientific association of transportation professionals who are responsible for meeting mobility and safety needs. ITE promotes professional development of its members, supports and encourages education, stimulates research, develops public awareness programs and serves as a conduit for the exchange of professional information. On behalf of the Institute of Transportation Engineers-Alaska Section's more than 80 members, we are writing to express our support for expanding the engineering facilities at the University of Alaska to meet the demands of our state and professional industry.

Both UAA and UAF facilities are cramped and out-of-date in ways specific to their locations and programs. Instructional and specialized lab space must be expanded and improved to meet the needs of today's engineering student. It is important to produce "home grown" engineers to keep projects from leaving the state and to attract new projects to the state. Professionals that grew up in Alaska and obtain Alaskan engineering degrees have a tendency to remain here, reducing turnover rates for employers.

Graduates from both UAA and UAF are essential. In short, new engineering facilities are clearly justified as recommended by objective assessments of UA capabilities and industry needs. We urge you to take an active role in supporting the University of Alaska engineering programs during the upcoming legislative session.

Sincerely,

Karthik Murugesan, E.I.T.
President, ITE Alaska Section

Nicole Knox, P.E.
Vice-President, ITE Alaska Section

Thank you for supporting ITE Alaska Section!

From: Mikal Hendee [mailto:mkhengineering@gmail.com]
Sent: Monday, March 28, 2011 10:21 AM
To: Sen. Johnny Ellis
Subject: Re: Seeking your support for Engineering Facilities - SB107

Dear Senator Ellis,
I am writing to let you know I am in full support of Senate Bill SB107 to fund the construction of new engineering buildings at UAF and UAA. As a 15-year engineer working in Alaska, I have watched the market for engineers increase over the years. The current engineering facilities at UAF and UAA are inadequate to support the demand for engineering graduates in this state.
Thank you for your sponsorship of this bill.
Sincerely,
Mike Hendee

Mike Hendee, P.E.
MKH Engineering
8050 Queen Victoria Drive
Anchorage, AK 99518
907-244-3807
mkhengineering@gmail.com

From: Korynn Applegate [mailto:kapplegate@kuminalaska.com]
Sent: Tuesday, April 05, 2011 2:52 PM
To: Sen. Johnny Ellis
Subject: Supporter of SB-107

Good Afternoon Senator Johnny Ellis,

This is my testimony to support SB-107 which will provide funding to expand the UAA & UAF engineering facilities and programs. I appreciate your time and look forward to seeing this bill go through.

Thanks,

Korynn Applegate
Intern Architect

KUMIN ASSOCIATES
architects | planners | interior designers

808 E Street, Suite 200
Anchorage , Alaska 99501
T (907) 272-8833 **F** (907) 272-7733

Visit Kumin Associates' new website at www.kuminalaska.com

Senator Ellis ---

This is to express my support for improvements in Engineering programs and facilities at UAF/UAA.

I take great satisfaction in my involvement in the development of Alaska infrastructure and economy as a Civil Engineer for Alyeska Pipeline Service Co, and now at BP Exploration Alaska. I was fortunate to participate in the design, construction and operation of TAPS, delivering over 16 billion bbls of crude oil to the lower 48. As you well know, the oil industry has contributed up to 85% of the states economy for 35 years now and has built a 40 bb$ permanent fund legacy for the future.

And while the oil industry is waning now, Alaska is a resource rich state. There are many other opportunities waiting to be developed. Opportunities like TAPS that will power the economy in the future. Alaska needs its best and brightest young people to take on the challenge of engineering and build that future. I can think of no better investment than to provide the very best engineering schools possible right here in Alaska.

I have a long and close association with both UAA and UAF. I have 3 engineering degrees (two of which I received outside and the third I received at UAA). I lived in Fairbanks 10 years and served on the UAF Engineering Management advisory committee. I am past president of the American Society of Civil Engineers, Alaska Section. I personally know many UAA/UAF faculty. My daughter graduated in Mechanical Engineering at UAF.

I know from personal experience that the very best engineers are those who are committed to Alaska. The greatest commitment comes from those students who live here and have graduated from a UA school of Engineering. The best professors are those who have lived and learned the problems and secrets of this unique place. Alaska students provide the greatest value to Alaska Industry because they are committed and trained here.

The state can be assured UAA/UAF are capable of delivering the highest level of service in any case. Improving the facilities will improve the odds of attracting the best and brightest Alaska students, keeping them here, and training them. As I said before, I can think of no better investment in Alaska's future.

Sincerely;

Elden R Johnson, PE
Corrosion Engineer,
BP Exploration Alaska

(907) 564-4015
(907) 322-9161 (Mobil)

Alaska Professional Design Council PO Box 241851 Anchorage AK 99524

MEMBER SOCIETIES

Alaska Society of Professional Engineers

Alaska Society of Professional Land Surveyors

American Congress on Surveying & Mapping Alaska Section

American Institute of Architects Alaska Chapter

American Society of Civil Engineers Alaska Section

American Society of Landscape Architects Alaska Chapter

American Council of Engineering Companies of Alaska

American Society of Interior Designers

Structural Engineers Association of Alaska

February 27, 2012

The Honorable Senator Johnny Ellis
Alaska State Legislature
120 4th Street, State Capitol
Juneau, AK 99801-1182

RE: SB-107, "An Act making special appropriations for new engineering Buildings for the University of Alaska in Anchorage and Fairbanks."

Subject: Support and Request for the Funding of the University of Alaska Engineering Programs and Facilities at UAA and UAF

The Alaska Professional Design Council (APDC) is a consortium of professional societies representing architects, engineers, land surveyors, landscape architects and other design professionals. Our member organizations have a combined membership of over 1,500 and represent approximately 5,000 licensed professionals. APDC addresses issues of concern to the various design professions through workshops, seminars, ad-hoc committees, standing committees, and governmental task forces. APDC also receives sustaining member support from Architectural and Engineering firms throughout Alaska.

The Alaska Professional Design Council (APDC) supports the funding of engineering and geomatics (surveying and mapping) programs and facilities at the University of Alaska. Alaska faces a serious shortage of design professionals, especially in anticipation of major projects that may be occurring in the near future such as the Wantana Hydroelectric Dam, a natural gas pipeline, and other such projects.

A steady supply of engineers, surveyors, and related design professionals into the Alaska workforce as graduates from the University of Alaska has shown to be effective in employee retention for Alaska employers and to have a multiplying effect on economic development in the State.

In order to meet the needs of present and future engineers for the Alaska work force, the University of Alaska system should be graduating about 200 entry-level engineers each year. Currently, the University is producing roughly half of that demand. The University of Alaska system has had recent success in accelerated recruitment through programs such as the Alaska Native Science and Engineering Program (ANSEP), and the Bachelor of Science in Engineering (BSE) program at UAA. The University also has developed an increased number of pathways into engineering programs from all UA campuses. There has been a surge of lower division enrollment in the UA engineering programs, and this trend is expected to

continue. However; new engineering facilities need to be provided at the UAA and UAF campuses in order to maintain and expand these programs. Existing space limitations are restricting educational accomplishments and are not on par with the advancements of other US college institutions for engineering students.

New engineering facilities for UAA and UAF are now proceeding through the design phase which makes construction funding the next step. APDC supports the construction funding for these projects to assure a continuous supply of engineering professionals for Alaska's future.

Your support and passage of this bill is requested to allow continuation of the development of the Engineering Facilities and programs at UAA and UAF.

Thank you for this opportunity to comment and for your support of this bill.

