

**Herb Ilisaurri Schroeder, Ph.D.**  
*University of Alaska Anchorage*  
*ANSEP Building*  
*Anchorage, Alaska 99508*  
*(907) 786-1860 hpschroeder@alaska.edu*

## **Education**

*Ph.D. Civil Engineering, 1991*

University of Colorado, Boulder, Colorado

Thesis Title: *DYCAM 1.0: Dynamic Construction Activity Model, A Decision Support Tool for Construction Planning*; Advisor: James Diekmann, Ph.D.

*M.S. Civil Engineering, 1988*

Oregon State University, Corvallis, Oregon

*B.S. Mechanical Engineering, 1981*

University of Alaska Fairbanks, Fairbanks, Alaska

## **Recognitions and Honors**

*George Norlin Award*, University of Colorado Boulder, the top award presented annually by the CU Boulder Alumni Association to honor alumni for distinguished lifetime achievement in their chosen field of endeavor and devotion to the betterment of society and their communities, October 25, 2018.

*Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring*, with President George W. Bush in the Oval Office, May 16, 2005. Administered by the National Science Foundation for the Executive Office of the President of the United States, Office of Science and Technology Policy. \$10,000, Award # 0430112.

*Denali Award*, Alaska Federation of Natives (AFN), the highest award presented by the Federation to a non-Native. Presented in recognition of my work aimed at effecting a systemic change in the hiring patterns of Alaska Natives in the engineering and science professions. Awarded at the AFN Convention, October 2005.

*Herbert P. Schroeder Endowed Chair of the Alaska Native Science and Engineering Program (ANSEP)*, established in October 2008.

*Reginald H. Jones Distinguished Service Founder's Award*, National Action Council for Minorities in Engineering, Inc. (NACME), New York City, September 29, 2009.

*Top Seven Finalist 2018 Innovations in Government*, Ash Center for Democratic Governance and Innovation, John F. Kennedy School of Government, Harvard University, July 23, 2018.

*Most Exceptional Program in STEM Education and Workforce Development*, U.S. Department of Energy, Minorities in Energy Initiative (MIE), November 18, 2014.

*Partners in Conservation Award*, U.S. Geological Survey Alaska Area Science Center and the Alaska Native Science & Engineering Program for exemplary collaborations between Department of the Interior, its Bureaus and organizations across the country that take innovative approaches towards conservation of America's public lands and resources, presented by U.S. Department of the Interior Secretary Sally Jewell in Washington D.C, January 16, 2014.

*Top 25 Innovations in Government*, Ash Center for Democratic Governance and Innovation, John F. Kennedy School of Government, Harvard University, May 1, 2013.

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**Recognitions and Honors (cont.)**

*Public Relations Society of America (PRSA), Alaska Chapter, Grand Award of Excellence*, Thompson & Co. Public Relations and Channel Films spotlighting the Alaska Native Science & Engineering Program's new Acceleration High School program illustrating the inspiring power of video, storytelling and Alaska's youth. The team was Liz Baker, Nikkie Viotto, Dr. Herb Schroeder, Michael Bourdukofsky and Michael Ulroan, Anchorage, Alaska, September 14, 2017.

*28th Alaska State Legislature Citation*, Alaska Native Science & Engineering Program for transforming the education and economic opportunities for Alaska Natives and others, February 28, 2013.

*Council for Advancement and Support of Education (CASE) District VIII Communication Award*, Silver, Funding Raising and Events Publications, 2009 Alaska Native Science and Engineering Program: Report to the Partners, University of Alaska Anchorage, with Gary Adams, February 16, 2010.

*American Architecture Award*, The Chicago Athenaeum Museum of Architecture and Design together with The European Centre for Architecture Art Design and Urban Studies. The ANSEP Building was one of 66 structures selected in 2008, out of 1,000 submittals.

*Case Study Prize*, finalist, Alaska Native Science & Engineering Program, RIM First People, RIM Architects, AIA NW + Pacific Regional Case Study Conference: Knowledge by Design, Seattle Washington, August 6, 2005.

*Chancellor's Awards for Excellence: Outstanding Achievement in Working with External Partners*, for work with ANSEP partners, University of Alaska Anchorage, 2001. *Outstanding Contributions to Students* for work with Alaska Native engineering students, University of Alaska Anchorage, 1999.

**Academic Experience**

1995 to Present     *Vice Provost (2010), Executive Director and Founder (1995) for Alaska Native Science & Engineering Program (ANSEP), University of Alaska Anchorage (UAA)*  
Responsibilities focus on catalyzing management and leadership opportunities aimed at effecting a systemic change in the hiring patterns of Indigenous Americans in the science, technology, engineering, and math (STEM) professions. Longitudinal research efforts concentrate on developing programmatic components through partnerships with organizations inside and outside the university to increase university recruitment and retention rates through hands-on pre-college outreach initiatives, rigorous summer bridging programs, focused academic learning communities, organized student cohorts, effective peer and professional mentoring, community based learning, structured professional internships, undergraduate research, and graduate school programs.

2005 to 2010     *Associate Dean, School of Engineering, UAA*

2005 to Present     *Professor, Civil Engineering, College of Engineering, UAA*

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**Academic Experience** (cont.)

- 2017 to Present *Co-Principal Investigator and Executive Director, National Science Foundation (NSF) Louis Stokes Alliances for Minority Participation (LSAMP) Alaska Alliance*  
The project goals are to build upon the NSF Alaska Alliance work in progress at the transitions between high school and college, and from undergraduate to graduate school; provide new LSAMP staff personnel on Alaska Alliance campuses; expand the capacity for undergraduate research and build the capacity to conduct international research; strengthen LSAMP presence on the Alaska Alliance community campuses; and conduct internal and external research studies assessing the longitudinal model effectiveness. Award July 15, 2017 through 2022.
- 2017 to Present *Principal Investigator, Broadening Participation: An Alaska Native Science & Engineering Program Dissemination Conference, National Science Foundation Division of Engineering Education and Centers*  
Award September 19, 2017 through 2019.
- 2008 to Present *Director, ANSEP Graduate Success Component for University of Alaska*  
Created the ANSEP Graduate Success component beginning in Fall 2008, with Alfred P. Sloan Indigenous Graduate Partnership (SIGP) funding. UAA and UAF ANSEP students can earn fellowships and tuition support through ANSEP for approved STEM master's and PhD degrees.
- 2012 to 2017 *Principal Investigator and Executive Director, National Science Foundation Louis Stokes Alliances for Minority Participation (LSAMP) Alaska Alliance Senior Level, at University of Alaska Anchorage (UAA)*  
Leading the further development of the NSF LSAMP Alaska Alliance that is successfully transferring UAA recruitment, retention, and placement programs in undergraduate STEM fields to the University of Alaska Fairbanks (UAF) and strengthening presence on Alliance campuses. Responsibilities include organization leadership, extensive fundraising for all institutions, program coordination, data collection, data analysis, equipment acquisition, and reporting.
- 2009 to 2017 *Senior Administrator, ExxonMobil Bernard Harris Summer Science Camp (EMBHSSC) hosted by ANSEP at UAA*  
The EMBHSSC was a two-week residential STEM camp at colleges and universities across the nation. UAA recruited qualified middle school students from across Alaska to attend each August. Program ended in August 2017.
- 2001 to 2013 *Executive Director, Indigenous Alliance for Engineering & Science Education at UAA (formerly named the Pacific Alliance)*  
Led the development of the *Indigenous Alliance* as an expansion of the previous work with the Pacific Alliance. The Alliance included 12 higher education institutions in 9 states: University of Alaska Anchorage, University of Alaska Fairbanks, Kuskokwim Community College, University of Hawai'i Manoa, Kapi'olani Community College, University of Colorado Boulder, University of Washington, University of Idaho, University of North Dakota, South Dakota School of Mines and Technology, University of Montana, University of Arizona.

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**Academic Experience** (cont.)

- 2008 to 2013 *Principal Investigator and Project Director, Partnerships for Innovation (PFI) Program, Building on Success: Indigenous Alliance Expansion, at UAA*
- 2006 to 2012 *Principal Investigator and Executive Director, National Science Foundation Louis Stokes Alliances for Minority Participation (LSAMP) Pacific Alliance, at UAA*  
Led the development of the National Science Foundation (NSF) LSAMP Pacific Alliance successfully transferred UAA recruitment, retention and placement programs to the University of Alaska Fairbanks and the University of Washington (2006-2009). Responsibilities include organization leadership, extensive fundraising for all institutions, program coordination, data collection, data analysis, equipment acquisition, and reporting.
- 2009 to 2011 *Project Director, Continue Alaska Science & Engineering Program for Alaska Students, at UAA, Fund for the Improvement of Postsecondary Education (FIPSE) Programs, Congressionally-Directed Projects for Access, Retention, Completion.*
- 2008 to 2010 *Project Director, Alaska Native Science & Engineering Program and STEM, UAA Fund for the Improvement of Postsecondary Education (FIPSE) Programs, Congressionally-Directed Projects for Access, Retention, and Completion.*
- 2001 to 2006 *Principal Investigator and Executive Director, National Science Foundation Louis Stokes Alliances for Minority Participation (LSAMP) Pacific Alliance, at UAA*  
Led the development of the NSF LSAMP Pacific Alliance successfully transferred UAA and University of Washington recruitment, retention and placement programs to the University of Hawai'i Manoa and the University of Alaska Fairbanks. Responsibilities include organization leadership, extensive fundraising for all four institutions, program coordination, data collection, data analysis, equipment acquisition, and reporting.
- 2003 to 2006 *Principal Investigator and Project Director, TALPA II, Partnerships for Innovation (PFI) Program, at UAA*
- 2001 to 2005 *Principal Investigator and Project Director, TALPA, Partnerships for Innovation (PFI) Program, at UAA*
- 1993 to 2005 *Associate Professor, Civil Engineering, School of Engineering, UAA*
- 1992 to 1994 *Principal Investigator, National Science Foundation, Division of Undergraduate Education, Engineering Design Graphics Modernization and Collaborative Learning.*
- 1991 to 1993 *Visiting Assistant Professor, School of Engineering, UAA*
- 1990 to 1991 *Adjunct Faculty and Research Associate, College of Engineering & Applied Science, University of Colorado Boulder*
- 1989 *Term Faculty, Civil Engineering, School of Engineering, UAA*

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## **Industrial Experience**

### **Construction Consultant** (See *Consulting Activities* section for additional information)

*VECO, Inc., Anchorage, Alaska*

1984 to 1987      *Estimating Manager*

Successfully prepared detailed construction estimates and execution plans for more than 300 million dollars in awarded construction projects.

1981 to 1984      *Chief Engineer*

Responsible for leading a team of programmers and engineers in the successful development and implementation of computerized tools for project estimating, planning, and control.

1980 to 1981      *Project Manager, Cost Engineer, Project Engineer*

Summers      Responsible for small projects in Prudhoe Bay and the surrounding oilfields.

