

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

Education

Ph.D. Civil Engineering, 1991, University of Colorado, Boulder, Colorado
Thesis Title: *DYCAM 1.0: Dynamic Construction Activity Model, A Decision Support Tool for Construction Planning*; Advisor: James Diekmann, Ph.D.

M.S. Civil Engineering, 1988, Oregon State University, Corvallis, Oregon

B.S. Mechanical Engineering, 1981, University of Alaska Fairbanks, Fairbanks, Alaska

Recognitions and Honors

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.

Reginald H. Jones Distinguished Service Award, National Action Council for Minorities in Engineering, Inc. (NACME), created to recognize those extraordinary individuals whose efforts and accomplishments have resulted in increased minority participation in the nation's engineering workforce, New York City, September 29, 2009.

2020 Education Award, Association of Village Council Presidents (AVCP), presented at its 56th Annual Convention for improving educational opportunities for Alaska Natives from the AVCP region during the pandemic, September 23, 2020.

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.

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.

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.

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.

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

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Recognitions and Honors (cont.)

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

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

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

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 & Engineering Program: Report to the Partners, University of Alaska Anchorage, with Gary Adams, February 16, 2010.

2008 American Architecture Award, The Chicago Athenaeum Museum of Architecture and Design together with The European Centre for Architecture Art Design and Urban Studies. The UAA ANSEP Building was one of 66 structures selected in 2008, out of 1,000 submittals.
https://www.chi-athenaeum.org/assets/pdf_archives/amerarc/archive-2008-American-Arch-awards.pdf

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.

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

Academic Experience

1995 to Present Vice Provost (2010 to Present), Executive Director and Founder (1995 to Present), *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.)

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| 2005 to Present | Professor, <i>Civil Engineering, College of Engineering, UAA.</i> |
| 2005 to 2010 | Associate Dean, <i>School of Engineering, UAA.</i> |
| 2021 to 2025 | Senior Administrator, <i>NPS Supporting the ANSEP 20-25, U.S. National Park Service</i> award. |
| 2021 to Present | Senior Administrator, <i>ANSEP RAP with USFS, U.S. Forest Service</i> award. |
| 2020 to 2024 | Senior Administrator, <i>NOAA Support of ANSEP FY20-24, National Oceanic and Atmospheric Administration (NOAA)</i> award. |
| 2017 to 2023 | Co-Principal Investigator and Executive Director, <i>National Science Foundation (NSF) Louis Stokes Alliances for Minority Participation (LSAMP) Alaska Alliance LSAMP</i> . 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. |
| 2017 to 2022 | Senior Administrator, <i>BLM support for ANSEP, U.S. Bureau of Land Management, U.S. Department of the Interior</i> award. |
| 2018 to Present | Senior Administrator, <i>USGS support for ANSEP, U.S. Geological Survey</i> award. |
| 2017 to Present | Principal Investigator, <i>Collaborative Research: A synthesis of EarthScope educational resources integrated into the Alaska Native Geoscience Learning Experience, National Science Foundation (NSF)</i> award. |
| 2017 to Present | Senior Administrator, <i>ANSEP Programmatic Support, Bureau of Safety and Environmental Enforcement (BSEE)</i> award. |
| 2016 to Present | Senior Administrator, <i>USFWS support for ANSEP, U.S. Fish and Wildlife Service, U.S. Department of the Interior</i> award. |
| 2008 to Present | Director, ANSEP Graduate Success Component for University of Alaska
The ANSEP <i>Graduate Success</i> component was created beginning in Fall 2008, with Alfred P. Sloan Indigenous Graduate Partnership (SIGP) funding. UAA and UAF ANSEP students earned fellowships and tuition support for approved STEM master's and PhD degrees. |
| 2017 to 2020 | Principal Investigator, <i>Broadening Participation: An Alaska Native Science & Engineering Program Dissemination Conference, National Science Foundation (NSF) Division of Engineering Education and Centers (EEC)</i> award. |
| 2015 to 2020 | Senior Administrator, <i>Supporting the ANSEP, National Park Service</i> award. |

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Academic Experience (cont.)