Sincerely,

ALASKA PROFESSIONAL DESIGN COUNCIL

Mikal K. Hendee, P.E.
President

The Institute of Electrical and Electronics Engineers, Inc. - Alaska Section
P.O. Box 230367 Anchorage, Alaska 99523-0367

February 27, 2012

Senator Johnny Ellis
State Capitol Building 119
Juneau, Alaska 99801

Forwarded by email to: Senator_Johnny_Ellis@legis.state.ak.us

Subject: SB107, Appropriation for University Engineering Buildings

Dear Senator Ellis:

The Alaska Section of the Institute of Electrical and Electronics Engineers (IEEE) strongly supports SB107, which provides $75 million to the University of Alaska for the design and construction of a new engineering building at the University of Alaska Anchorage, and $50 million for the design and construction of a new engineering building at the University of Alaska Fairbanks.

Dramatically increasing engineering enrollments are stressing the ability of both campuses to meet the demand for engineering educations. It is very important to provide local access for engineering students, or many will either go without, or leave the state to enter other institutions. Many of those who leave the state do not return.

IEEE currently has about 500 members in Alaska. It is the world's largest professional association for the advancement of technology, with over 400,000 members.

Thank you for sponsoring these urgently needed appropriations. Please advise if we can do more to support SB107.

Sincerely,

/s/ Robert Seitz, Chair
IEEE Alaska Section
<seitzak@ieee.org>

MWH

BUILDING A BETTER WORLD

February 27, 2012 Submitted via Email

Senator Johnny Ellis
Alaska State Legislature
Alaska State Capitol Building, Room 119
Juneau, Alaska 99801

Dear Senator Ellis:

The purpose of this letter is to urge you to support the continuation of funding to design and construct the necessary engineering facilities at UAA and UAF now. I support expansion of UA engineering facilities for a number of reasons:

- Engineering graduates are in high demand in this state, and the need exceeds the demand.
- Alaska faces a shortage of qualified engineers. To respond to the state's need, the University of Alaska Board of Regents set a priority to more than double the annual number of baccalaureate graduates to 200 by FY14.
- The Alaska Department of Labor's current projections through 2018 indicate an average of 50 new engineering jobs will be available each year, plus another 70 openings from annual turnover and retirement.
- Many engineers working in Alaska are non-residents - up to 35 percent in some disciplines. These employees lack education and experience in Arctic engineering principles.
- We recognize that graduates from Alaska and UA are more likely to remain in Alaska. Graduates from both UAA and UAF are essential.

Thank you for your consideration of this request. It is important to me, MWH in Alaska, our industry, and the state of Alaska.

Sincerely,
MWH Americas, Inc.

Chris Brown

Chris Brown
Vice President and Alaska Regional Manager

1835 S. Bragaw Street
Suite 350
Anchorage, AK 99508

TEL 907 248 8883
FAX 907 248 8884
www.mwhglobal.com

From: Larry Houle [mailto:lhoule@rimarchitects.com]
Sent: Wednesday, April 06, 2011 8:32 AM
To: Sen. Kevin Meyer; Sen. Joe Thomas; Sen. Johnny Ellis
Subject: Letter of support for SB 107 from RIM Architects

Senators Meyer, Thomas and Ellis: We wholeheartedly support this legislation.

Larry J. Houle
Director, Business Development (Alaska)
RIM Architects
645 G St, Ste 400 | Anchorage, AK 99501
907.258.7777 ph | 907.279.8195 fx
907.602.3933 cell

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LOREN & CAROLYN LEMAN
2699 Nathaniel Court • Anchorage, Alaska 99517 • (907) 243-2000

February 26, 2012

Senator Johnny Ellis
State Capitol
Juneau, AK 99801 via email Senator_Johnny_Ellis@legis.state.ak.us

Dear Senator Ellis and members of the Legislature:

Re: Funding for University of Alaska Engineering Facilities

I support funding for expanded and improved engineering facilities at both UAS and UAF.

The Board of Regents has set a goal that UA graduate at least 200 engineering students by 2014. Growth in engineering at UAA has been incredible—and this program now serves more students than our traditional engineering campus at UAF. UAA desperately needs classroom, laboratory and office space. It expects to graduate 80 engineering students in May—and UAF may be close to this.

In a recent review of the UAA engineering program by the Accreditation Board for Engineering and Technology (ABET), space limitations were identified as a significant deficiency that needs immediate attention. Maintaining accreditation is vitally important for attracting and retaining students. UAF also needs to upgrade its aging facilities.

I have been a registered Civil Engineer in Alaska for nearly 35 years—and now am on the Advisory Board for the UAA School of Engineering. I also serve on advisory councils for the Dimond High School Engineering Academy and Career & Technology Education for the Anchorage School District. Through these and other programs in which we promote STEM (Science, Technology, Engineering & Mathematics), I join others in actively recruiting students to our University. We have seen a tremendous response by our high school students in choosing engineering at UAA and UAF.

I understand the challenges of building a budget—and recognize that the University must compete with other needs. As you complete this task, I hope you will agree with me that new engineering buildings will be a huge step toward preparing our students to step into wonderful opportunities in our State.

Sincerely,

Loren Leman

Loren Leman, P.E.

ALASKA · CALIFORNIA · GUAM · HAWAI`I
645 G Street, Suite 400
Anchorage, Alaska 99501
Phone: 907.258.7777
Fax: 907.279.8195
www.rimarchitects.com

February 26, 2012

Honorable Johnny Ellis
716 W. 4th Avenue, Suite 500
Anchorage, AK 99501

RE: University of Alaska School(s) of Engineering
SUPPORT FOR ENGINEERING FACILITIES IN ANCHORAGE AND FAIRBANKS

Dear Senator Ellis:

RIM Architects is a full-service Architectural firm, founded in Anchorage, with additional offices in Honolulu, Hawaii, San Francisco, California and Hagatna, Guam. We serve the architectural needs of Alaska and the Pacific Rim with master planning and design for new facility construction and renovation. We celebrated our twenty fifth year of business beginning last April, a milestone for which we are very proud to have achieved.

Alaska has many unique challenges for the Architecture and Engineering (A/E) professions. There is no university curriculum for architecture in Alaska, so we find ourselves leaning heavily on the engineering schools in Anchorage and Fairbanks to provide resources for keeping abreast with developments in climate, materials testing, logistics, sustainability and innovation. To obtain a professional license to practice architecture in Alaska for example, one must enroll in the University of Alaska's Engineering School to complete classes in Arctic Engineering or Northern Design. Our design solutions rely heavily on the expertise provided by professional engineering sub consultants. To keep a professional license, A/E's are required to obtain Continuing Education Credits, appropriately reflecting the complex and changing world where we live and practice.

A successful building project requires specific expert knowledge in the areas of Structural, Geotechnical, Civil, Mechanical, and Electrical engineering to augment and compliment the expertise of architects. Alaska's unique challenges require a coordinated system of partnership between the professionals and the academic world to keep our professions current with emerging technologies and practices. This is true in all states, but is particularly applicable in Alaska, where the sheer size of the state and the unique challenges of coastal areas, extreme temperature variations, rugged terrain, seismic activities, snow accumulation, ice movement, fragile ecosystems, permafrost, and seasonal logistics related to fuel and energy are not well studied or understood by universities elsewhere. These challenges are significant in our region, and the number of qualified engineers entering the marketplace is not predicted to meet the future demand.

We are very concerned that if the University of Alaska doesn't keep pace as a leading regional and circumpolar institution, our A/E industry in Alaska will suffer setbacks meeting the engineering and technological challenges of the future. **Please consider this a letter of support for expansion of programs and facilities in both Fairbanks and Anchorage** to assure that Alaska can fulfill its destiny as a leader in understanding and providing solutions to our unique challenges, now and into the future.