*Morrison-Knudson, Arctic Constructors*

1974 to 1977      *Construction Laborer, Crew Foreman*  
*Trans Alaska Pipeline, Section 5.*

## **University of Alaska Anchorage - Engineering**

### **Courses Instruction/Development**

*ES 111 Engineering Science/ ENGR 151 Engineering Practices I* – 3-credit freshman level required.

Redesigned this course to include a five-week section on personal development, group processes, introduction to the profession, and college success strategies using the *Studying Engineering* text developed by Dr. Ray Landis. Balance of the course involved an experiential group exercise supplemented with instruction in the fundamentals of engineering mechanics, design, planning, scheduling, estimating, software tools, and technical report development.

*ES 209 Statics* – 3-credit sophomore level required.

*ES 210 Dynamics* – 3-credit sophomore level required.

*ES 331 Mechanics of Materials* – 4-credit junior level required.

*ES 341 Fluid Mechanics* – 4-credit junior level required.

*CE 438 Design of Civil Engineering Systems* – Co-taught 3-credit senior level required

*CE 620 Civil Engineering Construction* – 3-credit graduate level elective.

*CE 684 Arctic Utility Distribution* – 3-credit graduate level elective.

*ME 687 Arctic Materials Engineering* – 3-credit graduate level elective.

*ESM 601 Engineers in Organizations* – 3-credit graduate level required. Course re-designed to include process skill development using experiential exercises, Schein group process model.

*ESM 605 Engineering Economy* – 3-credit graduate level elective.

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**Courses Instruction/Development** (cont.)

*ESM 608 Legal Environment for Engineering Management* – 3-credit graduate level elective. Course re-designed to include experiential exercises.

*ESM 609 Project Management* – 3-credit graduate level required.

*ESM 401/610 Cost Estimating* – 3-credit graduate level elective – Course re-designed to include experiential exercises. Developed as a stacked course for an undergraduate elective.

*ESM 623 Total Quality Management* – Team-taught 3-credit graduate level elective.

Co-developed *Construction Management* curriculum with Professor Ky Holland, Director, Applied Technology Division, Community and Technical College, University of Alaska Anchorage, 2002.

**Master's Thesis Supervision**

Mason, Michael, *Strength Development of Concrete Prepared with an Antifreeze Admixture and Subjected to a cyclic Freeze Thaw During Curing*, University of Alaska Anchorage, 1997.

Wagner, Dennis, *Durability of Concrete Cured with Antifreeze Admixtures Below 0°C*, University of Alaska Anchorage, 1997.

Ritz, Paul, *A Review of Rural Sanitation Practices in Alaska with Attention to Propane Toilets*, University of Alaska Anchorage, 1995.

Wood, Thomas B., *Reinforcing Steel-Concrete Bond Strength Development in Concrete Cured with an Antifreeze Admixture at Temperatures below 0°C*, University of Alaska Anchorage, 1994.

**Graduate Committees at UAA and the University of Alaska Fairbanks**

Graduate committee co-chair for Matthew Calhoun, PhD, Civil Engineering, College of Engineering and Mines, University of Alaska Fairbanks, 2014 to 2015 graduation.

Prior to 2005, graduate committee membership for approximately 50 Engineering Science Management graduate students, School of Engineering, University of Alaska Anchorage.

**Publications, Papers and Reports**

**Published Journal Articles, Book Contributions, Book Review, Dissertation**

Schroeder, Herb (2009). Case 3: Wildcat Oil in Kasastan. In *Cases in Engineering Economy*, 2nd ed. by William R. Peterson, Ted G. Eschenbach, New York: Oxford University Press, pp. 57-58.

Schroeder, Herb (2009). Case 15: Pave the Stockpile Area? In *Cases in Engineering Economy*, 2<sup>nd</sup> ed. by William R. Peterson, Ted G. Eschenbach, New York: Oxford University Press, pp. 94-95.

Schroeder, Herb (2009). Case 24: Sinkemfast. In *Cases in Engineering Economy*, 2<sup>nd</sup> ed. by William R. Peterson, Ted G. Eschenbach, New York: Oxford University Press, pp. 124-125.

Schroeder, Herb (2002). Case Contributor, *Cases in Engineering Economy*, 1st ed. William Peterson, Ted Eschenbach, New York: Oxford University Press.

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**Published Journal Articles, Book Contributions, Book Review, Dissertation (cont.)**

Gunderson, David E., Ra, Jang W., Schroeder, Herb, and Holland, H. R. (2002). *Needs Assessment – A Construction Management Bachelor of Science Degree Program in Alaska*, Journal of Construction Education, Summer 2002, Vol. 7, No. 2, pp. 86–96.

Morganthaler, George W., and Schroeder, Herb, (1997). *DYCAM 1.0: A Computer Aided Tool for the Engineering and On-Orbit Construction of Mars Spacecraft*, The Case for Mars IV: The International Exploration of Mars, Considerations for Sending Humans, Ed. Thomas R.

Meyer, American Astronautical Society, Vol. 90, Science and Technology Series, San Diego, CA: Univelt, Inc., 1997. ISBN 0-87703-420-6.

Schroeder, Herbert P., and Wood, Thomas, B., (1996). *Concrete/Reinforcement Steel Bond Strength of Low-Temperature Concrete*, ASCE Journal of Cold Regions Engineering, Vol. 10, No. 2, pp. 93-117, June 1996.

Schroeder, Herb, (1993). *Book Review, Win-Win Negotiating: A Professional's Playbook*, Engineering Management Journal, Vol. 5, No. 2, p. 43, June 1993.

Schroeder, Herb, (1992). *Approaches for Computer Integrated Construction*, Engineering Management Journal, American Society for Engineering Management, Vol. 4, No. 2, June 1992, pp. 27-34.

Schroeder, Herbert P., (1991). *DYCAM 1.0: Dynamic Construction Activity Model, A Decision Support Tool for Construction Planning*, Ph.D. dissertation, University of Colorado Boulder, United States – Colorado, 491 pages, *Dissertations & Theses*. Publication No. AAT 9132612.

Schroeder, H. P., *Waste Heat for a Village Greenhouse*, The Northern Engineer, Vol. 14. 1982.

**Professional Society Conference Proceedings and Paper Presentations**

Yatchmeneff, Michele, Schroeder, Herbert, and Calhoun, Matthew, *How to develop Alaska Native STEM students in middle school and high school*, In Proceedings of the 123<sup>rd</sup> American Society of Engineering Education Annual Conference and Exposition, New Orleans, Louisiana, June 28, 2016.

Calhoun, Matthew and Schroeder, Herb Ilisaurri, *Do It Right the First Time Student Development Not Remediation*. In Proceedings of the 6<sup>th</sup> Annual First Year Engineering Experience Conference, College Station, Texas, August 7 – 8, 2014.  
<http://fyee.org/fyee2014/papers/1040.pdf>

Schroeder, Herbert P. and Lazzell, Linda P., *A longitudinal model to increase the enrollment and graduation of Alaska Native/American Indian engineering undergraduates*. In Proceedings of the 120<sup>th</sup> American Society of Engineering Education Annual Conference and Exposition, Atlanta, Georgia, June 24, 2013.  
<http://www.asee.org/public/conferences/20/papers/7908/view>

Wagner, Dennis J. and Schroeder, Herbert P., *Durability of Concrete Cured with Antifreeze Admixtures at Temperatures Below 0°C*, pp. 99-102. Presented at the 5th International Symposium on Cold Regions Development (ISCORD), Anchorage, Alaska, May 1997.

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**Professional Society Conference Proceedings and Paper Presentations** (cont.)

Ritz, Paul and Schroeder, Herbert P., *Life Cycle Cost Analysis of a Storburn Propane Combustion Toilet*, Cold Regions Engineering: The Cold Regions Infrastructure—An International Imperative for the 21st Century, pp. 816-827. Presented at the ASCE 8th International Conference on Cold Regions, Fairbanks, Alaska, August 1996.

Mason, Michael R. and Schroeder, Herbert P., *Freeze-Thaw Durability of Concrete Cured Below 0°C using Antifreeze Admixtures*, Cold Regions Engineering: The Cold Regions Infrastructure—An International Imperative for the 21st Century, pp. 185-195. Presented at the ASCE 8th International Conference on Cold Regions, Fairbanks, Alaska, August 1996.

Schroeder, Herbert P., and Diekmann, James, *Interactive Automated Construction Sequencing*, pp. 19-23. Presented at the 1995 American Society for Engineering Management Conference, Washington, D.C., September 21-23, 1995.

Olofsson, J.A. and Schroeder, H. P., *Solving Sanitation Problems in the Alaskan Bush: Overcoming Socio-economic Factors*, Cold Regions Engineering, A Global Perspective, pp. 429-440. Presented at the 7th International Cold Regions Engineering Specialty Conference, Canadian Society for Civil Engineering, Edmonton, Alberta, March 7-9, 1994.

Wood, T. B. and Schroeder, H. P., *Reinforcing Steel/Concrete Bond Strength Development in Concrete Cured with Antifreeze Admixture at Temperatures Below 0°C*, pp. 67-86. Presented at the Cold Regions Engineering, A Global Perspective, 7th International Cold Regions Engineering Specialty Conference, Canadian Society for Civil Engineering, Edmonton, Alberta, March 7-9, 1994.

Junge, David C. and Schroeder, Herb, *An Investigation of the Effectiveness of Automotive Engine Preheaters in Reducing Carbon Monoxide Emissions in Cold Start Conditions*, Presented at the 86th annual meeting of the Air and Waste Management Association, Denver, Colorado, June 13-18, 1993.

Schroeder, Herbert P., *DYCAM 1.0: Dynamic Construction Activity Model, A Tool to Enhance Constructability*, Proceedings of the Second Annual Symposium of the Center for Space Construction, University of Colorado, October 17-19, 1990.

Morganthaler, George W., and Schroeder, Herb, *DYCAM 1.0: A Computer Aided Tool for the Engineering and On-Orbit Construction of Mars Spacecraft*, The Case for Mars IV: The International Exploration of Mars, Considerations for Sending Humans, American Astronautical Society, Proceedings of the Fourth Case for Mars Conference, June 4-8, 1990.

**Technical Reports, Papers, and Other Publications**

University of Alaska Transcript Study, University of Alaska and State of Alaska Department of Education and Early Development, February 2017.  
<http://www.ansep.net/Default.aspx?PageID=21404016&A=SearchResult&SearchID=4398042&ObjectID=21404016&ObjectType=1>

Schroeder, Herb Ilisaurri and Calhoun, Matt Ggax, Alaskans say yes to offshore oil and gas development, *Real Clear Energy*, June 28, 2016.  
[http://www.realclearenergy.org/articles/2016/06/28/alaska\\_natives\\_say\\_yes\\_to\\_alaskas\\_offshore\\_development\\_109181.html](http://www.realclearenergy.org/articles/2016/06/28/alaska_natives_say_yes_to_alaskas_offshore_development_109181.html)



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**Technical Reports, Papers, and Other Publications** (cont.)

