

Herb Ilisaurri Schroeder, PhD
University of Alaska Anchorage
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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

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, 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 with donations from nine ANSEP partner organizations 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.

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.

National Science Foundation Distinguished Lecture Series, invited lecturer, *Transforming education: Improving quality, cost, and outcomes*, co-sponsored by the Engineering Directorate and the Education & Human Resources Directorate, Washington, D.C., August 5, 2019.

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.

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Recognitions and Honors (cont.)

Western States Seismic Policy Council 2020 National Award in Excellence in the Category—Outreach, for NSF Earthscope Alaska Native Geoscience Learning Experience (ANGLE), partners Alaska Pacific University, University of Alaska Anchorage, and Central Washington University, February 2020.

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

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 to Present), Executive Director and Founder (1995), *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.

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Academic Experience (cont.)

- 2005 to Present Professor, *Civil Engineering, College of Engineering, UAA*
- 2005 to 2010 Associate Dean, *School of Engineering, UAA*
- 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*. Awarded September 19, 2017.
- 2008 to Present Director, *ANSEP Graduate Success Component for University of Alaska*
The ANSEP *Graduate Success* component was created 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. National program ended in August 2017.
- 2008 to 2013 Principal Investigator and Project Director, *Partnerships for Innovation (PFI) Program, Building on Success: Indigenous Alliance Expansion, at UAA*.

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Academic Experience (cont.)

- 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.
- 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.*

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Academic Experience (cont.)

- 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*

Industrial Experience

Construction Consultant (See *Past Consulting Activities* sections 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

Course 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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Course 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 0oC*, 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 William R. Peterson & Ted G. Eschenbach (Eds.), *Cases in Engineering Economy*, (2nd ed., pp. 57-58). New York: Oxford University Press.

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

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

Schroeder, Herb (2002). Case Contributor, In William R. Peterson & Ted G. Eschenbach (Eds.), *Cases in Engineering Economy*. New York: Oxford University Press.

Gunderson, David E., Ra, Jang W., Schroeder, Herb, & Holland, H. R. (2002). Needs assessment – A construction management bachelor of science degree program in Alaska, *Journal of Construction Education*, 7(2), 86–96.

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

Morganthaler, George W., & 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, Volume 90, Science and Technology Series*, San Diego, CA: Univelt, Inc. ISBN 0-87703-420-6.

Schroeder, Herbert P., & Wood, Thomas, B., (1996). Concrete/reinforcement steel bond strength of low-temperature concrete, *ASCE Journal of Cold Regions Engineering*, 10(2), 93-117.

Schroeder, Herb, (1993). Book Review, Win-Win Negotiating: A Professional's Playbook, *Engineering Management Journal*, 5(2), 43.

Schroeder, Herb, (1992). Approaches for computer integrated construction, *Engineering Management Journal*, American Society for Engineering Management, 4(2), 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, Herb, & Stinebaugh Michael J. (1981). Waste heat for a village greenhouse, *The Northern Engineer*, 13(3), 16-19.

Professional Society Conference Proceedings and Paper Presentations

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

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

Schroeder, Herbert P., & Lazzell, Linda P., *A longitudinal model to increase the enrollment and graduation of Alaska Native/American Indian engineering undergraduates*. In Proceedings of the 120th American Society of Engineering Education Annual Conference and Exposition, Atlanta, Georgia, June 24, 2013. <https://peer.asee.org/a-longitudinal-model-to-increase-the-enrollment-and-graduation-of-alaska-native-american-indian-engineering-undergraduates>

Wagner, Dennis J., & 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.

Ritz, Paul, & 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.

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Professional Society Conference Proceedings and Paper Presentations (cont.)

Mason, Michael R., & 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., & 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., & 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., & 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., & 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., & 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, & 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

Schroeder, Herb, & 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>

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

Furman, T., Gardella, J. A., Pagni, D. L., Puri, A., Schrader, C. C., & Tucker, S. A. (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.
<https://www.aaas.org/sites/default/files/2019-04/2005%20PAESMEM%20Awardees%20White%20Paper.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., & 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., & 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

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.

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.

2019 to Present Principle Investigator, *NOAA Support of ANSEP, National Oceanic and Atmospheric Administration (NOAA)*, \$250,000, UAA Grant # G-13023.

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Federal Awards and Grants (cont.)

- 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. Grant award began September 15, 2017.
- 2017 to Present Principal Investigator, *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.
- 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.

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Federal Awards and Grants (cont.)

- 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.

State Grants

- 2020 to Present *2020 Bering Strait School District (BSSD) Middle School Academy*, \$144,000, UAA Grant # G-13251.
- 2020 to Present *2020 Kenai Peninsula Borough School District (KPBSD) Middle School Academy*, Anchorage Alaska, \$54,000 UAA Grant # G-13154.
- 2020 to Present *2020 Lower Kuskokwim Borough School District (LKSD) Middle School Academy*, Anchorage, Alaska, \$160,000, UAA Grant # G-13174.
- 2020 to Present *2020 Lower Yukon Borough School District (LYSD) Middle School Academy*, Anchorage, Alaska, \$21,000, UAA Grant # G-13088.