- 2014 to 2020 Senior Administrator, *Alaska Native Science & Engineering Program (ANSEP) Support, National Oceanic and Atmospheric Administration (NOAA)* award.
- 2012 to 2018 Senior Administrator, *USGS support for ANSEP, United States Geological Survey* award.
- 2012 to 2017 Principal Investigator and Executive Director, *National Science Foundation (NSF) Louis Stokes Alliances for Minority Participation (LSAMP) Alaska Alliance Senior Level, at University of Alaska Anchorage (UAA)* award. 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 award 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.
- 2014 to 2016 Senior Administrator, *Supporting the ANSEP, National Park Service* award.
- 2010 to 2016 Senior Administrator, *Alaska Native Science & Engineering Program (ANSEP), Alaska, Bureau of Land Management (BLM), U.S. Department of the Interior* award.
- 2008 to 2015 Senior Administrator, *Alaska Native Science & Engineering Program (ANSEP), United States Forest Service (USFS)* award.
- 2008 to 2014 Senior Administrator, *Alaska Native Science & Engineering Program (ANSEP) Summer Bridge, National Oceanic and Atmospheric Administration (NOAA)* award.
- 2008 to 2013 Principal Investigator and Project Director, *National Science Foundation (NSF) Partnerships for Innovation (PFI) Program, Building on Success: Indigenous Alliance Expansion, at UAA* award.
- 2001 to 2013 Executive Director, *Indigenous Alliance for Engineering & Science Education at UAA* (formerly named the Pacific Alliance) award. Led the development of the Indigenous Alliance as an expansion of the previous work with the Pacific Alliance. The Alliance included 12 higher education institutions in 9 states: University of Alaska Anchorage, University of Alaska Fairbanks, Kuskokwim Community College, University of Hawai'i Manoa, Kapi'olani Community College, University of Colorado Boulder, University of Washington, University of Idaho, University of North Dakota, South Dakota School of Mines and Technology, University of Montana, University of Arizona.

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Academic Experience (cont.)

- 2006 to 2012 Principal Investigator and Executive Director, *National Science Foundation (NSF) Louis Stokes Alliances for Minority Participation (LSAMP) Pacific Alliance Phase II* award. Led the NSF LSAMP Pacific Alliance by mentoring development of UAA ANSEP recruitment, retention and placement strategies at the University of Alaska Fairbanks and the University of Washington (2006-2009). Responsibilities included 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* award. Fund for the Improvement of Postsecondary Education (FIPSE) Programs, Congressionally-Directed Projects for Access, Retention, Completion.
- 2006 to 2011 Senior Administrator, *Alaska Native Science & Engineering Program ANSEP Facility: Longhouse, U.S. Department of Commerce, Economic Development Administration* award.
- 2008 to 2010 Project Director, *Alaska Native Science & Engineering Program and STEM, UAA*, award. Fund for the Improvement of Postsecondary Education (FIPSE) Programs, Congressionally-Directed Projects for Access, Retention, and Completion.
- 2003 to 2006 Principal Investigator and Project Director, *National Science Foundation (NSF) TALPA II, Partnerships for Innovation (PFI) Program, at UAA* award.
- 2001 to 2006 Principal Investigator and Executive Director, *National Science Foundation (NSF) Louis Stokes Alliances for Minority Participation (LSAMP) Pacific Alliance, at UAA* award, 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.
- 2001 to 2005 Principal Investigator and Project Director, *National Science Foundation (NSF) TALPA, Partnerships for Innovation (PFI) Program, at UAA* award.
- 1993 to 2005 Associate Professor, *Civil Engineering, School of Engineering, UAA*.
- 1992 to 1994 Principal Investigator, *National Science Foundation (NSF), Division of Undergraduate Education, Engineering Design Graphics Modernization and Collaborative Learning* award.
- 1991 to 1993 Visiting Assistant Professor, *School of Engineering, UAA*.
- 1990 to 1991 Adjunct Faculty and Research Associate, *College of Engineering & Applied Science, University of Colorado Boulder*.
- 1989 Term Faculty, *Civil Engineering, School of Engineering, UAA*.

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Industrial Experience

Construction Industry (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.

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.

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University of Alaska Anchorage – Engineering (cont.)

Master's Thesis Supervision

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

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

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

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

Graduate Committees – University of Alaska Anchorage and 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.

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.

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

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 Published 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 (ASEE) Annual Conference and Exposition, New Orleans, Louisiana, June 28, 2016. <https://www.asee.org/public/conferences/64/papers/15288/view>

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 (ASEE) Annual Conference and Exposition, Atlanta, Georgia, June 24, 2013. <https://www.asee.org/public/conferences/20/papers/7908/view>

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 American Society of Civil Engineers (ASCE) 8th International Conference on Cold Regions, Fairbanks, Alaska, August 1996.