Schroeder, Herb and Spangler, Beth, Empowering Native Alaskans to become stewards of their land, *Scientific American*, April 20, 2015.

<http://blogs.scientificamerican.com/voices/2015/04/20/empowering-native-alaskans-to-become-stewards-of-their-land/?print=true>

Furman, T., Gardella, J. A., Pagni, D. L., Puri, A., Schrader, C. C., Tucker, S. A. et al. (2006). *Mentoring for Science, Technology, Engineering and Mathematics Workforce Development and Lifelong Productivity: Success across the K through Grey Continuum*, A report to the National Science Foundation from present and past awardees of the Presidential Award for Excellence Science, Mathematics and Engineering Mentoring (PAESMEM), contributor.

[http://www.unc.edu/opt-ed/events/mentoring\\_workshops/documents/PAESMEMwhitepaper.pdf](http://www.unc.edu/opt-ed/events/mentoring_workshops/documents/PAESMEMwhitepaper.pdf)

Schroeder, Herbert P., *Construction Planning and Control Processes Requirement Definition, Current Process Evaluation and Recommended Practices*, A report to the U.S. Public Health Service Department of Environmental Health, July 1998. 20pp.

U.S. Congress, Office of Technology Assessment, *An Alaskan Challenge: Native Village Sanitation*. OTA-ENV-591. Washington DC: U.S. Government Printing Office, May 1994, 126pp. Olofsson, John A. and Schroeder, Herbert P., Reviewers/Contractors.

Thero, Owen, Schroeder, Herbert P. et al., *Problem Assessment and Recommendations for Mitigation within the Alyeska Pipeline Service Company*, Quality Technology Company, U.S. Bureau of Land Management. 1994. 225pp.

Thero, Owen, Schroeder, Herbert P. et al., *Review of the Management and Engineering Systems within the Alyeska Pipeline Service Company*, Quality Technology Company, U.S. Bureau of Land Management. 1993. 350pp.

Olofsson, John A., and Schroeder, H. P., 1993, *Sanitation Alternatives for Rural Alaska: Volume I, Background and Volume II, Economic Analysis*. Congressional Office of Technology Assessment, Oceans and Environment Program, Washington, D.C. J.A. Olofsson and Associates, Anchorage, Alaska. 122pp.

**Funded Research/Creative/Scholarly Activity**

**Federal Awards and Grants**

2019 to Present *Principle Investigator, NOAA Support of ANSEP, National Oceanic and Atmospheric Administration (NOAA), \$250,000, UAA Grant # S-26605.*

2017 to 2022 *Co-Principal Investigator and Executive Director, National Science Foundation Louis Stokes Alliances for Minority Participation (LSAMP) Alaska Alliance, \$3,000,000 (\$600,000 per year for five years), PI Samuel Gingerich, Co-PIs Matthew Calhoun, Brian Rasley, and Michele Yatchmeneff, NSF Award # 1712794, UAA Grant # G-11478, Award began July 15, 2017.*

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**Federal Awards and Grants** (cont.)

- 2017 to 2022 *Principle Investigator, BLM support for ANSEP, Bureau of Land Management, U.S. Department of the Interior, \$250,000 over 5 years, UAA Grant # G-10898.*
- 2017 to 2020 *Principal Investigator, Collaborative Research: A synthesis of EarthScope educational resources integrated into the Alaska Native Geoscience Learning Experience, National Science Foundation, \$58,092, NSF Award # 1736112, UAA Grant # G-11719, Award began September 1, 2017.*
- 2018 to Present *Project Director, USGS support for ANSEP, United States Geological Survey, \$250,000, Funding Opportunity # F16AS00379, UAA Grant # G-11181 .*
- 2017 to Present *Principal Investigator, Broadening Participation: An Alaska Native Science & Engineering Program Dissemination Conference, National Science Foundation Division of Engineering Education and Centers, \$200,000, NSF Award # 1737772, UAA Grant # G-11737. Award began September 19, 2017.*
- 2017 to Present *Bureau of Safety and Environmental Enforcement (BSEE), ANSEP Programmatic Support, \$250,000, UAA Grant # G-10939.*
- 2016 to Present *Principle Investigator, USFWS support for ANSEP, U.S. Fish and Wildlife Service, U.S. Department of the Interior, \$382,985, UAA Grant # G-11066.*
- 2015 to Present *Principle Investigator, Supporting the ANSEP, National Park Service, \$105,000, UAA Grant # G-9573.*
- 2014 to Present *Principle Investigator, Alaska Native Science & Engineering Program (ANSEP) Support, National Oceanic and Atmospheric Administration (NOAA), \$250,000, UAA Grant # G-9607.*
- 2012 to 2018 *Project Director, USGS support for ANSEP, United States Geological Survey, \$212,500, UAA Grant # G-8203.*
- 2012 to 2017 *Principal Investigator, National Science Foundation (NSF) Louis Stokes Alliances for Minority Participation (LSAMP) Alaska Alliance Senior Level, \$1,250,000, NSF Award # 1202568, UAA Grant # G-8331.*
- 2014 to 2016 *Principle Investigator, Supporting the ANSEP, National Park Service, \$43,000, UAA Grant # G-7720.*
- 2010 to 2016 *Principle Investigator, Alaska Native Science & Engineering Program (ANSEP), Alaska, Bureau of Land Management (BLM), U.S. Department of the Interior, Funding Opportunity # L10AS00343, \$70,400, UAA Grant # G-6717.*

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***Federal Awards and Grants (cont.)***

- 2008 to 2015 *Principle Investigator, Alaska Native Science & Engineering Program (ANSEP), United States Forest Service (USFS), \$50,000 annually, Challenge Cost Share Agreement # 10CS-11100100-020.*
- 2008 to 2014 *Principle Investigator, Alaska Native Science & Engineering Program (ANSEP) Summer Bridge, National Oceanic and Atmospheric Administration (NOAA), \$250,947, UAA Grant # G-5263.*
- 2008 to 2013 *Principal Investigator, Partnerships for Innovation (PFI) Program, Building on Success: Indigenous Alliance Expansion, University of Alaska Anchorage, \$720,000, NSF Award # 0836986.*
- 2006 to 2012 *Principal Investigator, National Science Foundation (NSF) Louis Stokes Alliances for Minority Participation (LSAMP) Pacific Alliance, with Co-PI, Elaine Maimon, \$1,776,161, NSF Award # 0602742.*
- 2009 to 2011 *Project Director, Continue Alaska Science & Engineering Program for Alaska Students, Fund for the Improvement of Postsecondary Education (FIPSE) Programs, Congressionally-Direct Projects for Access, Retention, and Completion, \$999,999, Grant # P116Z090174.*
- 2006 to 2011 *Principle Investigator, Alaska Native Science & Engineering Program ANSEP Facility: Longhouse, U.S. Department of Commerce, Economic Development Administration, \$1,400,000, Award # 07-01-05796.*
- 2008 to 2010 *Project Director, Alaska Native Science & Engineering Program and STEM, University of Alaska Anchorage, Fund for the Improvement of Postsecondary Education (FIPSE) Programs, Congressionally-Direct Projects for Access, Retention, and Completion, \$957,967, Grant # P116Z080205.*
- 2003 to 2006 *Principal Investigator, TALPA II, Partnerships for Innovation (PFI) Program, with Co-PI, Robert Lang, \$600,000, NSF Award # 0332690.*
- 2001 to 2006 *Principal Investigator, National Science Foundation Louis Stokes Alliances for Minority Participation (LSAMP) Pacific Alliance, \$2,078,752, Award # 0114747.*
- 2001 to 2005 *Principal Investigator, TALPA, Partnerships for Innovation (PFI) Program, with Co-PI, E. Lee Gorsuch, \$599,832, Award # 0125272.*
- 1992 to 1994 *Principal Investigator, National Science Foundation, Division of Undergraduate Education, Engineering Design Graphics Modernization and Collaborative Learning, with Co-PIs, Jerry Wekezer, T. Bart Quimby, \$97,149, Award # 9251538. Intergraph Corporation provided a \$150,000 matching grant.*

***Federal Interagency Agreements***

- 2012 to 2015 *ANSEP Biological Sciences Executive in Residence, USGS, in-kind, executive salary and benefits.*

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***State Grants***

2019 to Present	<i>2021 Bering Strait School District (BSSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-12444.</i>
2019 to Present	<i>2019 Dillingham City School District Middle School Academy, Anchorage, Alaska, \$36,000, UAA Grant # G-12618.</i>
2019 to Present	<i>2019 Kashunamiut School District (KSD) Middle School Academy, Anchorage, Alaska, \$36,000, UAA Grant # G-12490.</i>
2019 to Present	<i>2019 Kenai Peninsula Borough School District (KPBSD) Middle School Academy, Anchorage Alaska, \$69,000 UAA Grant # G-12441.</i>
2019 to Present	<i>2019 Lower Kuskokwim Borough School District (LKSD) Middle School Academy, Anchorage, Alaska, \$126,000, UAA Grant # G-12532.</i>
2019 to Present	<i>2019 Lower Yukon Borough School District (LYSD) Middle School Academy, Anchorage, Alaska, \$21,000, UAA Grant # G-12497.</i>
2019 to Present	<i>2019 Mat-Su Borough School District (MSBSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-12491.</i>
2019 to Present	<i>2019 North Slope Borough School District (NSBSD) Middle School Academy, Anchorage Alaska, \$160,000, UAA Grant # G-12598.</i>
2019 to Present	<i>2019 Northwest Arctic Borough School District (NWABSD) STEM Ready Academy, Anchorage Alaska, \$42,000, UAA Grant # G-12730.</i>
2019 to Present	<i>2019 Northwest Arctic Borough School District (NWABSD) Middle School Academy, Anchorage Alaska, \$160,000, UAA Grant # G-12692.</i>
2019 to Present	<i>2019 Southwest Region School District Middle School Academy, Anchorage, Alaska, \$9,000, UAA Grant # G-12640.</i>
2019 to Present	<i>2019 Yakutat School District Middle School Academy, Anchorage, Alaska, \$18,000, UAA Grant # G-126667.</i>
2018 to Present	<i>2018 Anchorage School District (ASD) Middle School Academy, Anchorage Alaska, \$160,000 UAA Grant # G-11832.</i>
2018 to Present	<i>2018 Bering Strait School District (BSSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-11946.</i>
2018 to Present	<i>2018 Kenai Peninsula Borough School District (KPBSD) Middle School Academy, Anchorage Alaska, \$35,200 UAA Grant # G-11947.</i>
2018 to Present	<i>2018 Lower Kuskokwim Borough School District (LKSD) Middle School Academy, Anchorage, Alaska, \$126,000, UAA Grant # G-11903.</i>

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**State Grants** (cont.)