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State Grants (cont.)

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| 2020 to Present | <i>2020 Mat-Su Borough School District (MSBSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-13256.</i> |
| 2020 to Present | <i>2020 Nome Public Schools Middle School Academy, \$18,000, UAA Grant # G-13285.</i> |
| 2020 to Present | <i>2019 Yupiit School District Middle School Academy, \$45,000, UAA Grant # G-13090.</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 Mat-Su Borough School District (MSBSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-12491.</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-12667.</i> |
| 2018 to 2019 | <i>2018 Anchorage School District (ASD) Middle School Academy, Anchorage Alaska, \$160,000 UAA Grant # G-11832.</i> |
| 2018 to 2019 | <i>2018 Bering Strait School District (BSSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-11946.</i> |
| 2018 to 2019 | <i>2018 Kenai Peninsula Borough School District (KPBSD) Middle School Academy, Anchorage Alaska, \$35,200 UAA Grant # G-11947.</i> |
| 2018 to 2019 | <i>2018 Lower Kuskokwim Borough School District (LKSD) Middle School Academy, Anchorage, Alaska, \$126,000, UAA Grant # G-11903.</i> |
| 2018 to 2019 | <i>2018 Lower Yukon Borough School District (LYSD) Middle School Academy, Anchorage, Alaska, \$69,000, UAA Grant # G-11826.</i> |
| 2018 to 2019 | <i>2018 Mat-Su Borough School District (MSBSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-11856.</i> |
| 2018 to 2019 | <i>2018 Northwest Arctic Borough School District (NWABSD) STEM Ready Academy, Anchorage Alaska, \$52,000, UAA Grant # G-12100.</i> |

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State Grants (cont.)

- 2018 to 2019 *2018 Northwest Arctic Borough School District (NWABSD) Middle School Academy, Anchorage Alaska, \$160,000, UAA Grant # G-12008.*
- 2017 to 2019 *2017 Northwest Arctic Borough School District (NWABSD) STEM Ready Academy, Anchorage Alaska, \$52,000, UAA Grant # G-11482.*
- 2017 to 2019 *2017 Northwest Arctic Borough School District (NWABSD) Middle School Academy, Anchorage Alaska, \$160,000, UAA Grant # G-11768.*
- 2015 to 2019 *North Slope Borough MOU, North Slope Borough, \$21,500, UAA Grant # G-10142.*
- 2014 to 2019 *Alaska Native Science & Engineering Program Middle School Component, Alaska Department of Early Education & Development (DEED), State of Alaska, \$1,000,000 capital project grant, UAA Grant # G-9649.*
- 2019 *Bering Strait School District (BSSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-12444.*
- 2019 *2019 Kashunamiut School District (KSD) Middle School Academy, Anchorage, Alaska, \$36,000, UAA Grant # G-12490.*
- 2019 *2019 Kenai Peninsula Borough School District (KPBSD) Middle School Academy, Anchorage Alaska, \$69,000 UAA Grant # G-12441.*
- 2019 *2019 Lower Kuskokwim Borough School District (LKSD) Middle School Academy, Anchorage, Alaska, \$126,000, UAA Grant # G-12532.*
- 2019 *2019 Lower Yukon Borough School District (LYSD) Middle School Academy, Anchorage, Alaska, \$21,000, UAA Grant # G-12497.*
- 2019 *2019 North Slope Borough School District (NSBSD) Middle School Academy, Anchorage Alaska, \$160,000, UAA Grant # G-12598.*
- 2017 to 2018 *2017 Anchorage School District (ASD) Middle School Academy, Anchorage Alaska, \$320,000 UAA Grant # G-11236.*
- 2017 to 2018 *2017 Kenai Peninsula Borough School District (KPBSD) Middle School Academy, Anchorage Alaska, \$33,000 UAA Grant # G-11265.*
- 2017 to 2018 *2017 Lower Kuskokwim Borough School District (LKSD) Middle School Academy, Anchorage, Alaska, \$126,000, UAA Grant # G-11324.*
- 2017 to 2018 *2017 Mat-Su Borough School District (MSBSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-11237.*
- 2016 to 2018 *2016 Bering Strait School District (BSSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-11145.*

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State Grants (cont.)