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.

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

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>

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>

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

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

2021 *ANSEP RAP with USFS, United States Forest Service (USFS), \$75,000, UAA Grant # G-14077.*

2021 to 2025 *NPS Supporting ANSEP 20-25, U.S. National Park Service, \$75,788, UAA Grant # G-13633.*

2020 to 2024 *NOAA Support of ANSEP FY20-24, National Oceanic and Atmospheric Administration (NOAA), \$250,000, UAA Grant # G-13023.*

2017 to 2023 *National Science Foundation (NSF) Louis Stokes Alliances for Minority Participation (LSAMP) Alaska Alliance LSAMP, Sam Gingerich PI, Herb Schroeder, Co-PI with Brian Rasely, Matthew Calhoun, Michele Yatchmeneff, \$3,000,000 (\$600,000 per year for five years), NSF Award # 1712794, UAA Grant # G-11478.*

2017 to 2022 *BLM support for ANSEP, Bureau of Land Management, U.S. Department of the Interior, \$250,000 over 5 years, UAA Grant # G-10898.*

2018 to Present *USGS support for ANSEP, United States Geological Survey, \$250,000, Funding Opportunity # F16AS00379, UAA Grant # G-11181.*

2017 to Present *Bureau of Safety and Environmental Enforcement (BSEE), ANSEP Programmatic Support, \$250,000, UAA Grant # G-10939.*

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Federal Awards and Grants (cont.)

- 2017 to Present *National Science Foundation (NSF) Collaborative Research: A synthesis of EarthScope educational resources integrated into the Alaska Native Geoscience Learning Experience*, \$58,092, NSF Award # 1736112, UAA Grant # G-11719.
- 2016 to Present *USFWS support for ANSEP, U.S. Fish and Wildlife Service, U.S. Department of the Interior*, \$382,985, UAA Grant # G-11066.
- 2017 to 2020 *Broadening Participation: An Alaska Native Science & Engineering Program Dissemination Conference, National Science Foundation (NSF) Division of Engineering Education and Centers (EEC)*, with Co-PIs, Matthew Calhoun, Michele Yatchmeneff, \$200,000, NSF Award # 1737772, UAA Grant # G-11737.
- 2015 to 2020 *Supporting the ANSEP, National Park Service*, \$105,000, UAA Grant # G-9573.
- 2014 to 2020 *Alaska Native Science & Engineering Program (ANSEP) Support, National Oceanic and Atmospheric Administration (NOAA)*, \$250,000, UAA Grant # G-9607.
- 2012 to 2018 *USGS support for ANSEP, United States Geological Survey*, \$212,500, UAA Grant # G-8203.
- 2012 to 2017 *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 *Supporting the ANSEP, National Park Service*, \$43,000, UAA Grant # G-7720.
- 2010 to 2016 *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 *Alaska Native Science & Engineering Program (ANSEP), United States Forest Service (USFS)*, \$50,000 annually, Challenge Cost Share Agreement # 10CS-11100100-020.
- 2008 to 2014 *Alaska Native Science & Engineering Program (ANSEP) Summer Bridge, National Oceanic and Atmospheric Administration (NOAA)*, \$250,947, UAA Grant # G-5263.
- 2008 to 2013 *Building on Success: Indigenous Alliance Expansion, National Science Foundation (NSF) Partnerships for Innovation (PFI) Program*, University of Alaska Anchorage, \$720,000, NSF Award # 0836986.
- 2006 to 2012 *National Science Foundation (NSF) Louis Stokes Alliances for Minority Participation (LSAMP) Pacific Alliance Phase II*, with Co-PI, Elaine Maimon, \$1,776,161, NSF Award # 0602742.
- 2009 to 2011 *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.

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University of Alaska Anchorage
ANSEP Building, Anchorage, Alaska 99508
(907) 786-1860 hpschroeder@alaska.edu

Federal Awards and Grants (cont.)