2018 to Present	<i>2018 Lower Yukon Borough School District (LYSD) Middle School Academy, Anchorage, Alaska, \$69,000, UAA Grant # G-11826.</i>
2018 to Present	<i>2018 Mat-Su Borough School District (MSBSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-11856.</i>
2018 to Present	<i>2018 Northwest Arctic Borough School District (NWABSD) STEM Ready Academy, Anchorage Alaska, \$52,000, UAA Grant # G-12100.</i>
2018 to Present	<i>2018 Northwest Arctic Borough School District (NWABSD) Middle School Academy, Anchorage Alaska, \$160,000, UAA Grant # G-12008.</i>
2017 to Present	<i>2017 Northwest Arctic Borough School District (NWABSD) STEM Ready Academy, Anchorage Alaska, \$52,000, UAA Grant # G-11482.</i>
2017 to Present	<i>2017 Northwest Arctic Borough School District (NWABSD) Middle School Academy, Anchorage Alaska, \$160,000, UAA Grant # G-11768.</i>
2015 to Present	<i>North Slope Borough MOU, North Slope Borough, \$21,500, UAA Grant # G-10142.</i>
2014 to Present	<i>Alaska Native Science &amp; Engineering Program Middle School Component, Alaska Department of Early Education &amp; Development (DEED), State of Alaska, \$1,000,000 capital project grant, UAA Grant # G-9649.</i>
2017 to 2018	<i>2017 Anchorage School District (ASD) Middle School Academy, Anchorage Alaska, \$320,000 UAA Grant # G-11236.</i>
2017 to 2018	<i>2017 Kenai Peninsula Borough School District (KPBSD) Middle School Academy, Anchorage Alaska, \$33,000 UAA Grant # G-11265.</i>
2017 to 2018	<i>2017 Lower Kuskokwim Borough School District (LKSD) Middle School Academy, Anchorage, Alaska, \$126,000, UAA Grant # G-11324.</i>
2017 to 2018	<i>2017 Mat-Su Borough School District (MSBSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-11237.</i>
2016 to 2018	<i>2016 Bering Strait School District (BSSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-11145.</i>
2016 to 2018	<i>2016 Northwest Arctic Borough School District (NWABSD) Middle School Academy, Anchorage Alaska, \$132,000, UAA Grant # G-11069.</i>
2016 to 2017	<i>2016 Anchorage School District (ASD) Middle School Academy, Anchorage Alaska, \$160,000, UAA Grant # G-10816.</i>

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**State Grants** (cont.)

- 2016            *2016 KPBSD Middle School Academy, Kenai Peninsula Borough School District, \$54,000, UAA Grant # G-10567.*
- 2016            *2016 LKSD Middle School Academy, Lower Kuskokwim Borough School District, \$108,000, UAA Grant # G-10568.*
- 2016            *2016 Mat-Su Middle School Academy, Mat-Su Borough School District, \$160,000, UAA Grant # G-10573.*
- 2016            *2016 NWABSD Middle School Academy, Northwest Arctic Borough School District, \$90,000, UAA Grant # 10575.*
- 2016            *2016 Chevak Middle School Academy, Kashunamiut School District, \$3,600, UAA Grant # 10576.*
- 2016            *2016 LYSD Middle School Academy, Lower Yukon School District, \$21,600, UAA Grant # 10578.*
- 2015 to 2016    *Program Director, Alaska Native Science & Engineering Program Pre-college Component, Alaska Department of Early Education & Development (DEED), State of Alaska, \$1,385,200, UAA Grants # G-10194 and G-10669, FY16.*
- 2014 to 2015    *FY14 LKSD Middle School Academy, Lower Kuskokwim Borough School District, \$160,000, UAA Grant # G-9386.*
- 2014 to 2015    *FY14 Mat-Su Middle School Academy, Mat-Su Borough School District, \$145,000, UAA Grant # G-9319.*
- 2014 to 2015    *Program Director, Alaska Native Science & Engineering Program Middle School Component, Alaska Department of Early Education & Development (DEED), State of Alaska, \$2,000,000 in FY15.*
- 2010 to 2015    *Program Director, Alaska Native Science & Engineering Program Pre-college Component, Alaska Department of Early Education & Development (DEED), State of Alaska, \$960,000 annually through FY15 .*
- 2012 to 2013    *ANSEP Biological Sciences, Alaska Department of Fish and Game, State of Alaska, \$30,000 annually.*

**Foundation and other Private Grants and Donations**

- 2019            *Alyeska Pipeline Service Company, ANSEP programmatic support, \$175,000.*
- 2019            *Annual donations individuals, ANSEP programmatic support, \$59,400.*
- 2019            *AT&T, ANSEP programmatic support, \$17,000.*
- 2019            *BP Exploration, Inc., ANSEP programmatic support, \$100,000.*

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***Foundation and other Private Grants and Donations (cont.)***

2019	ConocoPhillips, <i>ANSEP programmatic support</i> , \$84,250.
2019	Donlin Gold, <i>ANSEP programmatic support</i> , \$10,000.
2019	Huna Totem Corporation, <i>ANSEP programmatic support</i> , \$39,000.
2019	Oil Search, LLC, <i>ANSEP programmatic support</i> , \$20,000.
2019	Peak Oilfield Services Co., LLC, <i>ANSEP programmatic support</i> , \$75,000.
2019	Princeton Area Community Foundation, <i>ANSEP programmatic support</i> , \$20,000.
2019	Saltchuk Resources, Inc., <i>ANSEP programmatic support</i> , \$5,000.
2019	Sealaska Corp, <i>ANSEP programmatic support</i> , \$71,000.
2019	Stantec Consulting Services, Inc., <i>ANSEP programmatic support</i> , \$5,000.
2019	Taiga Mining Company, Inc., <i>ANSEP programmatic support</i> , \$1,000.
2019 to Present	National Fish and Wildlife Foundation, NFWF 2019 Alaska Fish and Wildlife, \$150,000, UAA Grant # S-26228.
2019 to Present	National Fish and Wildlife Foundation, ANSEP and EEZ, \$20,000, UAA Grant # G-12626.
2019 to Present	Association of Village Council Presidents (AVCP), <i>ANSEP/AVCP Student Engagement</i> , \$3,00,000, UAA Grant # G-12607.
2019 to Present	<i>2019 Bristol Bay Middle School Academy</i> , Alaska Community Foundation, \$50,000, UAA Grant # G-12531.
2019 to Present	Orutsararmiut Native Council, <i>ONC Support of ANSEP – Year 2</i> , \$12,000, UAA Grant # G-11824.
2018 to Present	Arctic Research Consortium of the U.S., <i>ARCUS Support of ANSEP</i> , \$11,500, UAA Grant # G-12056.
2018 to Present	ECMC, <i>ECMC Support for ANSEP</i> , \$600,000, UAA Grant # G-11893.
2018 to Present	Mystic Aquarium, <i>Mystic Aquarium Support of ANSEP</i> , \$5,000. UAA Grant # G-12067.
2018 to Present	Orutsararmiut Native Council, <i>ONC Support of ANSEP</i> , \$17,000, UAA Grant # G-12321.

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***Foundation and other Private Grants and Donations*** (cont.)

2018 to Present	2018 <i>Bristol Bay Middle School Academy</i> , Alaska Community Foundation, \$50,000, UAA Grant # G-11899.
2017 to Present	Alaska Airlines Travel Grant, <i>ANSEP Middle School</i> , \$1,000,000, (in-kind air travel) announced October 2017.
2017 to Present	ANTHC Support of ANSEP, Alaska Tribal Health Consortium, \$29,000, UAA Grant # G-11196.
2016 to Present	Association of Village Council Presidents (AVCP), <i>ANSEP/AVCP Career Prep</i> , \$2,192,800, UAA Grant # G-10718.
2016 to Present	Defenders Support of ANSEP, Defenders of Wildlife, \$104,000, UAA Grant # G-10708.
2016 to Present	National Fish and Wildlife Foundation, <i>ANSEP/USFS</i> , \$348,000, UAA Grant # G-10507.
2014 to Present	Oak Foundation, <i>Science Development for ANSEP</i> , \$550,000, Grant # G-10167
2013 to Present	Rasmuson Foundation Tier 2 Grant, <i>ANSEP Institutionalization and Sustainability</i> , \$5,000,000 (\$1,000,000 per year for five years), UAA Grant # G-8953.
2012 to Present	National Fish and Wildlife Foundation, <i>ANSEP Support-USFWS</i> , \$717,000, UAA Grant # G-8041.
2012 to Present	National Action Council for Minorities in Engineering (NACME), <i>ANSEP Scholarships</i> , \$210,000, UAA Grant # G-8558.
2008 to Present	Alfred P. Sloan Indigenous Graduate Partnership (SIGP), \$30,000 <i>graduate fellowships</i> paid directly to each eligible ANSEP graduate student; <i>Extending Success to Graduate School</i> , \$144,000, UAA Grant # G-7229; <i>American Indian Graduate Program</i> , \$240,000, UAA Grant # G-5167; <i>ANSEP Graduate Component Annual Support</i> , \$26,880, UAA Grant # G-9538; <i>ANSEP Sloan Foundation Support 17-20</i> , \$42,000, UAA Grant # G-11443.
2018	<i>Bristol Bay Native Association</i> , BBNA Support of ANSEP, \$12,000, UAA Grant # 11824.
2018	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$175,000.
2018	Annual donations from individuals, <i>ANSEP programmatic support</i> , \$31,000.
2018	Armstrong Energy, LLC, <i>ANSEP programmatic support</i> , \$3,500.
2018	BBNC Education Foundation, <i>ANSEP programmatic support</i> , \$4,000.



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***Foundation and other Private Grants and Donations (cont.)***

2018	BP Exploration, Inc., <i>ANSEP programmatic support</i> , \$103,200.
2018	Calista Corporation, <i>ANSEP programmatic support</i> , \$10,000.
2018	ConocoPhillips, <i>ANSEP programmatic support</i> , \$43,000.
2018	ExxonMobil Corporation, <i>ANSEP programmatic support</i> , \$375,000.
2018	NANA WorleyParsons, LLC, <i>ANSEP programmatic support</i> , \$1,500.
2018	Peak Oilfield Services Co., LLC, <i>ANSEP programmatic support</i> , \$75,000.
2018	Rasmuson Foundation, <i>ANSEP programmatic support</i> , \$15,000.
2015 to 2017	Alaska Airlines Travel Grant, <i>ANSEP Middle School</i> , \$1,005,000 (\$335,000 in-kind air travel per year for three years).
2010 to 2017	Harris Foundation, <i>ExxonMobil Bernard Harris Summer Science Camp (EMBHSSC)</i> funds a middle school camp where students do science labs including biology labs, \$50,000 - \$80,000 annually. Program ended August 2017.
2017	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$220,000
2017	Annual donations from individuals, <i>ANSEP programmatic support</i> , \$42,096
2017	AT&T Services, Inc., <i>ANSEP programmatic support</i> , \$16,000
2017	BP Exploration, Inc., <i>ANSEP Summer Bridge</i> , \$72,000
2017	ConocoPhillips, <i>ANSEP programmatic support</i> , \$25,000
2017	Donlin Gold, <i>ANSEP programmatic support</i> , \$10,000
2017	Doyon, Limited, <i>ANSEP programmatic support</i> , \$10,000
2017	ExxonMobil Corporation, <i>ANSEP programmatic support</i> , \$470,000
2017	Stantec Consulting Services, Inc., <i>ANSEP programmatic support</i> , \$5,000
2017	Udelhoven Oilfield System Services, Inc., <i>ANSEP programmatic support</i> , \$50,000
2015 to 2016	National Fish and Wildlife Foundation, Bridging the Gap, <i>ANSEP Support</i> , \$45,000, UAA Grant # G-10407.