- 2016 to 2018 *2016 Northwest Arctic Borough School District (NWABSD) Middle School Academy, Anchorage Alaska, \$132,000, UAA Grant # G-11069.*
- 2016 to 2017 *2016 Anchorage School District (ASD) Middle School Academy, Anchorage Alaska, \$160,000, UAA Grant # G-10816.*
- 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.*
- 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.*
- 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.*

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Foundation and other Private Grants and Donations

| | |
|-----------------|--|
| 2020 to Present | Alaska Community Foundation, <i>2020 Bristol Bay Middle School Academy</i> , \$50,000, UAA Grant # S-27324. |
| 2020 to Present | Alaska Native Tribal Health Consortium, <i>ANTHC Support for ANSEP</i> , \$60,000, UAA Grant # G-12929. |
| 2020 to Present | Harvard Kennedy School, <i>Harvard Ash Dissemination</i> , \$5,000, UAA Grant # G-12767. |
| 2020 to Present | National Action Council for Minorities in Engineering (NACME), <i>NACME Block Grant for ANSEP</i> , \$120,000, UAA Grant # S-27206. |
| 2020 to Present | National Fish and Wildlife Foundation, <i>NFWF 2020 Alaska Fish and Wildlife</i> , \$9,266, UAA Grant # S-27286. |
| 2020 to Present | National Fish and Wildlife Foundation, <i>NFWF/USFWS Eider & Polar Bear Project</i> , \$39,902, UAA Grant # S-27568. |
| 2020 to Present | Sealaska Corporation, <i>Sealaska Support of ANSEP</i> , \$10,000, UAA Grant # G-13261. |
| 2020 to Present | Yukon River Inter-Tribal Watershed, <i>YRITWC Support of ANSEP</i> , \$5,000, UAA Grant # G-13318. |
| 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 | Alaska Community Foundation, <i>2019 Bristol Bay Middle School Academy</i> , \$50,000, UAA Grant # G-12531. |
| 2019 to Present | National Fish and Wildlife Foundation, <i>NFWF 2019 Alaska Fish and Wildlife</i> , \$150,000, UAA Grant # G-12746. |
| 2019 to Present | National Fish and Wildlife Foundation, <i>ANSEP and EEZ</i> , \$20,000, UAA Grant # G-12626. |
| 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 Foundation, <i>ECMC Support for ANSEP</i> , \$600,000, UAA Grant # G-11893; <i>COVID-19 Rapid Response for ANSEP</i> , \$10,000, UAA Grant # S-27750, <i>ECMC Donation, 2020</i> , \$1,600. |
| 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 | Rasmuson Foundation, <i>ANSEP Support 2018-28</i> , \$5,000,000, UAA Grant # G-12267. |
| 2017 to Present | Alaska Airlines Travel Grant, <i>ANSEP Middle School</i> , \$1,000,000, (in-kind air travel). |
| 2017 to Present | ANTHC Support of ANSEP FY17-21, Alaska Native Tribal Health Consortium (ANTHC), \$29,000, UAA Grant # G-11196. |
| 2016 to Present | Defenders Support of ANSEP, Defenders of Wildlife, \$104,000, UAA Grant # G-10708. |
| 2016 to Present | National Fish and Wildlife Foundation, ANSEP/USFS, \$348,000, UAA Grant # G-10507. |
| 2014 to Present | Oak Foundation, <i>Science Development for ANSEP</i> , \$550,000, Grant # G-10167. |
| 2012 to Present | National Action Council for Minorities in Engineering (NACME), <i>ANSEP Scholarships</i> , \$240,000, UAA Grant # G-8558; <i>NACME Block Grant for ANSEP</i> , \$120,000, UAA Grant # S-27206. |
| 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; <i>ANSEP Sloan Foundation Support</i> , \$105,280, UAA Grant # S-26750. |
| 2020 | Association of ANCSA Regional Corporation Presidents/CEOs, <i>ANSEP programmatic support</i> , \$5000. |
| 2020 | BP Exploration, Inc., <i>ANSEP programmatic support</i> , \$100,000. |
| 2020 | Bristol Bay Native Corporation Education Foundation, <i>ANSEP programmatic support</i> , \$15,000. |
| 2020 | Charities Aid Foundation of America, <i>ANSEP programmatic support</i> , \$1,000. |
| 2020 | ConocoPhillips, <i>ANSEP programmatic support</i> , \$172,500. |
| 2020 | ECMC Foundation, <i>ANSEP programmatic support</i> , \$1,600. |
| 2020 | ExxonMobil Corporation, <i>ANSEP programmatic support</i> , \$150,000. |
| 2020 | Fermi Research Alliance, LLC, <i>ANSEP programmatic support</i> , \$10,000. |
| 2020 | Oil Search Alaska, <i>ANSEP programmatic support</i> , \$40,000. |

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Foundation and other Private Grants and Donations (cont.)