- 2006 to 2011 *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 *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 *TALPA II: Technology Applications and Learning for Professional Achievement, National Science Foundation (NSF) Partnerships for Innovation (PFI) Program, with Co-PI, Robert Lang, \$600,000, NSF Award # 0332690.*
- 2001 to 2006 *National Science Foundation (NSF) Louis Stokes Alliances for Minority Participation (LSAMP) Pacific Alliance, \$2,078,752, NSF Award # 0114747.*
- 2001 to 2005 *TALPA, National Science Foundation (NSF) Partnerships for Innovation (PFI) Program, with Co-PI, E. Lee Gorsuch, \$599,832, NSF Award # 0125272.*
- 1992 to 1994 *Engineering Design Graphics Modernization and Collaborative Learning, National Science Foundation (NSF) Division of Undergraduate Education, with Co-PIs, Jerry Wekezer, T. Bart Quimby, \$97,149, NSF 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

- 2021 *2021 Fairbanks NSB School District FNSBSD ANSEP Components, Anchorage, Alaska, \$60,000, UAA Grant # G-14070.*
- 2021 *2021 Northwest Arctic Borough School District NWABSD Virtual Computer Build & STEM Connect, \$150,000, UAA Grant # 13968.*
- 2020 to Present *2020 Bering Strait School District (BSSD) Middle School Academy, \$252,000, UAA Grant # G-13251.*
- 2020 to Present *2020 Matanuska-Susitna Borough School District (MSBSD) Middle School Academy, Anchorage, Alaska, \$174,000, UAA Grant # G-13253.*
- 2020 to Present *2020 Nome Public Schools Middle School Academy, \$40,000, UAA Grant # G-13285.*
- 2020 *2020 Kenai Peninsula Borough School District (KPBSD) Middle School Academy, Anchorage Alaska, \$54,000 UAA Grant # G-13154.*
- 2020 *2020 Lower Kuskokwim Borough School District (LKSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-13174.*

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University of Alaska Anchorage
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(907) 786-1860 hpschroeder@alaska.edu

State Grants (cont.)

- 2020 *2020 Lower Yukon Borough School District (LYSD) Middle School Academy, Anchorage, Alaska, \$21,000, UAA Grant # G-13088.*
- 2020 *2019 Yupiit School District Middle School Academy, \$45,000, UAA Grant # G-13090.*
- 2019 to 2020 *2019 Dillingham City School District Middle School Academy, Anchorage, Alaska, \$36,000, UAA Grant # G-12618.*
- 2019 to 2020 *2019 Mat-Su Borough School District (MSBSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-12491.*
- 2019 to 2020 *2019 Northwest Arctic Borough School District (NWABSD) STEM Ready Academy, Anchorage Alaska, \$42,000, UAA Grant # G-12730.*
- 2019 to 2020 *2019 Northwest Arctic Borough School District (NWABSD) Middle School Academy, Anchorage Alaska, \$160,000, UAA Grant # G-12692.*
- 2019 to 2020 *2019 Southwest Region School District Middle School Academy, Anchorage, Alaska, \$9,000, UAA Grant # G-12640.*
- 2019 to 2020 *2019 Yakutat School District Middle School Academy, Anchorage, Alaska, \$18,000, UAA Grant # G-12667.*
- 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.*
- 2018 to 2019 *2018 Anchorage School District (ASD) Middle School Academy, Anchorage Alaska, \$160,000 UAA Grant # G-11832.*
- 2018 to 2019 *2018 Bering Strait School District (BSSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-11946.*
- 2018 to 2019 *2018 Kenai Peninsula Borough School District (KPBSD) Middle School Academy, Anchorage Alaska, \$35,200 UAA Grant # G-11947.*

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University of Alaska Anchorage
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(907) 786-1860 hpschroeder@alaska.edu

State Grants (cont.)

- 2018 to 2019 *2018 Lower Kuskokwim Borough School District (LKSD) Middle School Academy, Anchorage, Alaska, \$126,000, UAA Grant # G-11903.*
- 2018 to 2019 *2018 Lower Yukon Borough School District (LYSD) Middle School Academy, Anchorage, Alaska, \$69,000, UAA Grant # G-11826.*
- 2018 to 2019 *2018 Mat-Su Borough School District (MSBSD) Middle School Academy, Anchorage, Alaska, \$160,000, UAA Grant # G-11856.*
- 2018 to 2019 *2018 Northwest Arctic Borough School District (NWABSD) STEM Ready Academy, Anchorage Alaska, \$52,000, UAA Grant # G-12100.*
- 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.*
- 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.*
- 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.*

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University of Alaska Anchorage
ANSEP Building, Anchorage, Alaska 99508
(907) 786-1860 hpschroeder@alaska.edu

State Grants (cont.)