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***Foundation and other Private Grants and Donations (cont.)***

2011 to 2016	National Fish and Wildlife Foundation, Conservation Careers for Indigenous Americans, <i>ANSEP Support</i> , \$43,000, UAA Grant # G-7720.
2016	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$305,000
2016	Annual donations from individuals, <i>ANSEP programmatic support</i> , \$56,125
2016	AT&T Services, Inc., <i>ANSEP programmatic support</i> , \$53,000
2016	BP Exploration, Inc., <i>ANSEP Summer Bridge</i> , \$60,000
2016	Calista Corporation, <i>ANSEP programmatic support</i> , \$4,140
2016	Chugach Corporation, <i>ANSEP programmatic support</i> , \$26,000
2016	ConocoPhillips, <i>ANSEP programmatic support</i> , \$25,000
2016	Cook Inlet Tribal Council, Inc., <i>ANSEP programmatic support</i> , \$25,000
2016	ExxonMobil, <i>ANSEP programmatic support</i> , \$415,000
2016	Saltchuk Resources, Inc., <i>ANSEP programmatic support</i> , \$20,000
2016	Shell Exploration & Production Company (Alaska), <i>ANSEP Summer Bridge</i> , \$150,000
2016	Udelhoven Oilfield System Services, Inc., <i>ANSEP programmatic support</i> , \$100,000
2015	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$200,000
2015	Annual donations from individuals, <i>ANSEP programmatic support</i> , \$80,203
2015	Arctic Slope Regional Corporation, <i>ANSEP programmatic support</i> , \$50,000
2015	BP Exploration, Inc., <i>ANSEP Summer Bridge</i> , \$60,000
2015	Calista Corporation, <i>ANSEP programmatic support</i> , \$10,000
2015	Chevron North America Exploration, <i>ANSEP programmatic support</i> , \$5,000
2015	ConocoPhillips, <i>ANSEP programmatic support</i> , \$60,000
2015	Donlin Gold, <i>ANSEP programmatic support</i> , \$11,000
2015	ExxonMobil Corporation, <i>ANSEP programmatic support</i> , \$480,250

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***Foundation and other Private Grants and Donations (cont.)***

2015	Hawk Consultants, Inc., <i>ANSEP programmatic support</i> , \$2,500
2015	Merrick & Company, <i>ANSEP programmatic support</i> , \$3,000
2015	NANA, <i>ANSEP programmatic support</i> , \$3,800
2015	REPSOL, <i>ANSEP programmatic support</i> , \$4,000
2015	Shell Exploration & Production Company (Alaska), <i>ANSEP Summer Bridge</i> , \$155,000
2015	Udelhoven Oilfield System Services, Inc., <i>ANSEP programmatic support</i> , \$200,000
2013 to 2014	Margaret A. Cargill Foundation, <i>ANSEP Middle School Academy</i> , \$160,000, UAA Grant # G-8571
2012 to 2014	Rasmuson Foundation, <i>ANSEP programmatic support</i> , \$431,640, UAA Grant #G-8040
2012 to 2014	Central Bering Sea Fisherman's Association, <i>ANSEP programmatic support</i> , \$50,000 annually.
2012 to 2014	Hearst Foundation, <i>ANSEP Acceleration Academy</i> , \$75,000, UAA Grant # G-8009
2011 to 2014	Oak Foundation, <i>Training the next generation of Alaska Native Scientists: ANSEP Building Capacity in GIS</i> , \$400,000, UAA Grant # G-7299
2009 to 2014	Pebble Limited Partnership, <i>ANSEP programmatic support</i> , \$350,000 (\$75,000 per year for five years).
2014	Alaska Airlines Foundation, <i>ANSEP programmatic support</i> , \$15,000
2014	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$230,000
2014	Annual donations from individuals, <i>ANSEP programmatic support</i> , \$54,451
2014	AT&T Foundation, <i>ANSEP programmatic support</i> , \$20,000
2014	BP Exploration, Inc., <i>ANSEP Summer Bridge</i> , \$120,000
2014	Chevron North America Exploration, <i>ANSEP programmatic support</i> , \$5,000
2014	ConocoPhillips, <i>ANSEP programmatic support</i> , \$37,500
2014	Donlin Gold, <i>ANSEP programmatic support</i> , \$25,000

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***Foundation and other Private Grants and Donations (cont.)***

2014	Doyon Limited, <i>ANSEP programmatic support</i> , \$5,000
2014	ExxonMobil, <i>ANSEP programmatic support</i> , \$315,000
2014	GCI Communications, <i>ANSEP programmatic support</i> , \$1,000
2014	Hawk Consultants, Inc., <i>ANSEP programmatic support</i> , \$2,500
2014	NANA WorleyParsons, <i>ANSEP programmatic support</i> , \$2,900
2014	Rasmuson Foundation, <i>ANSEP Pre-College</i> , \$243,000
2014	Shell Exploration & Production Company (Alaska), <i>ANSEP Summer Bridge</i> , \$98,000
2014	Siemens Industry, <i>ANSEP programmatic support</i> , \$25,000
2014	Udelhoven Oilfield System Services, Inc., <i>ANSEP programmatic support</i> , \$200,000
2013	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$230,000
2013	Alyeska Pipeline Service Company Employee Matches, <i>ANSEP programmatic support</i> , \$9,000
2013	Annual donations from individuals, <i>ANSEP programmatic support</i> , \$15,743
2013	Anonymous Donor, <i>ANSEP programmatic support</i> , \$10,000
2013	BP Foundation Employee Matches, <i>ANSEP programmatic support</i> , \$6,600
2013	Chugach Alaska Corporation, <i>ANSEP programmatic support</i> , \$50,000
2013	Donlin Gold, <i>ANSEP programmatic support</i> , \$40,000
2013	ExxonMobil Corporation, <i>ANSEP programmatic support</i> , \$135,000
2013	GCI Communications Corporation, <i>ANSEP programmatic support</i> , \$1,000
2013	Hawk Consultants, Inc., <i>ANSEP programmatic support</i> , \$5,000
2013	Kuskokwim Native Association, <i>ANSEP programmatic support</i> , \$5,000
2013	National Fish and Wildlife Foundation, <i>ANSEP programmatic support</i> , \$100,000
2013	Saltwater, Inc., <i>ANSEP programmatic support</i> , \$20,000

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***Foundation and other Private Grants and Donations (cont.)***

2013	Shell Exploration & Production Company (Alaska), <i>ANSEP Summer Bridge</i> , \$110,000
2013	Taku Engineering, LLC, <i>ANSEP programmatic support</i> , \$1,000
2013	Udelhoven Oilfield System Services, Inc., <i>ANSEP programmatic support</i> , \$200,000
2013	University of Michigan, <i>ANSEP programmatic support</i> , \$2,500
2013	Verizon Foundation, <i>ANSEP Middle School Academy</i> , \$10,000
2012	Alyeska Pipeline Service Company, \$35,000, and ExxonMobil Corporation, \$35,000, <i>2012 ANSEP Banquet</i>
2012	ANSEP Alumni, <i>ANSEP scholarship support</i> , \$22,262
2012	BP Exploration, Inc., <i>ANSEP Summer Bridge</i> , \$88,000
2012	BP Fabric of America Fund, <i>ANSEP programmatic support</i> , \$750
2012	ConocoPhillips Alaska, Inc., <i>ANSEP Summer Bridge</i> , \$44,500
2012	ExxonMobil Corporation, <i>Support for 2012 Washington DC Congressional reception</i> , \$100,000
2012	ExxonMobil Corporation, <i>ANSEP programmatic support</i> , \$134,500
2012	Siemens Industry, <i>ANSEP programmatic support</i> , \$30,000
2012	Udelhoven Oilfield Systems, <i>ANSEP programmatic support</i> , \$300,000
2012	Wells Fargo, <i>ANSEP Pre-College</i> , \$25,000
2005 to 2011	Wells Fargo, <i>ANSEP Pre-College</i> , annual award of \$50,000
2007 to 2011	Rasmuson Fisheries Excellence Grant, <i>ANSEP subawardee</i> \$250,000 (\$50,000 per year for five years)
2011	ExxonMobil Corporation and Alyeska Pipeline Service Company, <i>2011 ANSEP Banquet</i> , \$75,000
2011	ExxonMobil Corporation, <i>ANSEP programmatic support</i> , \$300,000
2011	ConocoPhillips, <i>ANSEP Summer Bridge</i> , \$23,000
2011	BP Exploration, <i>ANSEP Summer Bridge</i> , \$97,000

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***Foundation and other Private Grants and Donations (cont.)***

2010	ExxonMobil Corporation, <i>ANSEP programmatic support</i> , \$100,000
2010	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$300,000
2010	Microsoft, <i>ANSEP programmatic support</i> , \$1,000,000 in software
2009	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$300,000
2009	ConocoPhillips, <i>ANSEP Summer Bridge</i> , \$46,000
2008	<i>Herbert P. Schroeder Endowed Chair of the Alaska Native Science &amp; Engineering Program (ANSEP)</i> , \$4.4 million <ul style="list-style-type: none"><li>• Rasmuson Foundation, \$2 million</li><li>• Alyeska Pipeline Service Company, \$500,000</li><li>• ASRC Energy Services, \$500,000</li><li>• BP, \$500,000</li><li>• Chevron, \$250,000</li><li>• Shell Oil, \$250,000</li><li>• Udelhoven Oilfield System Services, \$200,000</li><li>• Cook Inlet Region Incorporated (CIRI), \$100,000</li><li>• ConocoPhillips, \$100,000</li></ul>
2008	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$200,000
2007	Alfred P. Sloan Foundation, <i>Alaska Native Science &amp; Engineering Program (ANSEP) Dissemination Conference</i> , \$40,000
2007	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$200,000
2007	BP Exploration, <i>ANSEP Summer Bridge</i> , \$70,000
2007	ConocoPhillips, <i>ANSEP Summer Bridge</i> , \$23,000
2007	Ford Foundation, <i>Alaska Native Science &amp; Engineering Program (ANSEP) Dissemination Conference</i> , \$100,000, Grant # 1075-0622
2007	The Nathan Cummings Foundation, <i>Alaska Native Science &amp; Engineering Program (ANSEP)</i> , with Elaine Maimon, \$25,000, Grant # 06-01262
2007	TeckCominco, <i>ANSEP programmatic support</i> , \$150,000
2006	Alyeska Pipeline Service Company, <i>ANSEP University Retention</i> , \$225,000
2006	Siemens Building Technologies, <i>Pacific Alliance</i> , \$1,000,000
2006	BP Exploration, <i>ANSEP Summer Bridge (ALVA)</i> , \$65,000

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***Foundation and other Private Grants and Donations*** (cont.)