| | |
|--------------|---|
| 2020 | Peak Oilfield Services Co., LLC, <i>ANSEP programmatic support</i> , \$125,000. |
| 2020 | Sealaska Corp, <i>ANSEP programmatic support</i> , \$50,000. |
| 2020 | Stantec Consulting Services, Inc., <i>ANSEP programmatic support</i> , \$5,000. |
| 2020 | Annual gifts and donations individuals, <i>ANSEP programmatic support</i> , \$60,700. |
| 2018 to 2019 | <i>2018 Bristol Bay Middle School Academy</i> , Alaska Community Foundation, \$50,000, UAA Grant # G-11899. |
| 2016 to 2019 | Association of Village Council Presidents (AVCP), <i>ANSEP/AVCP Career Prep</i> , \$2,192,800, UAA Grant # G-10718. |
| 2012 to 2019 | National Fish and Wildlife Foundation, <i>ANSEP Support-USFWS</i> , \$717,000, UAA Grant # G-8041. |
| 2019 | Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$175,000. |
| 2019 | Annual gifts and donations individuals, <i>ANSEP programmatic support</i> , \$59,400. |
| 2019 | AT&T, <i>ANSEP programmatic support</i> , \$17,000. |
| 2019 | BP Exploration, Inc., <i>ANSEP programmatic support</i> , \$100,000. |
| 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 | Orutsararmiut Native Council, <i>ONC Support of ANSEP- Year 2</i> , \$12,000, UAA Grant # G-11824. |
| 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. |

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Foundation and other Private Grants and Donations (cont.)

| | |
|--------------|--|
| 2013 to 2018 | Rasmuson Foundation Tier 2 Grant, <i>ANSEP Institutionalization and Sustainability</i> , \$5,000,000, UAA Grant # G-8953. |
| 2018 | <i>Bristol Bay Native Association</i> , BBNA Support of ANSEP, \$12,000. |
| 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. |
| 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 |

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Foundation and other Private Grants and Donations (cont.)

| | |
|--------------|--|
| 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. |
| 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 |

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| | |
|--------------|---|
| 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 |
| 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 |

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Foundation and other Private Grants and Donations (cont.)

| | |
|------|--|
| 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 |
| 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 |

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Foundation and other Private Grants and Donations (cont.)

| | |
|--------------|---|
| 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 |
| 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 |

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Foundation and other Private Grants and Donations (cont.)

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| 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 |
| 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 | Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$200,000 |
| 2008 | <i>Herbert P. Schroeder Endowed Chair of the Alaska Native Science & Engineering Program (ANSEP)</i> , \$4.4 million <ul style="list-style-type: none">• Rasmuson Foundation, \$2 million• Alyeska Pipeline Service Company, \$500,000• ASRC Energy Services, \$500,000• BP, \$500,000• Chevron, \$250,000• Shell Oil, \$250,000• Udelhoven Oilfield System Services, \$200,000• Cook Inlet Region Incorporated (CIRI), \$100,000• ConocoPhillips, \$100,000 |
| 2007 | Alfred P. Sloan Foundation, <i>Alaska Native Science & 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 & Engineering Program (ANSEP) Dissemination Conference</i> , \$100,000, Grant # 1075-0622 |
| 2007 | The Nathan Cummings Foundation, <i>Alaska Native Science & Engineering Program (ANSEP)</i> , with Elaine Maimon, \$25,000, Grant # 06-01262 |
| 2007 | TeckCominco, <i>ANSEP programmatic support</i> , \$150,000 |

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Foundation and other Private Grants and Donations (cont.)

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|--------------|--|
| 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</i> , \$65,000 |
| 2006 | Microsoft Corporation, <i>ANSEP programmatic support</i> , \$50,000 cash and \$209,400 in Microsoft software and Microsoft Curriculum |
| 2003 to 2005 | Alyeska Pipeline Service Company, <i>ANSEP University Retention</i> , \$215,000 (2005); \$195,000 (2003 to 2004) |
| 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 |
| 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">• Rasmuson Foundation, \$2,000,000• Denali Commission, \$250,000• University of Alaska, \$750,000 (BP/Conoco money)• U.S. Department of Education Congressional FY05 earmark, \$1,000,000• Alyeska Pipeline Service Company, \$300,000• JL Properties, \$1,600,000 |
| 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 |

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Foundation and other Private Grants and Donations (cont.)

| | |
|--------------|--|
| 2004 | Alyeska Pipeline Service Company, <i>ANSEP Summer Bridge</i> , \$8,500 |
| 2002 to 2003 | Alyeska Pipeline Service Company, <i>ANSEP University Retention</i> , \$192,000 |
| 2003 | BP Exploration, <i>Alliances of Learning and Vision for underrepresented Americans Summer Bridge</i> , \$65,000 |
| 2003 | NANA, <i>Alliances of Learning and Vision for underrepresented Americans 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 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 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 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 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 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 |
| 1998 to 1999 | Alyeska Pipeline Service Company, <i>ANSEP University Retention</i> , \$35,000 |
| 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 Summer Bridge</i> , \$56,000 cash and \$50,000 in-kind. |
| 1997 to 1998 | Alyeska Pipeline Service Company, <i>ANSEP University Retention</i> , \$39,000 |
| 1998 | BP Exploration (Alaska), Inc., <i>Alliances of Learning and Vision for underrepresented Americans</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. |

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- 1996 to 1997 Anchorage Sand & Gravel, U.S. Public Health Service, and DOW Chemical Company, *Cold Weather Concrete Field Durability Testing*, \$4,500 in materials.
- 1995 to 1997 Alyeska Pipeline Service Company, *ANSEP University Retention* 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, *Freeze- Thaw Durability of Concrete Cured Below 0°C Using Antifreeze Admixtures*, \$3,500 in materials.
- 1995 to 1996 Storburn, Inc. and Enstar Natural Gas Company. *Life Cycle Cost Analysis of a Storburn Combustion Toilet*, \$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.urban.org/sites/default/files/alfresco/publication-pdfs/2000073-Building-Alaska-Science-and-Engineering-Pipeline.pdf>
<http://files.eric.ed.gov/fulltext/ED559316.pdf>

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

National Science Foundation Research

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 (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 – 2020.