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

Foundation and other Private Grants and Donations

- 2018 to 2028 Rasmuson Foundation, *ANSEP Support 2018-28*, \$5,000,000, dispersed as \$500,000 annual grants, UAA Grant # G-12267.
- 2021 to 2024 Alaska Airlines Travel Grant, *ANSEP Middle School*, \$1,000,000 over three years, (in-kind air travel).
- 2021 Alyeska Pipeline Service Company, *ANSEP programmatic support*, \$427,876.

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University of Alaska Anchorage
ANSEP Building, Anchorage, Alaska 99508
(907) 786-1860 hpschroeder@alaska.edu

Foundation and other Private Grants and Donations (cont.)

- 2021 ATS Alaska, Inc., *ANSEP programmatic support*, \$1,000.

- 2021 Central Intelligence Agency, *ANSEP programmatic support*, \$32,000.

- 2021 Charities Aid Foundation of America, *ANSEP programmatic support*, \$2,500.

- 2021 ConocoPhillips, *ANSEP programmatic support*, \$65,000.

- 2021 ANSEP alumni and other individual donations, *ANSEP program support*, \$95,635.

- 2021 Donlin Gold, *ANSEP programmatic support*, \$10,000

- 2021 ExxonMobil Corporation, *ANSEP programmatic support*, \$75,000.

- 2021 Fermi Research Alliance, LLC, *ANSEP programmatic support*, \$10,000.

- 2021 GCI Communications, *ANSEP programmatic support*, \$2,500.

- 2021 Hawk Consultants, Inc., *ANSEP programmatic support*, \$2,500.

- 2021 Oil Search Alaska, *ANSEP programmatic support*, \$40,000.

- 2021 RuralCap Foundation, *ANSEP Incoming Freshman (Summer) Event*, \$50,000.

- 2021 Stantec Consulting Services, Inc., *ANSEP programmatic support*, \$5,000.

- 2021 Williwaw Environmental Consulting, *ANSEP programmatic support*, \$2,000.

- 2020 to Present Alaska Community Foundation, *2020 Bristol Bay Middle School Academy*, \$50,000, UAA Grant # G-13374.

- 2020 to Present Alaska Native Tribal Health Consortium, *ANTHC Support for ANSEP*, \$60,000, UAA Grant # G-12829.

- 2020 to Present Alfred P. Sloan Indigenous Graduate Partnership (SIGP), *ANSEP Sloan Foundation Support*, \$105,280, UAA Grant # G-13599.

- 2020 to Present National Action Council for Minorities in Engineering (NACME), *NACME Block Grant for ANSEP*, \$120,000, UAA Grant # G-13553.

- 2020 to Present National Fish and Wildlife Foundation, *NFWF 2020 Alaska Fish and Wildlife*, \$9,266, UAA Grant # G-13640.

- 2020 to Present National Fish and Wildlife Foundation, *NFWF/USFWS Eider & Polar Bear Project*, \$39,902, UAA Grant # G-13617.

- 2020 to Present Sealaska Corporation, *Sealaska Support of ANSEP*, \$10,000, UAA Grant # G-13261.

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University of Alaska Anchorage
ANSEP Building, Anchorage, Alaska 99508
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Foundation and other Private Grants and Donations (cont.)

2020 to Present Yukon River Inter-Tribal Watershed, *YRITWC Support of ANSEP*, \$5,000, UAA Grant # G-13318.

2019 to Present Association of Village Council Presidents (AVCP), *ANSEP/AVCP Student Engagement*, \$3,00,000, UAA Grant # G-12607.

2019 to Present National Fish and Wildlife Foundation, *NFWF 2019 Alaska Fish and Wildlife*, \$168,000, UAA Grant # G-12746.

2018 to Present Arctic Research Consortium of the U.S., *ARCUS Support of ANSEP*, \$11,500, UAA Grant # G-12056.

2018 to Present Bristol Bay Native Association, *BBNA Support of ANSEP*, \$24,000, UAA Grant # G-11824.

2018 to Present ECMC Foundation, *ECMC Support for ANSEP*, \$600,000, UAA Grant # G-11893; 2020 ECMC COVID-19 Rapid Response for ANSEP, \$10,000, UAA Grant # G-13382; 2020 ECMC Donation, 2020, \$1,600.