2006	Microsoft Corporation, <i>ANSEP programmatic support</i> , \$50,000 cash and \$209,400 in Microsoft software and Microsoft Curriculum
2005	Rasmuson Foundation, <i>ANSEP Summer Bridge/Computer Assembly</i> , \$25,000
2005	BP Exploration, <i>ANSEP Summer Bridge</i> , \$80,000 cash, \$50,000 in-kind
2005	ConocoPhillips, <i>ANSEP Summer Bridge</i> , \$17,000
2005	NANA Development Inc., NANA/DOWL Engineering, and NANA Colt Engineering <i>ANSEP Summer Bridge</i> , \$46,000
2005	Siemens Building Technologies, <i>Support for Pacific Alliance</i> , \$1,750,000
2005	Alyeska Pipeline Service Company, <i>ANSEP University Retention</i> , \$215,000
2003 to 2004	Alyeska Pipeline Service Company, <i>ANSEP University Retention</i> , \$195,000
2004	First Alaskans Institute, <i>ANSEP Pre-College</i> , \$133,000
2004	BP Exploration, <i>ANSEP Summer Bridge</i> , \$80,000 and \$50,000 in-kind.
2004	NANA Development Inc., NANA/DOWL Engineering, and NANA Colt Engineering <i>ANSEP Summer Bridge</i> , \$46,000 cash and \$20,000 in-kind.
2004	Bristol Environmental and Engineering Inc., <i>ANSEP Summer Bridge</i> , \$8,500
2004	SKW Eskimos, Inc., <i>ANSEP Summer Bridge</i> , \$8,500
2004	Alyeska Pipeline Service Company, <i>ANSEP Summer Bridge</i> , \$8,500
2003 to 2004	<i>The ANSEP Building</i> project involved construction of a 12,000 square foot facility to house the activities of ANSEP and the Pacific Alliance. The building also serves as a home for the developing Indigenous Peoples Institute for Engineering and Science Education. The building includes rapid reconfigurable laboratory instruction space for engineering. Donations were received from the following organizations: <ul style="list-style-type: none"><li>• Rasmuson Foundation, \$2,000,000</li><li>• Denali Commission, \$250,000</li><li>• University of Alaska, \$750,000 (BP/Conoco money)</li><li>• U.S. Department of Education Congressional FY05 earmark, \$1,000,000</li><li>• Alyeska Pipeline Service Company, \$300,000</li><li>• JL Properties, \$1,600,000</li></ul>
2002 to 2003	Alyeska Pipeline Service Company, <i>ANSEP University Retention</i> , \$192,000

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***Foundation and other Private Grants and Donations*** (cont.)

2003	BP Exploration, <i>Alliances of Learning and Vision for underrepresented Americans (ALVA) Summer Bridge</i> , \$65,000
2003	NANA, <i>Alliances of Learning and Vision for underrepresented Americans (ALVA) Summer Bridge</i> , \$45,000
2001 to 2002	Alyeska Pipeline Service Company, <i>ANSEP University Retention</i> , \$185,000
2002	BP Exploration (Alaska), Inc., <i>Alliances of Learning and Vision for underrepresented Americans (ALVA) Summer Bridge</i> , \$80,000 cash and \$50,000 in kind.
2002	NANA Development, Inc., NANA/DOWL Engineering, and NANA Colt Engineering, <i>Alliances of Learning and Vision for underrepresented Americans (ALVA) Summer Bridge</i> , \$45,000 cash and \$20,000 in kind.
2000 to 2001	Alyeska Pipeline Service Company, <i>ANSEP University Retention</i> , \$95,000
2001	BP Exploration (Alaska), Inc., <i>Alliances of Learning and Vision for underrepresented Americans (ALVA) Summer Bridge</i> , \$80,000 cash and \$50,000 in kind.
2001	NANA Development Inc., <i>NANA Alliances of Learning and Vision for underrepresented Americans (ALVA) Summer Bridge</i> , \$45,000 cash and \$20,000 in kind.
2000	BP Exploration (Alaska), Inc., <i>Alliances of Learning and Vision for underrepresented Americans (ALVA) Summer Bridge</i> , \$80,000 cash and \$65,000 in kind.
1999 to 2000	Alyeska Pipeline Service Company, <i>ANSEP University Retention</i> , \$95,000
1999	Alaska Federation of Natives (AFN), <i>ANSEP program support</i> , \$40,000
1999	BP Exploration (Alaska), Inc., <i>Alliances of Learning and Vision for underrepresented Americans (ALVA) Summer Bridge</i> , \$56,000 cash and \$50,000 in-kind.
1998 to 1999	Alyeska Pipeline Service Company, <i>ANSEP University Retention</i> , \$35,000
1998	BP Exploration (Alaska), Inc., <i>Alliances of Learning and Vision for underrepresented Americans (ALVA)</i> to provide 8-week Summer Bridge program where incoming Alaska Native freshmen lived on campus, had math instruction, participated in group activities, and worked paid internships with industry partners, \$62,500 cash and \$62,500 in kind.
1997 to 1998	Alyeska Pipeline Service Company, <i>ANSEP University Retention</i> , \$39,000



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***Foundation and other Private Grants and Donations*** (cont.)

- |              |  |
|--------------|--|
| 1996 to 1997 | Anchorage Sand & Gravel, U.S. Public Health Service, and DOW Chemical Company, <i>Cold Weather Concrete Field Durability Testing</i> , \$4,500 in materials.   |
| 1995 to 1997 | Alyeska Pipeline Service Company, <i>ANSEP University Retention</i> to recruit and retain Alaska Native undergraduates pursuing bachelor of science degrees in engineering at UAA and provide scholarships, \$97,000 |
| 1995 to 1996 | Anchorage Sand & Gravel, U.S. Public Health Service, and DOW Chemical Company, <i>Freeze- Thaw Durability of Concrete Cured Below 0°C Using Antifreeze Admixtures</i> , \$3,500 in materials.                        |
| 1995 to 1996 | Storburn, Inc. and Enstar Natural Gas Company. <i>Life Cycle Cost Analysis of a Storburn Combustion Toilet</i> , \$3,500 in equipment.   |

**ANSEP Evaluation and Research Projects**

***External Review – Urban Institute***

*Research Brief on Key Findings*

Hamutal Bernstein, Carlos Martín, Lauren Eyster, Theresa Anderson, Stephanie Owen, and Ananda Martin-Caughey (2015). Building Alaska's Science and Engineering Pipeline Evaluation of the Alaska Native Science & Engineering Program, *Research Brief*, Urban Institute, January 2015. (ERIC ED559316)

[http://www.ansep.net/documents/ANSEP\\_Brief\\_07December\\_ReaderSpreads\\_v3.pdf](http://www.ansep.net/documents/ANSEP_Brief_07December_ReaderSpreads_v3.pdf)

<http://www.urban.org/sites/default/files/alfresco/publication-pdfs/2000073-Building-Alaska-Science-and-Engineering-Pipeline.pdf>

<http://files.eric.ed.gov/fulltext/ED559316.pdf>

***External Review – Urban Institute***

*Full Research Report*

Hamutal Bernstein, Carlos Martín, Lauren Eyster, Theresa Anderson, Stephanie Owen, and Ananda Martin-Caughey (2015). Evaluation of the Alaska Native Science & Engineering Program (ANSEP), *Research Report*, Urban Institute, January 2015. (ERIC ED559320)

<http://www.urban.org/research/publication/evaluation-alaska-native-science-and-engineering-program-ansep>

<http://files.eric.ed.gov/fulltext/ED559320.pdf>

***National Science Foundation Research*** (In Progress)

*ANSEP Alaska Native University Success Research Project I – UAA IRB Project 1033107*

Objective: To study and better understand the possible effects of Alaska Native Science and Engineering (ANSEP) precollege components on the academic success and social engagement of Alaska Native ANSEP University Success students (LSAMP) pursuing Bachelor of Science (BS) degrees in STEM fields at the University of Alaska Anchorage (UAA). Active 2017 – 2019.

*ANSEP Alaska Native University Success Research Project II – UAA IRB Project 1033107*

Objective: To measure the level to which ANSEP's current action plan meets LSAMP's priorities by using the theoretical frameworks of Indigenized communities and Belonging in a research project on the perceptions and opinions of Alaska Native university STEM majors. Active 2017 – 2019.

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***National Science Foundation Research*** (In Progress) (cont.)

*Alaska Native Science & Engineering Program Broadening Participation in Engineering Dissemination Conference Program Evaluation – UAA IRB Project 1102205*

Objective: To collect the opinions and perceptions of conference participants to assess the impact participation in the Dissemination Conference might have on conference participants' post-conference actions to initiate and replicate aspects of the ANSEP model in other areas of the country to develop an understanding of the best methods for promotion of and support for underrepresented groups in STEM education. Active 2017 – 2019.

***Dissertation Research on ANSEP***

Yatchmeneff, Michele (2015). A Qualitative Study of Motivation in Alaska Native Science & Engineering Program (ANSEP) Pre-college Students. Ph.D. dissertation, Purdue University/West Lafayette, United States – Indiana. No. AAI10062898.

Yatchmeneff, Michele (2015). *A Qualitative Study of Motivation in Alaska Native Science & Engineering Program (ANSEP) Pre-college Students*. In Proceedings of the 122<sup>nd</sup> American Society of Engineering Education Annual Conference & Exposition, Seattle, Washington, June 16, 2015. <http://www.asee.org/public/conferences/56/papers/13347/view>

Lazzell, L. (2007). An assessment of the impact of university retention program strategies on the retention and academic success of Alaska Native undergraduate engineering students. Ed.D. dissertation, Argosy University/Sarasota, United States – Florida. *Dissertations & Theses*. Publication No. AAT 3354477.

**Invited Lectures, Invited Expert Contributions, and Speaking Engagements**

I have been invited to make expert contributions and hundreds of presentations for industrial organizations, universities, professional societies, colleges, high schools and philanthropic groups. What follows are recent and selected engagements.

National Science Foundation Distinguished Lecture Series. Lecture title, Transforming Education: Improving Quality and Reducing Costs, Washington D.C., originally scheduled for February 14, 2019 and was rescheduled to August 7, 2019 due to the U.S. federal government shutdown.

National Science Foundation Louis Stokes Alliance for Minority Participation (LSAMP) Principal Investigators/Project Directors Meeting, Creating Successful Practices on STEM Broadening Participation, *STEM Mentoring – A Conversation with Exceptional Mentors*, panelist, Washington DC, February 20, 2019.

*24th Alaska Native Science & Engineering Celebration*, speaker, Anchorage, Alaska, January 18, 2019.