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 122nd 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.

ANSEP in National Academies Press

National Academies of Sciences, Engineering, and Medicine (2019). *Minority Serving Institutions: America's Underutilized Resource for Strengthening the STEM Workforce*. Washington, DC: The National Academies Press. Alaska Native Science & Engineering Program featured on pages 4, 125, 128, 129. <https://www.nap.edu/catalog/25257/minority-serving-institutions-americas-underutilized-resource-for-strengthening-the-stem>

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.

Anchorage Chamber of Commerce “Make it Monday” forum, invited speaker, *Transforming Alaska's education system*, January 6, 2020, Anchorage, Alaska. <https://business.anchoragechamber.org/events/details/make-it-monday-forum-transforming-alaska-s-education-system-7705>

UAA College of Engineering Advisory Board, invited speaker, *Presentation on the systemic changes taking place in the Alaskan education system being driven by the ANSEP sequential model*, Anchorage, Alaska, December 6, 2019.

Northwest Commission on Colleges and Universities 2019 Annual Conference, invited speaker, *Transforming education: Improving quality and cost*, Seattle Washington, November 22, 2019.

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

National Science Foundation Distinguished Lecture Series, invited lecturer, *Transforming education: Improving quality, cost, and outcomes*, co-sponsored by the Engineering Directorate and the Education & Human Resources Directorate, Washington, D.C., August 5, 2019.

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 Program 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.

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

23rd Alaska Native Science & Engineering Program 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

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.

22nd Alaska Native Science & Engineering Program Celebration, 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.

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

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 29th 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.

21st *Alaska Native Science & Engineering Program Celebration*, speaker, Anchorage, Alaska, January 29, 2016.

The 29th 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.

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.

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

20th *Alaska Native Science & Engineering Program 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) PI/PD 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.

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

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.

19th Alaska Native Science & Engineering Program Celebration, *Stop Paying for Failure and Transform Education*, speaker, Anchorage, Alaska, January 31, 2014.

The 28th 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.

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=FyjIMlpiXwU>

<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 28th 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.

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

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.

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'eiehiwa 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.

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

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.

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 30th 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.

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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.

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.

Rasmuson Foundation Philanthropic Funders Tour, Train Ride, Anchorage, Alaska, August 2019.

The Louis Stokes Midwest Center of Excellence (LSMCE) Advisory Board, *member*, 2012 to 2019.

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

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Professional Service and Professional Development (cont.)

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.

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 25th 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 URMs 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.

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Professional Service and Professional Development (cont.)

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.

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.

Alfred P. Sloan Foundation, American Indian Graduate Center, *proposal reviewer*, November 2007.

Alaska Native Science & Engineering Program Dissemination Conference, *conference chair*, University of Alaska Anchorage, Anchorage, Alaska, October 11-13, 2007.

AIA NW + Pacific Regional Case Study Conference: Knowledge by Design, Case Study Prize Finalist Presentation Alaska Native Science & Engineering Program, RIM First People, RIM Architects, *co-presenter*, with Aaron Joseph and Michael Nabers, Seattle, Washington, August 6, 2005.

National Academies Workshop on Engineering Studies at the Tribal Colleges, *invited expert*, Washington, D.C., March 15-16, 2005.

Presidential Awards for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM), *review panel member*, National Science Foundation, Washington, D.C., April 2002.

Tribal Colleges and Universities Program (TCUP), *review panel member*, National Science Foundation, Directorate for Education and Human Resources, Division of Human Resource Development, Washington, D.C., April 2002.

National Aeronautics and Space Administration (NASA), Ralph Steckler/Space Grant Colonization Research and Technology Opportunity, *reviewer*, June 2002.

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

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Past Consulting Activities 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.

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, and cost estimating; software development

Conam Construction
Construction planning, proposal development, and 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

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Past Consulting Activities (cont.)

Dryden & LaRue, Inc.

Construction planning, conceptual cost estimating for the Healy-Fairbanks inter-tie

Alaska Utility Construction, Inc.

Construction planning, cost estimating

Summit Paving and Construction

Contractor/owner partnering facilitation

United States Army Corps of Engineers

Contractor/owner partnering facilitation

Professional Societies

American Indian Science and Engineering Society (AISES)

American Society for Engineering Education (ASEE)

Recent and Selected Media and Publications about ANSEP

Nguyen, Mary (2020). Juneau Afternoon, *KTOO Public Media*, July 24, 2020.