2018 to Present *Mystic Aquarium Support of ANSEP*, \$5,000, UAA Grant # G-12067.

2018 to Present Orutsararmiut Native Council, *ONC Support of ANSEP*, \$17,000, UAA Grant # G-12321.

2017 to Present Alaska Native Tribal Health Consortium (ANTHC), *ANTHC Support of ANSEP FY17-21*, \$29,000, UAA Grant # G-11196.

2016 to Present Defenders of Wildlife, *Defenders Support of ANSEP*, \$104,400, UAA Grant # G-10708.

2016 to Present National Fish and Wildlife Foundation, *NFWF ANSEP/USFS Support*, \$348,000, UAA Grant # G-10507.

2012 to Present National Action Council for Minorities in Engineering (NACME), *NACME Scholarship - ANSEP*, \$240,000, UAA Grant # G-8558.

2020 ANSEP alumni and other individual donors, *ANSEP programmatic support*, \$60,700.

2020 Association of ANCSA Regional Corporation Presidents/CEOs, *ANSEP programmatic support*, \$5000.

2020 BP Exploration, Inc., *ANSEP programmatic support*, \$100,000.

2020 Bristol Bay Native Corporation Education Foundation, *ANSEP programmatic support*, \$15,000.

2020 Charities Aid Foundation of America, *ANSEP programmatic support*, \$1,000.

2020 ConocoPhillips, *ANSEP programmatic support*, \$172,500.

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

Foundation and other Private Grants and Donations (cont.)

- 2020 ECMC Foundation, *ANSEP programmatic support*, \$1,600.
- 2020 ExxonMobil Corporation, *ANSEP programmatic support*, \$150,000.
- 2020 Fermi Research Alliance, LLC, *ANSEP programmatic support*, \$10,000.
- 2020 Harvard Kennedy School, *Harvard Ash Dissemination*, \$5,000, UAA Grant # G-12767.
- 2020 Oil Search Alaska, *ANSEP programmatic support*, \$40,000.
- 2020 Peak Oilfield Services Co., LLC, *ANSEP programmatic support*, \$125,000.
- 2020 Sealaska Corp, *ANSEP programmatic support*, \$50,000.
- 2020 Stantec Consulting Services, Inc., *ANSEP programmatic support*, \$5,000.
- 2019 to 2020 Alaska Community Foundation, *2019 Bristol Bay Middle School Academy*, \$50,000, UAA Grant # G-12531.
- 2019 to 2020 National Fish and Wildlife Foundation, ANSEP and EEZ, \$20,000, UAA Grant # G-12626.
- 2017 to 2020 Alaska Airlines Travel Grant, *ANSEP Middle School*, \$1,000,000 over three years, (in-kind air travel).
- 2008 to 2020 Alfred P. Sloan Indigenous Graduate Partnership (SIGP), \$30,000 *graduate fellowships* paid directly to each eligible ANSEP graduate student; *Extending Success to Graduate School*, \$144,000, UAA Grant # G-7229; *American Indian Graduate Program*, \$240,000, UAA Grant # G-5167; *ANSEP Graduate Component Annual Support*, \$26,880, UAA Grant # G-9538; *ANSEP Sloan Foundation Support 17-20*, \$42,000, UAA Grant # G-11443.
- 2014 to 2020 Oak Foundation, *Science Development for ANSEP*, \$550,000, Grant # G-10167.
- 2019 Alyeska Pipeline Service Company, *ANSEP programmatic support*, \$175,000.
- 2019 ANSEP alumni and other individual donors, *ANSEP programmatic support*, \$59,400.
- 2019 AT&T, *ANSEP programmatic support*, \$17,000.
- 2019 BP Exploration, Inc., *ANSEP programmatic support*, \$100,000.
- 2019 ConocoPhillips, *ANSEP programmatic support*, \$84,250.
- 2019 Donlin Gold, *ANSEP programmatic support*, \$10,000.
- 2019 Huna Totem Corporation, *ANSEP programmatic support*, \$39,000.

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University of Alaska Anchorage
ANSEP Building, Anchorage, Alaska 99508
(907) 786-1860 hpschroeder@alaska.edu

Foundation and other Private Grants and Donations (cont.)