Sincerely,

RIM Architects

James E. Dougherty, AIA NCARB
Managing Principal - Alaska

RIM Letter-of-support_UAA-UAF.docx

Larry S. Cash FLC | Timothy L. Armour | Scott A. Bohne | James E. Dougherty | Michelle M. Jones | David L. McVeigh
Eric R. Nelson | Phillip L. Noret | Krista R. Phillips | Matthew P. Vogel | Brent L. Wiese | Christine M. Wolke

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3700 Boniface Parkway A
Anchorage, AK 99504

Phone: 907-222-3000
Fax: 907-222-3001
Cell: 907-229-0331
Email: darmstrong@rsa-ak.com

March 31, 2011

Senator Bettye Davis
State Capitol Room 30
Juneau, Ak 99801

Re: SB 107: UAA Engineering Building

Dear Senator Davis:

I have been on the University of Alaska Anchorage School of Engineering Advisory Board since its inception. Since our involvement, we have seen engineering enrollments increase exponentially at UAF, especially in the mechanical and electrical engineering areas since the introduction of the BSE program in engineering. The program has attracted so many students that the classrooms and labs are totally overwhelmed, and not adequate to properly provide the instruction needed for the program.

I understand that you are a champion of education, so I urge you to support SB 107 which addresses appropriation of $75 million for the design and construction of a new engineering building at the UAA campus, in addition to $50 million for engineering facilities at the UAF campus.

The building will enable many of our students to get their engineering education right here in Anchorage, so they do not have to move elsewhere, or abandon their desire to become engineers. Additionally, the graduates of the engineering programs at UAA will fill open jobs that are presently going to out of state engineers because there are not enough people to fill the engineering positions.

Thank you in advance for your support of this essential bill.

Very truly yours,

Richard S. Armstrong, P.E.

Cc: Senator Johnny Ellis

Community Support Needed to Expand UA Capabilities

By Richard Reich, P.E.. Chair - UAA, School of Engineering Advisory Board &
Gordon Pospisil, Chair - UAF, College of Engineering & Mines Advisory & Development Council

The opportunity is upon us to assist the University of Alaska (UA) in advancing its capability to expand engineering programs statewide to meet the critical needs for engineers and engineering-related professions in our state. Many of us who are involved with resource and project development and/or infrastructure maintenance in Alaska have struggled in recruiting professionals such as engineers, surveyors, technicians and managers. The Advisory Boards that serve the University of Alaska Anchorage, School of Engineering (UAA SOE) and University of Alaska Fairbanks, College of Engineering and Mines (UAF CEM) clearly recognize the need to expand facilities to meet the demands of our state and the professional industry.

Fortunately, the state legislature has authorized funding for the design of engineering facilities at both UAA and UAF campuses. While this is a significant step forward, the effort to secure funding for the construction of these facilities at both campuses will require a strong, cohesive message from our industry across the State. A key concern is that the University is not meeting our current demand and will not meet the future demands for engineering and engineering-related graduates without significant infrastructure development at both the UAA and UAF campuses. A related concern is that our graduating high school seniors should have good quality choices to pursue engineering professional education through the University of Alaska.

In 2007, the UA Board of Regents approved an Engineering Initiative that targets the graduation of a minimum of 200 engineering students per year by 2014. Given the historic output of graduates from both UAA and UAF since 2004, the combined graduation rate is increasing but it is clear that graduates from both campuses need to increase in order to meet the Engineering Initiative. While programs size is increasing, a recently completed third party assessment shows that the programs are limited by the available space at each campus. Therefore, it is imperative that industry voice its support to funding construction at both campuses so that the UAA/UAF engineering programs do not become a political hot potato, setting one campus against the other, where in the end nobody wins.

> *...the effort to secure funding for the construction of these facilities at both campuses will require a strong, cohesive message from our industry across the state.*

We are stating the obvious by saying that Alaska is a resource development state and engineers and engineering-related technicians are crucial to the overall economic development of the state. Many of our colleagues are employed in the both the public and private sectors and are working in key positions on new project development or maintenance of existing projects or infrastructure. Many in our communities recognize the important role of engineering professionals in our state and there is generally support for expanding engineering capabilities at both UAA and UAF. What is needed is a clear, aligned message from our industry.

Clearly, engineers are in high demand, not only in Alaska, but nationwide. Fortunately, the quality of engineers graduating from both UAA and UAF are exceptional because they are knowledgeable of the unique Arctic environment in Alaska and associated design challenges, are aware of logistical and seasonal transportation and construction constraints, as well as the political and social issues within our state. The University of Alaska has an excellent track record for supplying high quality engineering graduates to Alaska oil and gas, mining, and other industries. The challenge is to sustain and expand this capability for local education and local hire.

In summary, now is the time to actively express support to expand and enhance engineering education and careers through the University of Alaska. New engineering facilities are clearly justified as recommended by objective assessments of UA capabilities and industry needs. Please take an active role in supporting the University of Alaska engineering programs during the upcoming legislative session. ❖

Senior Electrical Engineer

Dallis Joins WHPacific

Anchorage, Alaska—July 12, 2011—Park Dallis, PE has joined WHPacific as Senior Electrical Engineer. Based in WHPacific's Anchorage office, Dallis brings more than 38 years of engineering experience in electrical engineering, project management and construction. His areas of specialization include commercial and industrial power and lighting design, fire alarm, telecommunications, data, and other low-voltage systems, energy efficiency and cost effective solutions to design challenges.

Owned by NANA Development Corporation, WHPacific is an architectural and engineering consulting firm with 14 offices in seven states, including five offices in Alaska. ❖

Alaska Professional Design Council PO Box 241851 Anchorage AK 99524

MEMBER SOCIETIES

Alaska Society of Professional Engineers

Alaska Society of Professional Land Surveyors

American Congress on Surveying & Mapping Alaska Section

American Institute of Architects Alaska Chapter

American Society of Civil Engineers Alaska Section

American Society of Landscape Architects Alaska Chapter

American Council of Engineering Companies of Alaska

American Society of Interior Designers

Structural Engineers Association of Alaska

LEGISLATIVE LIAISON COMMITTEE 2012 POSITION STATEMENT

The Alaska Professional Design Council (APDC) is a consortium of professional societies representing architects, engineers, land surveyors, landscape architects and other design professionals. Our member organizations have a combined membership of over 1,500 and represent approximately 5,000 licensed professionals. APDC addresses issues of concern to the various design professions through workshops, seminars, ad-hoc committees, standing committees, and governmental task forces. APDC also receives sustaining member support from Architectural and Engineering firms throughout Alaska.

One component of APDC activity is the Legislative Liaison Committee (LLC). The LLC is a standing committee that has been actively involved in legislation affecting the design community since the 1970s (actually predating APDC).

APDC works very closely with the Architects, Engineers, and Land Surveyors (AELS) Board to further the interests of the regulated design professions in keeping with the protection of the health, safety and welfare of the public. APDC generally supports the efforts of the AELS Board.

The following is a discussion of the primary issues of concern to APDC and our membership this legislative session:

Expand QBS to cover all recipients of state funds – The State of Alaska currently requires that designers on state-funded public works projects be selected using Qualifications-Based Selection (QBS) criteria. This methodology results in the best qualified designer being selected for public projects. Political subdivisions of the state also design and construct public projects, and some of those entities attempt to utilize design fee, or cost, as a component of the selection process. Due to the complex nature of design projects, APDC and ACEC strongly believe that it is in the public's interest to utilize QBS for all public projects, and are therefore working to extend the state requirement to use QBS on public works projects to political subdivisions receiving state funding for public works projects.