<https://www.ktoo.org/2020/07/23/our-cultural-landscape-virtual-conference-2/>

Education during the summer: ANSEP students get a head start before college, *KTVA The Voice of Alaska*, June 25, 2020. <https://www.ktva.com/story/42292652/choosing-education-during-the-summer-ansep-students-get-a-head-start-before-heading-off-to-college>

ANSEP prepares 23 high school graduates with adapted Summer Bridge component, *The Delta Discovery*, June 24, 2020. <https://deltadiscovery.com/ansep-prepares-23-high-school-graduates-with-adapted-summer-bridge-component/>

ANSEP prepares 23 high school graduates with adapted Summer Bridge component
UA News, University of Alaska, June 24, 2020. <https://www.alaska.edu/alaska/>

Eaton, Dominique (2020). How will states use the CARES Act Governor's Education Fund to support higher ed?, *Commentary*, The Century Foundation, June 23, 2020.
<https://tcf.org/content/commentary/will-states-use-governors-emergency-education-fund-support-higher-ed/?agreed=1>

Meyers, Catalina (2020). The next generation: A legacy of ANSEP and UAA, *Green & Gold News*, University of Alaska Anchorage, June 9, 2020.
https://www.uaa.alaska.edu/news/archive/2020/06/katherinesakeagak.cshhtml?utm_source=seawolfweekly&utm_medium=email&utm_content=SW_20200610&utm_campaign=Green+and+Gold+News

Shareholder Spotlight Debra Lane-Hayes, *Shareholder News*, Arctic Slope Regional Corporation, May 8, 2020. <https://www.asrc.com/spotlight/debra-lane-hayes/>

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ANSEP to host virtual acceleration academy and university success commencements, *Alaska Native News*, May 6, 2020. <https://alaska-native-news.com/ansep-to-host-virtual-acceleration-academy-and-university-success-commencements/48986/>

Gross, Scott (2020). ANSEP students in Rural Alaska adjust to distance learning challenges, *KTVB The Voice of Alaska*, May 5, 2020. <https://www.ktva.com/story/42093762/ansep-students-in-rural-alaska-adjust-to-distance-learning-challenges>

ANSEP marks achievements of nearly 50 graduates with virtual Acceleration Academy and University Success commencements, *Anchorage Press*, May 4, 2020. https://www.anchoragepress.com/bulletin/ansep-marks-achievements-of-nearly-50-graduates-with-virtual-acceleration-academy-and-university-success-commencements/article_826c3888-8e5d-11ea-a2c0-4f4a575b8a22.html

Andrecheck, Cindy (2020). Kuskokwim Campus Student of the Year Awards, *The Delta Discovery*, April 15, 2020. <https://deltadiscovery.com/kuskokwim-campus-student-of-the-year-awards-2/>

CWU researcher earns international acclaim, *Daily Record News*, April 8, 2020. https://www.dailyrecordnews.com/news/cwu-researcher-earns-international-acclaim/article_90353ca5-5624-543e-bf6b-f81a11c0887e.html

Sealaska invests in future Alaska Native scientists and engineers through ANSEP, *News*, Sealaska Corporation, March 9, 2020. <https://www.sealaska.com/shareholders/sealaska-invests-in-future-alaska-native-scientists-and-engineers-through-ansep/>

ANSEP Bristol Bay Middle School Academic Deadline, *Bristol Bay Native Corporation*, March, 2020. <https://www.bbnc.net/event/ansep-bristol-bay-middle-school-academy-deadline/>

Oliveros, Beatriz (2020). Dr. Bernard Harris, Jr. celebrates the 25th anniversary of his historic spacewalk, *Houston Life*, February 20, 2020. <https://www.click2houston.com/houston-life/2020/02/20/black-history-month-dr-bernard-harris-jr-celebrates-the-25th-anniversary-of-his-historic-spacewalk/>

Matthew Calhoun, Shareholder Spotlight, *Newsletters and Updates*, Doyon Limited, February 14, 2020. <https://www.doyon.com/shareholder-spotlight-matthew-calhoun/>

GJE at ANSEP, *News*, Gladys Jung Elementary, *News*, Lower Kuskokwim School District, February 12, 2020. https://gje.lksd.org/news/g_j_e_at_a_n_s_e_p

Hintze, Heather (2020). Internships set ANSEP student for success in science, *KTVB The Voice of Alaska*, February 10, 2020. <https://www.ktva.com/story/41683177/internships-set-ansep-students-up-for-success-in-science>

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Mason, James (2020). Kugzruk Kommons is a step toward better housing in Nome, *The Nome Nugget*, February 7, 2020.
<http://www.nomenugget.net/news/kugzruk-kommons-step-toward-better-housing-nome>

NASA Astronaut and Physician, Dr. Mae Jemison encourages ANSEP students to reach for the stars, *KTUU-TV*, Feb 2, 2020. <https://www.ktuu.com/content/news/NASA-Astronaut-and-Physician-Dr-Mae-Jemison-encourages-ANSEP-students-to-reach-for-the-stars-567511271.html>