2019	Oil Search, LLC, <i>ANSEP programmatic support</i> , \$20,000.
2019	Peak Oilfield Services Co., LLC, <i>ANSEP programmatic support</i> , \$75,000.
2019	Princeton Area Community Foundation, <i>ANSEP programmatic support</i> , \$20,000.
2019	Saltchuk Resources, Inc., <i>ANSEP programmatic support</i> , \$5,000.
2019	Sealaska Corp, <i>ANSEP programmatic support</i> , \$71,000.
2019	Stantec Consulting Services, Inc., <i>ANSEP programmatic support</i> , \$5,000.
2019	Taiga Mining Company, Inc., <i>ANSEP programmatic support</i> , \$1,000.
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.
2018	Bristol Bay Native Corporation Education Foundation, <i>ANSEP programmatic support</i> , \$4,000.
2018	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$175,000.
2018	ANSEP alumni and other individual donors, <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.

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

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.
2017	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$220,000.
2017	ANSEP alumni and other individual donors, <i>ANSEP programmatic support</i> , \$42,096
2017	AT&T Services, Inc., <i>ANSEP programmatic support</i> , \$16,000
2017	BP Exploration, Inc., <i>ANSEP Summer Bridge</i> , \$72,000.
2017	ConocoPhillips, <i>ANSEP programmatic support</i> , \$25,000.
2017	Donlin Gold, <i>ANSEP programmatic support</i> , \$10,000.
2017	Doyon, Limited, <i>ANSEP programmatic support</i> , \$10,000.
2017	ExxonMobil Corporation, <i>ANSEP programmatic support</i> , \$470,000.
2017	Stantec Consulting Services, Inc., <i>ANSEP programmatic support</i> , \$5,000.
2017	Udelhoven Oilfield System Services, Inc., <i>ANSEP programmatic support</i> , \$50,000.
2015 to 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.
2016	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$305,000.
2016	ANSEP alumni and other individual donors, <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.

Herb Ilisaurri Schroeder, PhD
University of Alaska Anchorage
ANSEP Building, Anchorage, Alaska 99508
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Foundation and other Private Grants and Donations (cont.)

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 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.
2015	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$200,000.
2015	ANSEP alumni and other individual donors, <i>ANSEP programmatic support</i> , \$80,203.
2015	Arctic Slope Regional Corporation, <i>ANSEP programmatic support</i> , \$50,000.
2015	BP Exploration, Inc., <i>ANSEP Summer Bridge</i> , \$60,000.
2015	Calista Corporation, <i>ANSEP programmatic support</i> , \$10,000.
2015	Chevron North America Exploration, <i>ANSEP programmatic support</i> , \$5,000.
2015	ConocoPhillips, <i>ANSEP programmatic support</i> , \$60,000.
2015	Donlin Gold, <i>ANSEP programmatic support</i> , \$11,000.
2015	ExxonMobil Corporation, <i>ANSEP programmatic support</i> , \$480,250.
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.
2014	Alaska Airlines Foundation, <i>ANSEP programmatic support</i> , \$15,000..
2014	Alyeska Pipeline Service Company, <i>ANSEP programmatic support</i> , \$230,000
2014	Annual donations from individuals, <i>ANSEP programmatic support</i> , \$54,451.
2014	AT&T Foundation, <i>ANSEP programmatic support</i> , \$20,000.
2014	BP Exploration, Inc., <i>ANSEP Summer Bridge</i> , \$120,000.

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

Foundation and other Private Grants and Donations (cont.)