Requested Statute Amendments for the State of Alaska, Board of Registration for Architects, Engineers, and Land Surveyors (AELS), relative to AS 08.48.221 Seals, AS 08.48.281 Prohibitive Practice, AS 08.48.341 Definitions, AS 08.48.331 Exemptions, and AS 08.48.091 Written Examinations and Examination Fees

Chapter 48 outlines the Statutes and Regulations governing Architects, Engineers, and Land Surveyors in the State of Alaska. Section 08.48.011 created the State Board of Registration for Architects, Engineers, and Land Surveyors (AELS) to administer the provisions of Chapter 48 for the furtherance and enforcement of health, safety, and welfare of the public.

The requested statute amendments are required for coordination with other existing statutes and regulations and revisions as necessary to clarify roles and responsibilities of registrants, establish the scope of practice, and define who may practice architecture, engineering, land surveying, and landscape architecture in a clear and concise manner. The amendments will assist in the proper interpretation and enforcement of statutes and regulations for the purpose of protection of the health, safety, and welfare of the public.

University of Alaska Engineering Programs and Funding – APDC supports state funding for education in the engineering and geomatics (surveying and mapping) programs at the University of Alaska. Alaska faces a serious shortage of design professionals, especially in anticipation of major projects that may be occurring in the near future such as the Watana Dam, a gas line and other such projects.

A steady supply of engineers, surveyors and related design professionals into the Alaska workforce as graduates from the University of Alaska has shown to be effective in employee retention for Alaska employers and to have a multiplying effect on economic development in the State.

In order to keep the labor supply up with the demand, the University of Alaska system should be graduating about 200 entry-level engineers each year. Currently, the University is producing roughly half of that demand. The University of Alaska system has had recent success in accelerated recruitment through programs such as the Alaska Native Science and Engineering Program (ANSEP), and the Bachelor of Science in Engineering (BSE) program at UAA. The University also has developed an increased number of pathways into engineering programs from all UA campuses. There has been a surge of lower division enrollment in the UA engineering programs, and this trend is expected to continue. However, new engineering facilities need to be provided at the campuses of UAA and UAF in order to continue to develop and implement these programs. Existing space limitations are restricting educational accomplishments and are not on par with the advancements of other US College Institutions for Engineering Students.

New Engineering Facilities for UAA and UAF are proceeding through the design phase making construction funding the next step. APDC supports construction funding for these projects to assure a continuous supply of professionals for our state's future.

Support a state funded transportation program – Alaska's essential transportation infrastructure is highly dependent on federal funding. In order to insure that Alaskans will have a safe, secure transportation system, it is vitally important for the state to implement a self-sustaining state funded transportation infrastructure program.

Support capital funding for deferred maintenance and repair of the state's public infrastructure – APDC supports state funding for capital projects that decrease the level of deferred maintenance and contribute to the repair of public facilities.

Alaska Professional Design Council PO Box 241851 Anchorage AK 99524

MEMBER SOCIETIES

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Alaska Society of Professional Land Surveyors

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American Society of Civil Engineers Alaska Section

American Society of Landscape Architects Alaska Chapter

American Council of Engineering Companies of Alaska

American Society of Interior Designers

Structural Engineers Association of Alaska

February 27, 2012

The Honorable Senator Johnny Ellis
Alaska State Legislature
120 4th Street, State Capitol
Juneau, AK 99801-1182

RE: SB-107, "An Act making special appropriations for new engineering Buildings for the University of Alaska in Anchorage and Fairbanks."

Subject: Support and Request for the Funding of the University of Alaska Engineering Programs and Facilities at UAA and UAF

The Alaska Professional Design Council (APDC) is a consortium of professional societies representing architects, engineers, land surveyors, landscape architects and other design professionals. Our member organizations have a combined membership of over 1,500 and represent approximately 5,000 licensed professionals. APDC addresses issues of concern to the various design professions through workshops, seminars, ad-hoc committees, standing committees, and governmental task forces. APDC also receives sustaining member support from Architectural and Engineering firms throughout Alaska.

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continue. However; new engineering facilities need to be provided at the UAA and UAF campuses in order to maintain and expand these programs. Existing space limitations are restricting educational accomplishments and are not on par with the advancements of other US college institutions for engineering students.

New engineering facilities for UAA and UAF are now proceeding through the design phase which makes construction funding the next step. APDC supports the construction funding for these projects to assure a continuous supply of engineering professionals for Alaska's future.

Your support and passage of this bill is requested to allow continuation of the development of the Engineering Facilities and programs at UAA and UAF.

Thank you for this opportunity to comment and for your support of this bill.

Sincerely,

ALASKA PROFESSIONAL DESIGN COUNCIL

Mikal K. Hendee, P.E.
President

R&M CONSULTANTS, INC.
9101 Vanguard Drive, Anchorage, Alaska 99507
(907) 522-1707, FAX (907) 522-3403, www.rmconsult.com

February 27, 2011

R&M No. 0001.00

Senator Johnny Ellis
State Capitol Building, 119
Juneau, Alaska 99801

RE: UAF and UAA Engineering Facilities

Dear Senator Ellis:

Since our inception in 1969, R&M CONSULTANTS, INC. (R&M) has heavily relied on the University of Alaska Anchorage (UAA) and University of Alaska Fairbanks (UAF) as a valuable source of graduate engineers, geologists, and surveyors to meet our staffing needs.

R&M is entirely based in Alaska and we pride ourselves on hiring graduates of our local universities. R&M currently has 27 UAA graduates and 13 UAF graduates on our staff. These graduates represent approximately 40% of our entire staff.

While UAA and UAF have done an excellent job of preparing young professionals for our client service needs, we are aware that current engineering facilities are dated and do not meet current space and technology requirements.

R&M strongly supports funding for UAF and UAA infrastructure, particularly a new engineering building on the UAA campus which is needed to meet our growing State's infrastructure and economic requirements.

Please contact me at your convenience with any questions on how valuable modern UAA and UAF facilities are to both R&M and the State of Alaska.

Sincerely,

R&M CONSULTANTS, INC.

Frank D. Rast, P.E.
Senior Vice President - Engineering

TANADGUSIX

Senator Johnny Ellis
State of Alaska

February, 27, 2012

Dear Senator Ellis:

On behalf of Tanadgusix Corporation, I am writing you a letter in support of the engineering facilities funding legislation for UAF and UAA. Educating and retaining Alaska students after graduation is paramount to the success of our local businesses and state economy. Tanadgusix Corporation sponsors many students, some in the engineering field, and fully supports the UA Board of Regents "Engineering Initiative".

In a Human Resources professional career that spans over 30 years in Alaska, I have seen first-hand how hiring locally educated Alaska students benefits rural economies through better understanding of the effects engineering projects have on our rural communities, both financially and culturally.

Please accept this letter of support in your continuing effort to engage the Alaska State Legislature in funding the engineering programs at our colleges and universities around the state.

Sincerely,

Robert Odenheimer
Director, Human Resources
Tanadgusix Corporation

PO Box 88
St. Paul, Alaska 99660
907.546.2312
Fax 907.546.2366

tanadgusix.com

615 E 82nd Ave, Suite 200
Anchorage, Alaska 99518
907.278.2312
Fax 907.278.2316

I support SB 107 providing funding for the UAA Engineering Building.

Alaska engineers are an integral resource for continued economic growth in our State. As a long time manager of an Alaska based engineering staff, I have found engineers educated in Alaska not only become great employees but also, just as important, stay in Alaska. Filling our engineering ranks is often difficult if not at time impossible with the limited resources available.

The current facilities at UAA are extremely inadequate when addressing the growing number of engineering students. Engineering student head count has doubled at UAA since 2005 and ranks at the bottom in the nation on facility resources per student. I believe with a notable improvement in the UAA engineering program, a greater number of Alaska high school graduates will choose the local education option.

I believe a strong Alaska based engineering workforce is the foundation to State's economic future.