Gross, Scott (2020). Leading students down path to success, ANSEP celebrates 25 years, *KTVA The Voice of Alaska*, February 1, 2020. <https://www.ktva.com/story/41640665/leading-students-down-path-to-success-ansep-celebrates-25-years>

Brehmer, Elwood (2020). Schroeder pitches ANSEP model to reform education, *Alaska Journal of Commerce*, January 8, 2020.
<https://www.alaskajournal.com/2020-01-08/schroeder-pitches-ansep-model-reform-education>

Bailey, Caitlin (2019). Coexisting with polar bears, *Blog, Defenders of Wildlife*, December 16, 2019.
<https://defenders.org/blog/2019/12/coexisting-polar-bears>

Weissman, Sara (2019). Sloan Indigenous Graduate Partnership supports Native students in STEM, *Diverse: Issue in Higher Education*, December 8, 2019.
<https://diverseeducation.com/article/161687/>

Yukon-Kuskokwim students participate in ANSEP, *KTBY – Your Alaska Link*, December 6, 2019.
http://www.youralaskalink.com/news/yukon-kuskokwim-students-participate-in-ansep/video_25a8c70c-1e8e-5af9-ab35-57339799d262.html

Bradner, Tim (2019). UA digging out from its near destruction, *Anchorage Press*, December 4, 2019.
https://www.anchoragepress.com/news/ua-digging-out-from-its-near-destruction/article_9890ed62-16c5-11ea-9a53-cf6286338ac7.html

Bradner, Tim (2019). UA president speaks about future of university system, *Mat-Su Valley Frontiersman*, December 2, 2019. https://www.frontiersman.com/news/ua-president-speaks-about-future-of-university-system/article_fe7e5130-1587-11ea-ae8a-0fe345b75588.html

Sullivan, Dan (2019). The importance of alliances, *Letter to the Editor, The Delta Discovery*, November 27, 2019. <https://deltadiscovery.com/the-importance-of-alliances/>

Oliver, Shady Grove (2019). O'Brien moves on after years with the school district, *The Arctic Sounder*, November 22, 2019.
http://www.thearcticsounder.com/article/1947obrien_moves_on_after_years_with_school

Schroeder, Herb (2019). Alaska's students need a chance to get ahead academically without getting behind financially, *Opinion, Anchorage Daily News*, November 19, 2019.
<https://www.adn.com/opinions/2019/11/20/alaskas-students-need-a-chance-to-get-ahead-academically-without-getting-behind-financially/>

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Alaska middle school students attend ANSEP, *KTBY – Your Alaska Link*, November 17, 2019.
http://www.youralaskalink.com/news/alaska-middle-school-students-attend-ansep/video_67020651-bf9d-583e-9f7e-fe115642e0ac.html

Bradner, Tim (2019). Oilfield science greets a new generation on the North Slope, *Anchorage Daily News*, October 18, 2019. <https://www.adn.com/opinions/2019/10/18/oilfield-science-greets-a-new-generation-on-the-north-slope/>

Chomicz, Dorothy (2019). AFN honors 10 for contributions to Native community, *Fairbanks Daily News-Miner*, October 20, 2019. http://www.newsminer.com/news/local_news/afn-honors-for-contributions-to-native-community/article_3a333466-f30f-11e9-b0d4-1f8c6b5751e5.html

Year in Review Highlights: Lifetime achievement award, p. 8, Innovations in American Government, p. 9; Student Success: Barry Goldwater Scholarship, p. 11 and All-woman Rocketry team competes nationally, p. 14.; UAA Community: Planned gift of \$2 million for Ann and Tom Warren ANSEP Scholarship, p. 38 and Rasmuson Foundation support for ANSEP Acceleration Academy. Performance Measures: Excellence – Grant-funded research expenditures, p. 52, Total grant awards, p. 53, *UAA Performance '19*, October 2019. https://www.uaa.alaska.edu/academics/institutional-effectiveness/_documents/Performance%2019%20for%20Website%20Corrected.pdf

Johnsen, Jim (2019). Building a better Alaska one class at a time, *Community Perspective, Fairbanks Daily News-Miner*, October 4, 2019.
http://www.newsminer.com/opinion/community_perspectives/building-a-better-alaska-one-class-at-a-time/article_649c6ea0-e650-11e9-a39c-8bf2530de1f3.html

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Long, Kyrie (2019). UAA partnership program with federal agency seeks to diversify marine workforce, *Fairbanks Daily News-Miner*, September 19, 2019.
http://www.newsminer.com/news/local_news/uaa-partnership-program-with-federal-agency-seeks-to-diversify-marine/article_20eb8a6a-dab1-11e9-ac92-9be4f9b0df3a.html

Mackenzie, Kathryn (2019). Getting to know Alaska's Regional ANCs, *Alaska Business Monthly*, September 17, 2019.
<https://www.akbizmag.com/industry/alaska-native/getting-to-know-alaskas-regional-ancs/>