Alumni Awards 2018, University of Colorado Boulder, *George Norlin Award for Lifetime Achievement Recipient*, speaker. Boulder, Colorado, October 25, 2018.

*Top Seven Finalist 2018 Innovations in Government Presentations*, Ash Center for Democratic Governance and Innovation, John F. Kennedy School of Government, Harvard University, co-presenter with Michael Bourdukofsky, Cambridge, Massachusetts, September 27, 2018.

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**Invited Lectures, Invited Expert Contributions, and Speaking Engagements (cont.)**

*Technology & Building Sustainable Economic Security in the Arctic*, Breakout Session 1, Arctic Encounter Symposium, panelist, Seattle, Washington, April 19, 2018. <http://www.arcticencounter.com/>

*23<sup>rd</sup> Alaska Native Science & Engineering Celebration*, speaker, Anchorage, Alaska, January 19, 2018.

National Academies, Committee on Closing the Equity Gap: Securing our STEM Education and Workforce Readiness Infrastructure in the Nation's Minority-Serving Institutions, National Academies of Sciences, Engineering, and Medicine, panelist, Washington, D.C., July 17, 2017. *Panel 2: Innovative Programs and Strategies on MSI Campuses*, Committee Meeting 3, [https://sites.nationalacademies.org/cs/groups/pgasite/documents/webpage/pga\\_180572.pdf](https://sites.nationalacademies.org/cs/groups/pgasite/documents/webpage/pga_180572.pdf)

*Growing Our Own: Ensuring a Great Alaskan Teacher in Every Classroom*, Commonwealth North, co-panelist with Kathy Moffitt, Director, Special Projects, Anchorage School District, Anchorage, Alaska, June 13, 2017.

<http://www.commonwealthnorth.org/2017/06/05/june-13th-growing-our-own-ensuring-a-great-alaskan-teacher-in-every-classroom/>

*STEM Mentoring 2030: Emerging Strategies for Inclusive STEM Education*, 2017 STEM Mentors Alumni Event, for all current and past PAESMEM individual mentor alumni and mentoring programs, convened by American Association for the Advancement of Science (AAAS), 2004 PAESMEM mentor, Washington, D.C., April 5 to 7, 2017.

*22<sup>nd</sup> Alaska Native Science & Engineering Celebration*, speaker, Anchorage, Alaska, January 20, 2017.

*Alaska Federation of Natives Board Meeting*, speaker, Anchorage, Alaska, May 5, 2016.

*Matanuska Susitna Borough School District School Board Meeting*, invited speaker, Wasilla, Alaska, May 4, 2016.

NSF Day, *Lessons from the Field: NSF-funded researchers share best practices*, Lunch Panel Discussion, panelist, University of Alaska Anchorage, April 8, 2016.

*Alaska State Board of Education and Early Development Board Meeting*, Juneau, Alaska, March 21, 2016.

*Alaska Superintendent's Association Legislative Fly-In*, Juneau, Alaska, February 23, 2016.

*The 29<sup>th</sup> Alaska State Legislature House Education and Early Development Finance Subcommittee Hearing*, Alaska Native Science & Engineering Program (ANSEP), Juneau, Alaska, speaker via teleconference, February 9, 2016.

*21<sup>st</sup> Alaska Native Science & Engineering Celebration*, speaker, Anchorage, Alaska, January 29, 2016.

*The 29<sup>th</sup> Alaska State Legislature House and Senate Education Committees, Joint Hearing*, Alaska Native Science & Engineering Program (ANSEP), co-presenter, with Michael Bourdukofsky, P.E., ANSEP Chief Operations Officer, Juneau, Alaska, January 27, 2016.

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**Invited Lectures, Invited Expert Contributions, and Speaking Engagements (cont.)**

*National School Boards Association (NSBA 2015) Pacific Region Summer Meeting, Alaska Native Science and Engineering Program, invited speaker, Fairbanks, Alaska, June 26, 2015.*

*INCLUDES (Inclusion Across the Nation of Communities of Learners that have been Underrepresented for Diversity in Engineering and Science) Initiative Working Conference, co-sponsored by the National Science Foundation, the Center for Advancement of Informal Science Education, and the Association of Science of Technology Centers, invited STEM education leader, Washington D.C., June 3, 2015.*

*57<sup>th</sup> Annual Conference, Western Association of Graduate Schools, Transforming the K20 Pipeline for Science and Engineering, plenary presenter, Anchorage, Alaska, March 9, 2015.*

*20<sup>th</sup> Alaska Native Science & Engineering Celebration, Twenty Years of Educational Reform, speaker, Anchorage, Alaska, January 30, 2015.*

*Alaska Federation of Natives, Alaska Airlines ANSEP Middle School Travel Award Announcement, Anchorage, Alaska, October 23, 2014.*

*National Science Foundation Louis Stokes Alliance for Minority Participation (LSAMP) PIPD Meeting, Leveraging Federal Funding: Three Examples from LSAMP, panelist, Washington DC, October 3, 2014.*

*Native Hawaiian Science & Engineering Mentorship Program Graduation Poi Supper, University of Hawai'i at Manoa, keynote speaker, Honolulu, Hawai'i, May 19, 2014.*

*Rasmuson Foundation Bill & Melinda Gates Foundation Alaska Visit, accompanied and informed Dr. Chris Elias, President of the Global Development Program, Allan Golston, President of the United States Program Dana Hovig, director of Integrated Delivery as a member of a team of Alaskan leaders and experts, May 5-6, 2014.*

*Rotary Club of Palmer, Stop Paying for Failure and Transform Education, keynote speaker, Anchorage, Alaska, April 10, 2014.*

*Alyeska Pipeline Service Company, Education Reform, invited speaker, Anchorage, Alaska, February 7, 2014.*

*University of Montana lecture and workshops: 1) Fundraising for Education Reform, 2) Stop Paying for Failure and Transform Education, and 3) Specific Fundraising Strategies Fundraising for Education Reform, invited speaker and workshop presenter, Missoula, Montana, February 4, 2014.*

*19<sup>th</sup> Alaska Native Science & Engineering Celebration, Stop Paying for Failure and Transform Education, Anchorage, Alaska, January 31, 2014.*

*The 28<sup>th</sup> Alaska State Legislature Senate Finance Education Subcommittee, Invited Presentation: Alaska Native Science & Engineering Program (ANSEP) Longitudinal Educational Model, co-presenter with Michael Bourdukofsky, P.E., ANSEP Chief Operations Officer, Anchorage, Alaska, October 30, 2013.*

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**Invited Lectures, Invited Expert Contributions, and Speaking Engagements (cont.)**

*Anchorage “Downtown” Rotary Club, Stop Paying for Failure and Transform Education, keynote speaker, Anchorage, Alaska, October 29, 2013.*

*2013 Louis Stokes Midwest Center of Excellence Conference, A Call to Action, LSAMP Model for Broadening Participation in STEM, sponsored by Chicago State University, Indiana University - Purdue University Indianapolis, Argonne Labs, Stop Paying for Failure and Transform Education, keynote speaker, and Commitment to Broadening Participation: Five LSAMP Leaders’ Perspectives on Impact, a Panel Discussion, panelist, Indianapolis, Indiana, October 22, 2013.*

<https://www.youtube.com/watch?v=FyjIMipiXwU>

<https://www.youtube.com/watch?v=dfRN75wO6PM>

The American Society for Engineering Education (ASEE), the National Academy of Engineering (NAE), and Virginia Tech’s Center for Enhancement of Engineering Diversity hosted the *Surmounting the Barriers: Ethnic Diversity in Engineering Education* workshop, funded by the National Science Foundation (NSF). I was one of fifty invited stakeholders selected from communities of diversity researchers, social scientists, organizational change researchers, engineering educators, and individuals and organizations working to enhance the participation, performance, and advancement of diverse populations in engineering education. Washington, DC, September 26-27, 2013.

*2013 Week of the Arctic, Institute of the North, Workforce Development in Northern Regions, panelist, Anchorage, Alaska, August 12, 2013.*

*The 28<sup>th</sup> Alaska State Legislature Senate Education Committee, invited presentation: Alaska Native Science & Engineering Program (ANSEP), co-presenter with Michael Bourdukofsky, P.E., ANSEP Chief Operations Officer, Juneau, Alaska, February 11, 2013.*

*2012 Alfred P. Sloan Foundation, Sloan Indigenous Graduate Partnership (SIGP) Program Director/Faculty Meeting, session facilitator, Anchorage, Alaska, November 1, 2012.*

*2011 NACME National Symposium, Confronting the “New” American Dilemma Part II: Responses to the NACME Calls to Action, General Session III, Creating Systemic Change in Recruiting, Enrolling, Educating, Retaining, and Graduating Underrepresented Minority Students in Engineering, panelist, St. Paul, Minnesota, October 19, 2011.*

*2011 Kuskokwim Area Interagency Fisheries Meeting, Education and Outreach: ANSEP, co-presenter with Beth Spangler, Anchorage, Alaska, March 16, 2011.*

*2010 Sloan Minority Program Directors Conference, Alfred P. Sloan Indigenous Graduate Partnership (SIGP), session facilitator, Tampa, Florida, October 30, 2010.*

*Anchorage School District In-service for math and science teachers, Alaska Native Science & Engineering Program, co-presenter with Michael Nabers, August 13, 2010.*

*National Action Council for Minorities in Engineering (NACME), National Roundtable: Beyond the Dream: From Developmental Mathematics to Engineering Careers for Underrepresented Minorities, invited expert, Austin Texas, April 15-17, 2009.*

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**Invited Lectures, Invited Expert Contributions, and Speaking Engagements (cont.)**

*Committee on Equal Opportunities in Science and Engineering and National Science Foundation Centers Forum Mini-Symposium: Broadening Participation of Native Americans in Science and Engineering: Lessons Learned, Alaska Native Science & Engineering Program (ANSEP), Building a National Model for Excellence in Native American Higher Education Programs, session speaker, Arlington, Virginia, October 29, 2008.*

*National Science Foundation Partnerships for Innovation (PFI) Workshop, poster presentation, PFI Graduates Session, TALPA: Technology Applications and Learning toward Professional Achievement, presenter, Arlington, Virginia, March 30, 2008.*

*National Science Foundation Partnerships for Innovation (PFI) Workshop Panel, Building On and Continuing the Program after the PFI Opportunity: Graduates' Strategies and Accomplishments, panelist, Arlington, Virginia, March 31, 2008.*

*National Science Foundation Partnerships for Innovation (PFI) Workshop, Increasing Participation of Underrepresented Groups and Institutions Session, co-moderator with Sheik Jeelani, Arlington, Virginia, March 31, 2008.*

*Alaska Native Science & Engineering Program Dissemination Conference, panelist with Marc McCullough, Lilikala Kame'eleihiwa and Diane Kaplan, Anchorage, Alaska, October 13, 2007.*

*National Action Council for Minorities in Engineering (NACME) Annual and Corporate Partner Workshop, Expanding Opportunities for Minority Students in Engineering in the Post-Michigan Era, The Alaska Native Science & Engineering Program, presenter, Boulder, Colorado, July 30, 2007.*

*The Education Policy Institute Retention 2007 Conference, Leading Edge Practices in the Success of Underrepresented Minority Engineering Students Session, co-presenter with Aileen Walter and Gordon Moore, San Antonio, Texas, May 24, 2007.*

*Society of American Military Engineers, Regional Conference, presenter, Anchorage, Alaska, March 2007.*

*South Dakota School of Mines and Technology, Alaska Native Science & Engineering Program (ANSEP), Rapid City, South Dakota, January 23, 2007.*

*Oregon State University, Alaska Native Science & Engineering Program (ANSEP), Corvallis Oregon, November 2006.*

*Kuskokwim Community College, Alaska Native Science & Engineering Program (ANSEP), Bethel, Alaska, January 2006.*

*Rasmuson Foundation, Tour for Alaska Funders, Alaska Native Science & Engineering Program (ANSEP), Alaska Native Heritage Center, Anchorage, Alaska, August 2005.*

*Alaska Native Claims Settlement Act (ANSCA) CEO Board Meeting, Alaska Native Science & Engineering Program (ANSEP), June 2005.*

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**Invited Lectures, Invited Expert Contributions, and Speaking Engagements (cont.)**

*National Science Foundation*, 2004 Presidential Awards for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM), Alaska Native Science & Engineering Program, presenter, Park Hyatt Hotel, Washington, D.C., May 2005.