Please support SB 107

John J Lau PE

Director Transmission Operations

ENSTAR Natural Gas

Work 907-264-3736

Cell 907-244-3980

John.Lau@enstarnaturalgas.com

AMC ENGINEERS

April 5, 2011

The Honorable Senator Johnny Ellis
Senate Education Subcommittee Chair
State Capitol, Rm 119
Juneau, AK 99801-1182

via email to: Senator_Johnny_Ellis@legis.state.ak.us

RE: Senate Bill SB 107

SUBJ: Yes for New Engineering Buildings for UA

Dear Senator Ellis,

Thank you for sponsoring SB 107 which makes special appropriations for new University of Alaska engineering buildings in Anchorage and Fairbanks.

As professional engineers, we have been in business in Alaska for 30 years now. During that time our single greatest challenge has been finding and retaining qualified engineers to live and work in Anchorage. The problem has only recently begun to change with the expansion of the University of Alaska's mechanical and electrical engineering programs, but they are seriously constrained by the lack of facility infrastructure.

For example, the Engineering Building at UAA was built in the 1970's and has struggled for credibility for forty years. The engineering laboratory spaces are grossly undersized and outdated. Frankly, a student could find better mechanical and electrical engineering laboratory facilities just about anywhere else in the nation. Further, the total existing engineering teaching space at UAA is only large enough to support one third of the actual need!

Alaska cannot grow without engineers, so funding of these much needed engineering building projects should be one of the very highest priorities for the State of Alaska. Please share this letter with your colleagues and encourage them all to support SB 107 and other related legislation to significantly upgrade the engineering buildings at the University of Alaska.

Sincerely,

AMC ENGINEERS

Boyd Morgenthaler, P.E.
Principal Mechanical Engineer

Pat Cusick, P.E
Principal Electrical Engineer

cc via email:

Senator Lesil McQuire, Senate Finance Committee (Boyd's Senator)
Senator Kevin Meyer, Senate Education Committee Co-Chair (Pat's Senator)

Adams, Morgenthaler and Company, Inc.
701 East Tudor Road • Suite 250 • Anchorage, AK 99503
fax 907-257-9191 • info@amc-engineers.com • phone 907-257-9100

From: Ben Walker [mailto:benjamin.walker.ieee@gmail.com]
Sent: Monday, April 04, 2011 11:36 AM
To: Sen. Lesil McGuire
Cc: Sen. Johnny Ellis
Subject: Support for SB107: Engineering Building at UAA

Hello Senator Lesil McGuire. I am a resident in the Sand Lake Area and a student at UAA in the School of Engineering. I ask that you support this bill. After 4 years it is very clear that we need better facilities for engineering education.
There is a lack of proper lab space and insufficient/inappropriate classrooms available. For example, having a programming course in a room without computers to learn/practice on.

Thank you for your consideration.

Ben Walker

From: Julia DelSignore [mailto:jgirl602@gmail.com]
Sent: Monday, April 04, 2011 5:53 PM
To: Sen. Albert Kookesh; Sen. Bert Stedman; Sen. Bettye Davis; Sen. Bill Wielechowski; Sen. Cathy Giessel; Sen. Charlie Huggins; Sen. Dennis Egan; Sen. Fred Dyson; Sen. Gary Stevens; Sen. Hollis French; Sen. Joe Paskvan; Sen. Joe Thomas; Sen. Johnny Ellis; Sen. Kevin Meyer; Sen. Lesil McGuire
Subject: UAA New Engineering Bldg SB 107

Senators,
I'm a mechanical engineering student at UAA. The new engineering facilities proposed in this bill, SB 107, are essential to my higher education. More classrooms and laboratories are needed to support current enrollment and expand the program to include Master of Science in Engineering degrees.
Thank you for your attention.

- Julia DelSignore, current UAA student, Mechanical Engineering

From: Michael Maryjanowski [mailto:memaryjanowski@alaska.edu]
Sent: Monday, April 04, 2011 5:05 PM
To: Sen. Albert Kookesh; Sen. Bert Stedman; Sen. Bettye Davis; Sen. Bill Wielechowski; Sen. Cathy Giessel; Sen. Charlie Huggins; Sen. Dennis Egan; Sen. Fred Dyson; Sen. Gary Stevens; Sen. Hollis French; Sen. Joe Paskvan; Sen. Joe Thomas; Sen. Johnny Ellis; Sen. Kevin Meyer; Sen. Lesil McGuire
Subject: UAA Engineering Building

Dear Public Servant of Alaska :

I'm a senior mechanical engineering student at UAA and with 5 years of engineering education here at UAA I can honestly say that the facilities proposed in the SB 107 bill are essential to future of engineering education here in Alaska. More classrooms and laboratories are needed to support current enrollment as well as expand the program to include a Masters of Science in Engineering, degree program.

The need for this building is sever.
This state not only needs engineers, but (in my opinion) it needs to promote higher education period.
This state has more resources than an other in the union, and it rivals those of most industrialized countries. These resources are not just the natural ones, but also that of it's people. An engineering building will allow for students like myself to learn the pertinent information needed to not only make better use of our states resources but also serve our community for the better.

Thank you for your attention and hopefully your support!
The return on an investment such as this is priceless!

A Concerned Student,

Mike

Good morning.

I'm a mechanical engineering student at UAA. The new engineering facilities proposed in this bill are essential to my higher education. More classrooms and laboratories are needed to support current enrollment and expand the program to include Master of Science in Engineering degrees.

The current facilities we have are so old and depressing, to be honest. It's supposed to be my building and I don't even like going there. I want a building of which we/I can be proud.

Thank you for your attention.

Rebecca Lewallen
University of Alaska Anchorage
Student - Mechanical Engineering

From: Eric Rodgers [mailto:erodgersmusic@gmail.com]
Sent: Monday, April 04, 2011 3:06 PM
To: Sen. Albert Kookesh; Sen. Bert Stedman; Sen. Bettye Davis; Sen. Bill Wielechowski; Sen. Cathy Giessel; Sen. Charlie Huggins; Sen. Dennis Egan; Sen. Fred Dyson; Sen. Gary Stevens; Sen. Hollis French; Sen. Joe Paskvan; Sen. Joe Thomas; Sen. Johnny Ellis; Sen. Kevin Meyer; Sen. Lesil McGuire
Subject: UAA Engineering Building.

Dear Senator,

My name is Eric Rodgers and I'm a mechanical engineering student at UAA. Soon to be discussed on the senate floor is SB 107, allowing the construction of a new engineering building at UAA. Right now UAA is in dire need of that building. Most of my classes are scattered around campus, many of our labs are drastically outdated using gear purchased in the 80s, not to mention the square footage we have to simply study leaves us cramped and crowded. Logically having more classrooms and laboratories are needed to support the current enrollment however it is also important to expand the program to include Master of Science in Engineering degrees. I am asking for your support on SB 107over the next few weeks.

Thank you for your attention.

--
Eric Rodgers
(907) 903-8388
erodgersmusic@gmail.com

February 24, 2012

Senator Johnny Ellis
State Capitol Room 119
Juneau, AK 99801

Dear Senator Ellis,

I am a 13 year resident of the state of Alaska and an active member of my community. I received my bachelor's degree in engineering in 1991, am registered professional engineer in Alaska, and am employed as a civil engineer in the Anchorage office of Michael Baker Jr. Engineering, Inc.

The purpose of this letter is to urge you to support the continuation of funding to design and construct the necessary engineering facilities at UAA and UAF now. I support the expansion of UA engineering facilities.