Herr, Jason (2019). Remembering BP's legacy of philanthropy with UAA, *The Northern Light*, September 9, 2019.
<https://www.thenorthernlight.org/remembering-bps-legacy-of-philanthropy-with-uaa/>

Stinson, Sonya (2019). Moving the needle: STEM programs for Native American students, *Diversity in Action*, Fall 2019, pp. 36-40. <https://mydigitalpublication.com/publication/?m=46265&i=625422&p=40>

Maxwell, Lauren (2019). Nonprofits worry how BP's departure will affect their budget, *KTVA The Voice of Alaska*, August 28, 2019.
<https://www.ktva.com/story/40976743/nonprofits-worry-how-bps-departure-will-affect-their-budget>

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Hanlon, Tegan (2019). U.S. Education Secretary Betsy DeVos talks school choice during Alaska visit, *Anchorage Daily News*, August 26, 2019.
<https://www.adn.com/alaska-news/education/2019/08/27/us-education-secretary-betsy-devos-talks-school-choice-during-alaska-visit/>

Spangler, Elizabeth (2019). The Alaska Native Science and Engineering Program, Special Issue: Diversity and Inclusion, *Fisheries Magazine*, 44(8), 367-368. August 22, 2019.

Helping Alaska's students succeed: Local learning opportunities ensure their success, *Blog*, Denali Federal Credit Union, August 19, 2019.
<https://www.denalifcu.org/blog/blog-post/memberresources/2019/08/19/helping-alaskas-students-succeed>

Alaska Native Science and Engineering Program, *National Fish and Wildlife Foundation (NFWF)*, August 6, 2019. <https://www.youtube.com/watch?v=BomODno4gBw>

Anchorage students learn to build earthquake proof structures, *KTBY – Your Alaska Link*, July 23, 2019.
http://www.youralaskalink.com/news/anchorage-students-learn-to-build-earthquake-proof-structures/article_c805bac8-adbb-11e9-91ba-db1468ffbfed.html

Kelly, Devin (2019). Using fungi, UAA team develops biodegradable insulation for shipping Alaska seafood, *Anchorage Daily News*, July 14, 2019.
<https://www.adn.com/business-economy/2019/07/14/using-fungi-uaa-team-develops-biodegradable-insulation-for-shipping-alaska-seafood/>

ANSEP student Tatiana Korthuis recording data on USGS research vessel, *Media*, U.S. Geological Survey (USGS), July 13, 2019.
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STEM education proposals proliferate in Congress, *American Institute of Physics*, July 8, 2019.
<https://www.aip.org/fyi/fyi-this-week/week-july-8-2019>

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Ivanof III, Paul (2019). Legislature should override vetoes, *Letters to the Editor, Anchorage Daily News*, July 9, 2019.
<https://www.adn.com/opinions/letters/2019/07/09/letter-legislature-should-override-vetoes/>

Murkowski, Schatz Introduce Bipartisan Legislation to Expand Impact of the ANSEP Program, *Press Release*, United States Senator Lisa Murkowski, July 2, 2019.
<https://www.murkowski.senate.gov/press/release/murkowski-schatz-introduce-bipartisan-legislation-to-expand-impact-of-the-ansep-program>

BP, University of Alaska Anchorage partnership creates opportunities for future engineers in Alaska, *Alaska Business Monthly*, June 26, 2019. <https://www.akbizmag.com/industry/education/bp-uaa-partnership-seeks-to-create-opportunities-for-future-engineers-in-alaska/>

Stantec helps promote success and leaderships with ANSEP in Alaska, *Careers – Indigenous Relations*, Stantec, June 19, 2019. <https://careers.stantec.com/indigenous-relations/stantec-helps-promote-success-and-leadership-with-ansep-in-alaska>

CIA Visits the Alaska Native Science and Engineering Program, *News and Information, 2019 Blog*, Central Intelligence Agency, June 12, 2019. <https://www.cia.gov/news-information/blog/2019/cia-visits-the-alaska-native-science-and-engineering-program.html>

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All-woman rocketry team breaking more than just the sound barrier at NASA competition, *Green & Gold News*, University of Alaska Anchorage, May 15, 2019.
http://greenandgold.uaa.alaska.edu/blog/73472/women-rocketry-team-breaking-just-sound-barrier-nasa-competition/?utm_source=seawolfweekly&utm_medium=email&utm_content=SW_20190515&utm_campaign=Green+and+Gold+News

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Alaska Native Science and Engineering Program, *National Fish and Wildlife Foundation (NFWF)*, April 25, 2019. <https://www.nfwf.org/whoweare/mediacenter/video/Pages/alaska-native-science-and-engineering-program.aspx>

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<https://www.colorado.edu/cuengineering/2019/04/23/becoming-ilisaurri>

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<https://yp.scmp.com/news/science/article/112689/teens-use-stem-combat-ocean-pollution-and-microplastics-hackathon-hk>

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