*National Academy of Engineering*, Workshop on Engineering Studies at Tribal Colleges, Recruitment and Retention of Tribal Students in Two- and Four-Year Educational Institutions, co-presenter with Teresa Gomez and Dawn Valencia; and invited expert, National Academies, Washington D.C., March 15, 2005.

*Disney Institute*, Alaska Section of the American Society for Quality in cooperation with the University of Alaska Corporate Programs, keynote speaker, Anchorage, Alaska, April 2003.

*AMS-MER Workshop on Excellence in Undergraduate Mathematics: Lessons Across the Curriculum*, University of Alaska Anchorage, September 11-14, 2003.

*Bristol Bay Native Corporation 30<sup>th</sup> Annual Village Leadership Workshop*, Alaska Native Science & Engineering Program (ANSEP), Anchorage, Alaska, December 2-3, 2002.

*North Slope Borough School District Principals Conference*, Alaska Native Science & Engineering Program (ANSEP), October 2002.

*Rasmuson Foundation Educational Meeting*, Alaska Native Science & Engineering Program (ANSEP), Anchorage, May 30, 2002.

*Denali Commission*, Sustainable Infrastructure for Alaska, Lessons from ANSEP, Anchorage, Alaska, July 2001.

*American Society for Engineering Education*, An Example of Including Scientists in an Engineering Management Program, co-presenters J. W. Ra and T. G. Eschenbach, Anaheim, CA, June 25-28, 1995.

**University Service at the University of Alaska Anchorage**

Alaska Native Task Force, *member*, 2013 to 2015.

American Indian Science and Engineering Society at UAA, *faculty advisor*, 2001 to 2015.

Student Design Competition, School of Engineering, *coordinator*, Fall 2008 to Spring 2010.

Planning Budget and Review Committee (PBAC), *School of Engineering representative*, 2006 to 2007.

Chancellor's Council on Alaska Native Student Success, *chair*, 2005 to 2007.

Task Force on Undergraduate Research & Scholarship, *member*, 2004 to 2005.

Community and Technical College Annual Fall In-Service, *group facilitator*, August 2004.

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**University Service at the University of Alaska Anchorage (cont.)**

Alaska Native Science & Engineering Program (ANSEP) Building Design Advisory Committee, *member*, December 2003 to July 2004.

National Summer Transportation Institute, US Department of Transportation, Federal Highway Administration, *program evaluator*, School of Business, Spring 2004.

School of Engineering Scholarship Committee, *member*, 1998 to 2003.

Project Management Training, American Russian Center, *trainer*, March 2002.

Provost Council for Academic Advising, *member*, 2001.

School of Engineering Scholarship Committee, *chair*, 1993 to 1998

Faculty Senate Executive Committee, *member*, 1995 to 1996.

Energy Conservation Committee, *member*, 1994 to 1996.

Program Assessment, Subcommittee on Student Services, *chair*, 1994 to 1995.

School of Engineering Computer Committee, *member*, 1993 to 1995.

**Professional Service and Professional Development**

Alaska SeaLife Center Board of Directors, *member*, Alaska, 2018 to Present.

Alaska Wildlife Conservation Center (AWWC) Board of Directors, *member*, Alaska, 2017 to Present.

The Louis Stokes Midwest Center of Excellence (LSMCE) Advisory Board, *member*, November 2012 to Present.

Rasmuson Foundation Philanthropic Funders Tour, ANSEP Meeting, *coordinator*, and Train Ride, *invitee*, Anchorage, Alaska, August 2018.

*Broadening Participation in Engineering Dissemination Conference*, National Science Foundation award to plan and host a four-day, hands-on conference that engaged 70 leaders from nine regional education groups from around the nation in ANSEP's programmatic components, *conference director and NSF award PI*, Anchorage, Alaska, January 17-20, 2018.

Kativik Board, *member*, sponsored by Alyeska Pipeline Service Company, to design a culturally appropriate gathering site for Alaska Natives and others at the Alaska State Fairgrounds, January 2013 to August 2017.

Rasmuson Foundation Philanthropic Funders Tour, ANSEP Meeting, *coordinator*, and Train Ride, *invitee*, Anchorage, Alaska, August 2017.



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**Professional Service and Professional Development (cont.)**

Native Hawaiian Science & Engineering Mentorship Program Graduation Poi Supper, University of Hawai'i at Manoa, *university partner*, Honolulu, Hawai'i, May 2, 2017.

Alfred P. Sloan Indigenous Graduate Partnership (SIGP) Program Principle Investigators Group, *member*, Purdue University, Montana Tech, University of Alaska Anchorage, University of Arizona, University of Montana, 2012 to 2016.

The Alaska Zoo Research Advisory Committee, *member*, Anchorage, Alaska, 2014 to 2016.

The LSAMP 25<sup>th</sup> Anniversary Symposium Planning Committee, *vice chair*, The Louis Stokes Alliances for Minority Participation (LSAMP) program, National Science Foundation, 2016.

Rasmuson Foundation Philanthropic Funders Tour, Train Ride, August 31, 2016 and Silver Salmon Camp, *invitee*, September 1, 2016.

2014 Annual Meeting, Alfred P. Sloan Foundation, Sloan Indigenous Graduate Partnership (SIGP), *participant*, Orlando, Florida, November 14, 2014.

2013 National Action Council for Minorities in Engineering, Inc. (NACME) National Symposium, Take Action: Changing STEM Education for URM's through Research and Policy, *invited participant*, Washington DC, October 1-3, 2013.

3rd Annual NACME Continuum Meeting held in conjunction with the National Academy Foundation's (NAF) Academy of Engineering (AOE) Counselor & Leadership Conference, *invited participant*, Washington DC, September 30-October 1, 2013.

ANSEP Indigenous Alliance Annual Conference, *coordinator*, 2008 to 2012, Universities participating: University of Alaska Anchorage, University of Alaska Fairbanks, Kuskokwim Community College, University of Hawai'i Manoa, Kapi'olani Community College, University of Colorado Boulder, University of Washington, University of Idaho, University of North Dakota, South Dakota School of Mines and Technology, University of Montana, and the University of Arizona.

Rasmuson Fisheries Excellence Committee, Anchorage, Alaska, 2007 to 2012.

Presidential Awards for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM), *review panel member*, National Science Foundation, Directorate for Education and Human Resources, Division of Human Resource Development, Washington, D.C., October 31-November 1, 2011.

Alaska Federation of Natives (AFN) Alaska Marketplace: Planting the Seeds of Change, \$600,000 Business Award Pool, *essay proposal assessor*, Anchorage, Alaska, October 2011.

Engineering, and Mathematics Talent Expansion Program (STEP); and Innovation Through Institutional Integration (I3), *board member*, Honolulu, Hawai'i, 2007 to 2010.

Math and Science Programs (MSP), *review panel member*, National Science Foundation, Washington, D.C., October 19-20, 2009.

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**Professional Service and Professional Development (cont.)**

Alaska Manufacturing Extension Partnership (AMEP) Board of Directors, Anchorage, Alaska, *member*, 2006 to 2008.

Alaska Federation of Natives (AFN) Alaska Marketplace: Innovations for Thriving Communities, \$600,000 Award Pool, *award judge*, Anchorage, Alaska, October 2008.

Presidential Awards for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM), *review panel member*, National Science Foundation, Directorate for Education and Human Resources, Division of Human Resource Development, Washington, D.C., June 2008.

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International Symposium on Cold Region Development (ISCORD), *paper reviewer and moderator*, Cold Region Concreting Section, Anchorage, Alaska, May 1997.

**Past Consulting Services through the UAA School of Engineering**

Alaska Native Health Service, \$4,012, *Alaska Native Health Information Conference Facilitation Services*, with Ted Eschenbach and Mary Uhl-Bien, 1994 to 1995.

U.S. Army Corps of Engineers, \$9,359, *Process Action Team for Management of Small Projects*, with Ted Eschenbach and Jang Ra, 1994 to 1995.

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**Past Consulting Activities**

*Indian Health Service, Environmental Health Support Center, Phoenix, Arizona*  
Project Management Training

*United State Public Health Service Office of Environmental Health and Engineering*  
Management process analysis, re-design and implementation; job cost and accounting software analysis, recommendation, and implementation; software development

*Udelhoven Oilfield System Services, Inc.*  
Management process analysis, process re-design and implementation; software development

*H.C. Price Construction*  
Construction planning, proposal development, cost estimating, software development

*Conam Construction*  
Construction planning, proposal development, cost estimating, software development

*United States Office of Technology Assessment*  
Village sanitation background research and economic analysis  
United States Bureau of Land Management (Quality Technology Company)

*Management Systems Analysis of the Trans Alaska Pipeline System*  
Expert witness for the U.S. Congress

*State of Alaska Department of Transportation and Public Facilities*  
Contractor/owner partnering facilitation

*United States Air Force*  
Contractor/owner partnering facilitation

*Peak Oilfield Service Company*  
Construction planning, cost estimating

*Norcon, Inc.*  
Construction planning, cost estimating

*McCrary and McCrary, Inc.*  
Expert witness

*Global Environmental Systems, Inc.*  
Process analysis, cost estimating

*Dryden & LaRue, Inc.*  
Construction planning, conceptual cost estimating for the Healy-Fairbanks inter-tie

*Alaska Utility Construction, Inc.*  
Construction planning, cost estimating

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**Past Consulting Activities (cont.)**

*Summit Paving and Construction*  
Contractor/owner partnering facilitation

*United States Army Corps of Engineers*  
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*American Indian Science and Engineering Society (AISES)*

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