I am often involved with hiring engineering staff. In the past I have hired Outside engineers. While these individuals were qualified and capable staff, many of them remained in Alaska for only a year or two before relocating back to the Lower 48. Hiring and developing professional staff is a significant cost for firms.
Given a choice of qualified individuals, I would prefer to hire those with an Alaskan background. Funding continued design and construction of additional UA engineering facilities will ensure that Alaska continues to meet the demand for qualified engineers.

Thank you for your consideration of this request. It is important to me, my company, our industry and the state of Alaska.

Sincerely,

Derek Christianson
Senate District P
House District 31

26 February 2012

Members of the Alaska State Legislature
Alaska State Capitol Building
Juneau, Alaska 99801

RE: Capital Funding for UA Engineering buildings

Dear Members of the House and Senate:

I am a 27 year resident of the State of Alaska, the mother of three Alaskans planning to make their lives here as adults, and an active member of my community, especially in my profession, Architecture. I received my Master of Architecture degree in 1985 from the University of Orgeon, became a registered architect in the State of Alaska in 1990, and started my own architecture firm, Blue Sky Studio, in 2002. I have served on the AIA Alaska Board for ten years, and currently serve on the UAA School of Engineering Advisory Board.

My purpose is to urge you to support the continuation of funding to design and construct the necessary engineering facilities at UAA and UAF now. Both campuses are underserved at the present time, and to meet demonstrated future need for engineers in the state (projected at 50 new jobs per year, plus an additional 70 jobs opening up from retirement and turnover) both campuses need more space to be able to offer the necessary labs and classes to home grow these engineers.

Why the emphasis on home grown engineers? As an employer, I know how hard it is to find employees when construction is in a boom. And when there's a glut of people seeking to move to Alaska, as in recent years, you are faced with the large expense of training someone who may decide to jump ship in a year or two if the Alaska adventure turns sour for the employee or the employee's family. This is a very real cost to the business community. Equally important is the environmental awareness an Alaskan brings to the design and construction industry. The learning curve is less steep for someone who has already spent years dealing with the complications of our climate and remote location.

As a parent, I am would like to add how very excited I am about what is happening at UAA. Three of my nephews started school outside, and ended up finishing their degrees at UAA – one in engineering, and two in the construction management program. My daughter started in the WWAMI program this fall. The school is becoming a brain trust for the community, in the same way the UAF has long been for Fairbanks. I would love to see growth in town/gown partnerships in enginnering, construction, design, IT, telecommunications and bio-medical engineering, but we don't have room for the students currently seeking to enroll in existing programs.

BLUE SKY STUDIO
6771 Lauden Circle Anchorage AK 99502-9873
907 677 9078 catherine@callbluesky.com

The UA Board of Regents has set the Engineering buildings as their next capital priority. This is going to be a long and expensive process. The cost to fulfill a need of this magnitude needs to be spread over several fiscal years. We tend to focus on our "natural" resources – oil, timber, fish, minerals. Let's not forget to invest in our greatest natural resource – the minds of our community.

Thank you for your consideration of this request. It is important to me, my company, our industry and the state of Alaska.

Sincerely,

Catherine Call

House District 27
Senate District N

Cc: Senator Johnny Ellis
Senator Lesil McGuire
Representative Mia Costello
Representative Les Gara
Orson Smith, Interim Dean, UAA SOE
Richard Reich, Chair, UAA SOE

BLUE SKY STUDIO
6771 Lauden Circle Anchorage AK 99502-9873
907 677 9078 catherine@callbluesky.com

AIA Alaska
A Chapter of the American Institute of Architects

August 14, 2010

Mr. Patrick Gamble
President, University of Alaska
P.O. Box 755000
Fairbanks, AK 99775

RE: Architectural Education in Alaska

Dear President Gamble:

Since the mid-seventies the Alaska Chapter of the American Institute of Architects (AIA Alaska) has worked with the University of Alaska to foster architectural education in Alaska. Current AELS Licensing Board member Harley Hightower worked with UAA Professors Linn Bauer and Jo Frankfurth in the 1980s to revamp the Architectural Engineering Technology program at UAA. More recently, Harley and fellow AIA Alaska members Ken Maynard and Jon Kumin developed the UAA Northern Design Course, ES A411, a requisite course for licensure in architecture and engineering compiling years of professional experience on the impact of Alaska climate extremes in construction. Most recently, instructors of this course have worked with UAA Distance Education to record the individual sessions for asynchronous remote education opportunities.

Over the past three years Krista Phillips and I have continued to promote AIA Alaska's mission to develop options for an architecture degree program with the University of Alaska. Krista has served nationally on the NAAB (National Architectural Accrediting Board) since 2005 and regularly performs accreditation reviews at architecture schools across the country. She knows what is required to initiate and accredit an architectural program within a university setting.

We believe the development of new facilities for the School of Engineering presents a rare opportunity for the University of Alaska to expand current educational programs to offer an undergraduate pre-professional architecture degree program. Nearly half (45%) of the classes required for an architecture degree program are already in the UA curriculum; with the addition of design studio classroom space and access to lecture facilities a full program could easily be developed. We envision a small program under the umbrella of the School of Engineering, one which builds on the current curriculum offerings in the AET program and the School of Engineering by adding design studios, architectural history and construction methods to the current curriculum.

Why develop an architecture program in Alaska? First, the expanded offerings will provide additional opportunities for your students. Presently, students in the AET program have to leave the state for the balance of their professional architectural education, or choose an engineering or construction management degree program. With the development of an architecture department, students could

P.O. Box 244141
Anchorage, Alaska 99524-4141
907-276-2834
www.aiaalaska.org

begin their pursuit of a professional architecture degree within the UA system. Courses in architectural design and construction methods would also enrich the education paths of your engineering and project management students.

Second, Alaska is a unique laboratory for the study of rapidly changing climatic conditions. We believe that the University could easily build on the resources and knowledge of the Cold Climate Housing Research Center (CCHRC) and the Barrow Climate Change Research Center to develop a post-professional degree research program for architects and engineers to collaborate and advance design in Arctic regions. We also see UA building research connections throughout the Pacific Rim for the development and implementation of alternative energy resources for a sustainable future.

Third, the design and construction communities of Alaska become creative advocates of design-build and design-assist project delivery methods. Alaska has much to teach in terms of integrated project delivery and BIM (Building Information Modeling). The addition of design education to the Construction Management offerings currently available will ensure a steady supply of broadly educated designers, engineers and construction managers as they benefit from the opportunity to learn about related disciplines while in school.

Finally, as a community of professionals, we are desperate for a source of local talent. Over the years architecture firms have had trouble finding and recruiting qualified architects, much less Alaskan architects. We often have to hire candidates with non-accredited degrees. Ultimately we would love to see a full, NAAB accredited architecture degree program in the UA system; the first step would be to plan for design studio space and develop a curriculum for a four year architecture major under the umbrella of the Schools of Engineering.

Krista, Harley and I seek to meet with you while you are in Anchorage to discuss how we could assist the University in expanding its architecture curriculum. We have prepared a white paper (copy attached) that describes the requirements for three different levels of architectural education, as well as the role and requirements of NAAB for eventual accreditation.

On behalf of the Alaska Chapter of the American Institute of Architects, I thank you for your time and consideration of our desire to foster formal architectural education within the state of Alaska.

Sincerely,

Catherine Call
AIA Alaska 2010 President

Cc: Krista Phillips, AIA
Harley Hightower, AIA

From: Kinney, Donald Gregory [mailto:Donald.Kinney@alyeska-pipeline.com]
Sent: Monday, February 27, 2012 12:58 PM
To: Sen. Johnny Ellis; Sen. Hollis French
Subject: UAA and UAF engineering buildings

Senators Ellis and French,
I would like this note to add to those in support of funding new engineering buildings at both UAA and UAF. While the existing buildings have served the students well in past years, they lack capacity and functional adequacy for the current and projected future demands. I appreciate your support for this initiative. Thanks very much.

Greg Kinney
2200 Sonstrom Drive
Anchorage, Alaska 99517-1018

From: zae@gci.net [mailto:zae@gci.net]
Sent: Monday, February 27, 2012 9:46 AM
To: Sen. Johnny Ellis
Subject: Support for University of Alaska Engineering Buildings

Senator Ellis

I am very much in support of new engineering instructional facilities for both the Anchorage and Fairbanks campuses. We need to increase the number of new engineers in Alaska. By having excellent engineering programs at both UAA and UAF we will be able to keep the exceptional high school students at home for their engineering education. My experience has been that hiring Alaska trained engineers are the best investment as they know what living in Alaska is all about and they have the work ethic to be successful.

John P. Zarling, Ph.D., P.E.
Zarling Aero and Engineering
1958 Raven Dr.
Fairbanks, AK 99709
907 479-6525 (office)
907 347-1447 (cell)

February 27, 2012

Senator Johnny Ellis
Alaska State Legislature
Alaska State Capitol Building
Juneau, Alaska 99801

Dear Senator Ellis:

As Chair of the University of Alaska Fairbanks College of Engineering and Mines – Advisory and Development Council, I am writing to express our full support for sustaining and enhancing the Engineering programs of the University of Alaska.

With this letter, we urge you to support the continuation of funding to design and construct the necessary engineering facilities at both campuses, UAA and UAF. As members of industry we recognize that:

- *Engineering graduates are in high demand in this state, and the need exceeds the demand.*
- *While we have fine programs, our current facilities are lacking in space, equipment and technology to provide state-of-the art instruction required by our students.*
- *Alaska faces a shortage of qualified engineers. To respond to the state's need, the University of Alaska Board of Regents set a priority to more than double the annual number of baccalaureate graduates to 200 by FY14.*
- *The Alaska Department of Labor's current projections through 2018 indicate an average of 50 new engineering jobs will be available each year, plus another 70 openings from annual turnover and retirement.*
- *As employers, we prefer to hire UA graduates, as they are more likely continue with careers in Alaska.*

Also, I personally, as an engineering professional in Alaska for the past 27 years, fully appreciate the important mission of the University of Alaska to provide career opportunities for Alaska students while contributing towards a vibrant economy.

On behalf of the UAF CEM Advisory & Development Council, your consideration and support is much appreciated.

Sincerely,

Gordon Pospisil
UAF CEM ADC Chair

3001 McCollie Avenue,
Anchorage, Alaska 99517

January 22, 2012

The Office of Senator Johnny Ellis
State Capitol Building, 119
Juneau, AK 99801

Dear Senator Ellis:

I have been in Alaska for four years and in telecommunications engineering for almost 25 years. I received my bachelors in engineering from Texas A&M University.
My entire time in Alaska I have been employed by Alaska Communications, leading various technical organizations – Engineering, Field Operations, Information Technology. One of our biggest challenges is finding educated, qualified engineers and technologists in Alaska. Today a very high percentage of our new hires are coming from Outside, increasing our costs and giving great employment opportunities to non-residents.
The purpose of this letter is to urge you to support the continuation of funding to design and construct the necessary engineering facilities at UAA and UAF now. This is important for a number of reasons:

- *Engineering graduates are in high demand in this state, and the need exceeds the demand.*
- *Key programs such as telecommunications engineering and Information Technology four year programs are not in place and infrastructure does not currently exist to implement these programs.*
- *Current facilities are lacking in space, equipment and technology to provide state-of-the art instruction required by our students.*
- *Alaska faces a shortage of qualified engineers. To respond to the state's need, the University of Alaska Board of Regents set a priority to more than double the annual number of baccalaureate graduates to 200 by FY14.*
- *The Alaska Department of Labor's current projections through 2018 indicate an average of 50 new engineering jobs will be available each year, plus another 70 openings from annual turnover and retirement.*
- *We prefer to hire UA graduates, as they are more likely to remain in Alaska and are already familiar with Alaska, its culture, its opportunities and its challenges. Graduates from both UAA and UAF are essential.*

Thank you for your consideration of this request. It is important to me, our company, our industry and the state of Alaska.

Sincerely,

Michael Todd
Senior Vice President, Engineering and Operations
Alaska Communications

Senator Ellis,

Please consider this email as my support statement for the SB-107 and the funding of New Engineering Facilities at the campuses of Anchorage and Fairbanks for the University of Alaska.

As a registered professional Civil Engineer that continues to practice in the State of Alaska for almost 45 years, I have seen the value of engineers that have graduated from the University of Alaska. These graduates are here because they want to be and begin their professional careers with a knowledge base of Alaska conditions that contributes to their designs from the start.

The University of Alaska needs to have the opportunity to continue to develop programs that college students are seeking in the development of their knowledge base and the skills to meet the demands of today's present and future work place requirements. In order to meet these requirements, the University of Alaska should have modern facilities with space to grow and incorporate current and future instructional equipment. If the pace of staying current with today's growing technology does not occur, then the University could face the reality of falling behind other Institutions of High Education. If this happens, our Alaska High School graduates will look elsewhere for their education and the University of Alaska's recruitment of students from other states may be impacted as well.

Thank you for the opportunity to comment and provide my support to this important legislation for the University of Alaska and most importantly, thank you for your continuing support of the University and your sponsorship of this important bill.

Dale

Dale A. Nelson, P.E., F.ASCE
Email: dale.nelson@gci.net
Cell: 907-947-1855

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
ETHAN PERRY		(907) 229-7266	03/04/09
Colleen Wilt		(907) 310-1254	03/04/09
Kimi GONZALEZ		(907) 3100-9216	3/4/09
CINDY CLUCHEY		907-529-7335	3/4/09
Brandon Telford		907-841-4339	3/4/09
Ashley Fairbanks		907-744-8224	3/4/09
WESLEY PHELPS		907-299-4299	3/4/09
Rusty Allen		406-880-9004	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
Brian O'Donnell		907-223-6959	3-4-09
Mahear AbouEid		907-350-6777	3-6-09
Galen Jones		(907) 830-4364	3/6/09
Matthew Majoros		(907) 244-3944	3/6/09
STEVEN CLARK		(907) 440-4919	MAR 6 2009

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
Michael Blahut		doogmc@yahoo.com	18 Mar 09
Tessa Kara	Tessa M Kara	astmk@uaa	3-18-09
Benjamin Walker		wbhima@hotmail.com	3-18-09
Seth Campbell	Seth Campbell	asjuc9@uaa.alaska.edu	3/18/09
DREW Collins		DREW_motohead@hotmail.com	3.18.09
Brian Oliver		928-814-3766	3/18/09
Sharon Oyao		sfoyao@gmail.com	3/18/09
Ossip Camahuali		asoic@uaa.alaska.edu	3/18/09
Thomas Van Thiel		tvanthiel@gmail.com	3/18/09
Courtney Kelly		court keil@gmail.com	3/18/09
James Jobkar		asjrj21@uaa.alaska.edu	3-18-09
Dustin Coolidge		Dustin Coolidge@Gmail.com	3-18-09
Daniel Hoffman		asdjh46@uaa.alaska.edu	3/18/09
Max Greenstein		maxgreenie11@yahoo.com	3/18/09
TienChing Peng		astp17@uaa.alaska.edu	3/18/09
Truman Edin		astye2@uaa.alaska.edu	3/18/09
Kristine Sy		astks57@uaa.alaska.edu	3/18/09
Taylor Karnikis		astmk19@uaa.alaska.edu	3/18/09
Mike Rudd		asmjr32@uaa.alaska.edu	3/18/09
Kyle Menzel		askml8@uaa.alaska.edu	3-18-09

To: Governor Sarah Palin and Alaska State Legislators

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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		asql@uaa.alaska.edu	3/16/09
RUEL C. BINONWANGAN		asrcb20@uaa.alaska.edu	3/16/09
Magdalena Budzyn-McAleenan		mcaleenan@o2.pl	3/17/09
Christopher Wiebe		we.he.00@gmail.com	3/17/09
AUDREY ALSTROM		asada12@uaa.alaska.edu	3/17/2009
Kartezhnikova Maria		asmek16@uaa.alaska.edu	03/17/09
Cory Morse		ascjm50@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		aslgn1@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
Rangell Soriano		asrcs13@uaa.alaska.edu	3/17/09
Isatou Njie		asibn@uaa.alaska.ed	3/17/09
Peter Yoo		907) 223-0448	3/17/09
Richard Regalado		(907) 227-2824	3/17/09
Olga Yagudina		(907) 441-2990	3/17/09
Nicholas Warton		asnjw5@uaa.alaska.edu	3/17/09

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
STEPHANIE PLATE	Stephanie Plate	issjm2@UAA.ALASKA.EDU	3-6-09
Hugh Keogh	HM Kg	(907) 227-1665	3/6/2009
DONALD R. JOURDIAN	Donald R Jourdian	ekiutnaq@mtaonline.net	3/6/09
Inho Chung	[illegible]	(907) 947-9574	3/6/09
Leif Wycoff	Leif Wycoff	907-373-6330	3/6/09
Ivan Chikigak-Steadman	[illegible]	ivan@uaa.alaska.edu	3/6/09
Benjamin Still	[illegible]	907-230-9897	3/6/2009
Lee Bolling	Lee Bolling	907-301-5935	3/6/09
R. LANCE OVERSTREET	R Lance O	907-748-2936	3/6/09
David Cooper	[illegible]	907 230 9211	3/6/09
Robert DeVassie	[illegible]	907 269-0587	3/6/09
STEVEN BENTZ	[illegible]	907-715-7095	3/6/09
WILL KEMP	WM. [illegible]	907-301-4012	3/6/09
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Jamie Marunde	Jamie Marunde	vsjmm9@uaa.alaska.edu	3/6/09
JAMES HAYDEN	James Hayden	LIVEZFISH@AOL.	3/6/09

To: Governor Sarah Palin and Alaska State Legislators

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ALEX DAUTISTA	[illegible]	217-301-9212	3/17/09
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Richard Regacho	Richard Regacho	907-277-2864	3/18/09
Malissa Suson	Malissa Suson	907-723-1404	3/18/09

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Rys Miranda	[illegible]	asrbm@uaa.alaska.edu	3/18/09

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
James Gwynn		382-1455	3-17-09
DANE KETNER		529-7585	3-17-09
JAMES MARSHALL		229-4254	3-17-09
Mila Miller		632-0837	3/17/09
Kyle Menzel		240-4471	3-17-09
Timothy Risi		350-4732	3-17-09
Sunil Panthi		310-7376	3-17-09
Mathew Lund		3607372	3/17/09
ROLAN BAGUYOS		947-2167	3/17/09
Greg Geigel		344-3415	3/17/09
Larry Jones		863-5001	3/17/09
Angus Bromaghin		336-6186	3/18/09
Dae Kim		884-0259	3/18/09
Eric Rovaris		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 Maillelle		cmaille621@gmail.com	3/18/09
Tim Menard		astsm12@uai.alaska.edu	3/18/09

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Name	Signature	Email or Phone Number	Date
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Edmund Parvin Jr		asjepll@uaa.alaska.edu	03/26/09
GARY BIRGE		GARY.L.BIRGE@USACE.ARMY.mil	3/26/09
B. RASHED		asbmr15@uaa.alaska.edu	3/26/09
Kaustav Kakati	K. Kakati	rskk23@uaa.alaska.edu	3/26/09

Dear Senator Ellis and senators,

We would like to thank you for sponsoring S.B. 107: Appropriation for University Engineering Buildings and give our support for this legislation. As UAA engineering students, these new facilities would greatly expand the scope of our educational opportunities.

We know Alaska's economy is technology driven and that professional engineers have a crucial role to play in our state's future. The appropriations in S.B. 107 will provide for the creation of vital infrastructure in the support of our state's scientific resources.

All of the undersigned students and instructors have read this letter and wish to see this legislation enacted. We believe this engineering building is essential to our continued education and the further development of the state of Alaska.

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Joseph Mixsell		1-907-786-1165	4-5-11
Tyler Corey		1-907-887-6214	4-5-11
Jeremy Maxie		907-952-4399	4-5-11
Ben Walker		907-317-9081	4-5-11
Alexander Bantista		907-301-9212	4/5/11
Jose Denrie Enriquez		(907) 223-8150	4/5/11
amanda edades		907.268.0499	4/5/11
Kristine Sy		907-250-9183	4/5/11
Claire Goldsmith		(907) 727-6227	4/5/11
JARED TEE		(907) 227-5270	4/5/11
Andrew Cochrane		(907) 764-5629	4/5/11
Kristal Upchurch		(907) 242-3687	4/5/11
Scott McClure		(907) 440-9699	4/5/11
Joe Daley		(907) 688-4600	4/5/11

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Jonathan Cebuhar	Jonathan M. Cebuhar	MasterJMCJK@yahoo.com	4/5/2011
Camie Pederson	Camie Pederson	camierae@hotmail.com	4/5/11

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Name	Signature	Contact	Date
Cody Dossett		230-3125	4/5/11
Karlee Olsen		264-1323	4/5/11
William Sharrow		952-7045	4/5/11
Daniel W. McBride		dwmcbr.de@alask.edu	4/5/11
Ivisko Edino		9077271448	4/05/11

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Name	Signature	Contact	Date
Daniel Lamson	Daniel Lamson	907-[illegible]-4551	4/5/11
KIMBERLY FREY	Kimberly Frey	907-223-2550	4/5/11
Peyton Reid	Peyton Reid	907-349-5159	4-5-11
Gwen Francis	[illegible]	907 310-2889	4/5/11
Todd Johnson	[illegible]	907-317-9187	4/5/11
Cody Williams	[illegible]	907-317-0525	4/5/11
Ryan McClain	Ryan McClain	907-242-7567	4/5/11
Conor Mullin	Conor Mullin	907-854-4942	4/5/11
Adrian Kalmon	Adrian S. Kalmon	(901) 674-0281 cell	04/05/11

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Ben Walker	[illegible]	907-317-9021	4/5/2011
Jose Sueltone	Jose M. Sueltone	907 242 7435	4/5/2011
Phillip Pletnikoff	[illegible]	907-317-7000	4/5/2011
Roberto Escalante	[illegible]	907-764-0479	4/5/11
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Yasmin thompson	[illegible]	907 841 8408	4/5/11
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Joseph Aulive	Joseph Aulive	907-317-6362	4/5/11
Jeremiah Stack	[illegible]	907 751 5778	4/5/11
Michael Dunhoff	[illegible]	907-632-2424	4/5/11
Douglas Craig	Douglas Craig	907-230-7664	4/5/11

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Dillon Salsman-Fleeley	[illegible]	dillon.salsman@gmail.com	4/6/11

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Spencer Allen	Spencer Allen	907-347-5148	4/5/11
Sivisko Edino		907 727144	4/5/11
KYLE RUSSEL GIRON	Kyle Russel Giron	907 602 7816	4/5/11
Frazer Tee		907 947 1090	4/5/11
McCutcheon, Finn		907 350 6423	4/5/11
Jeremy Porter		351-1514	4/5/11

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