- 2014 Chevron North America Exploration, *ANSEP programmatic support*, \$5,000.
- 2014 ConocoPhillips, *ANSEP programmatic support*, \$37,500.
- 2014 Donlin Gold, *ANSEP programmatic support*, \$25,000.
- 2014 Doyon Limited, *ANSEP programmatic support*, \$5,000.
- 2014 ExxonMobil, *ANSEP programmatic support*, \$315,000.
- 2014 GCI Communications, *ANSEP programmatic support*, \$1,000.
- 2014 Hawk Consultants, Inc., *ANSEP programmatic support*, \$2,500.
- 2014 NANA WorleyParsons, *ANSEP programmatic support*, \$2,900.
- 2014 Rasmuson Foundation, *ANSEP Pre-College*, \$243,000.
- 2014 Shell Exploration & Production Company (Alaska), *ANSEP Summer Bridge*, \$98,000.
- 2014 Siemens Industry, *ANSEP programmatic support*, \$25,000.
- 2014 Udelhoven Oilfield System Services, Inc., *ANSEP programmatic support*, \$200,000.
- 2013 to 2014 Margaret A. Cargill Foundation, *ANSEP Middle School Academy*, \$160,000, UAA Grant # G-8571.
- 2012 to 2014 Rasmuson Foundation, *ANSEP programmatic support*, \$431,640, UAA Grant #G-8040.
- 2012 to 2014 Central Bering Sea Fisherman's Association, *ANSEP programmatic support*, \$50,000 annually.
- 2012 to 2014 Hearst Foundation, *ANSEP Acceleration Academy*, \$75,000, UAA Grant # G-8009.
- 2011 to 2014 Oak Foundation, *Training the next generation of Alaska Native Scientists: ANSEP Building Capacity in GIS*, \$400,000, UAA Grant # G-7299.
- 2009 to 2014 Pebble Limited Partnership, *ANSEP programmatic support*, \$350,000 (\$75,000 per year for five years).
- 2013 Alyeska Pipeline Service Company, *ANSEP programmatic support*, \$230,000.
- 2013 Alyeska Pipeline Service Company Employee Matches, *ANSEP programmatic support*, \$9,000.
- 2013 Annual donations from individuals, *ANSEP programmatic support*, \$15,743.
- 2013 Anonymous Donor, *ANSEP programmatic support*, \$10,000.

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

Foundation and other Private Grants and Donations (cont.)

- 2013 BP Foundation Employee Matches, *ANSEP programmatic support*, \$6,600.
- 2013 Chugach Alaska Corporation, *ANSEP programmatic support*, \$50,000.
- 2013 Donlin Gold, *ANSEP programmatic support*, \$40,000.
- 2013 ExxonMobil Corporation, *ANSEP programmatic support*, \$135,000.
- 2013 GCI Communications Corporation, *ANSEP programmatic support*, \$1,000.
- 2013 Hawk Consultants, Inc., *ANSEP programmatic support*, \$5,000.
- 2013 Kuskokwim Native Association, *ANSEP programmatic support*, \$5,000.
- 2013 National Fish and Wildlife Foundation, *ANSEP programmatic support*, \$100,000.
- 2013 Saltwater, Inc., *ANSEP programmatic support*, \$20,000.
- 2013 Shell Exploration & Production Company (Alaska), *ANSEP Summer Bridge*, \$110,000.
- 2013 Taku Engineering, LLC, *ANSEP programmatic support*, \$1,000.
- 2013 Udelhoven Oilfield System Services, Inc., *ANSEP programmatic support*, \$200,000.
- 2013 University of Michigan, *ANSEP programmatic support*, \$2,500.
- 2013 Verizon Foundation, *ANSEP Middle School Academy*, \$10,000.
- 2012 Alyeska Pipeline Service Company, \$35,000, and ExxonMobil Corporation, \$35,000, *2012 ANSEP Banquet*.
- 2012 ANSEP Alumni, *ANSEP scholarship support*, \$22,262.
- 2012 BP Exploration, Inc., *ANSEP Summer Bridge*, \$88,000.
- 2012 BP Fabric of America Fund, *ANSEP programmatic support*, \$750.
- 2012 ConocoPhillips Alaska, Inc., *ANSEP Summer Bridge*, \$44,500.
- 2012 ExxonMobil Corporation, *Support for 2012 Washington DC Congressional reception*, \$100,000.
- 2012 ExxonMobil Corporation, *ANSEP programmatic support*, \$134,500.
- 2012 Siemens Industry, *ANSEP programmatic support*, \$30,000.
- 2012 Udelhoven Oilfield Systems, *ANSEP programmatic support*, \$300,000.
- 2012 Wells Fargo, *ANSEP Pre-College*, \$25,000.

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

Foundation and other Private Grants and Donations (cont.)

- 2011 ExxonMobil Corporation and Alyeska Pipeline Service Company, *2011 ANSEP Banquet*, \$75,000.
- 2011 ExxonMobil Corporation, *ANSEP programmatic support*, \$300,000.
- 2011 ConocoPhillips, *ANSEP Summer Bridge*, \$23,000.
- 2011 BP Exploration, *ANSEP Summer Bridge*, \$97,000.
- 2005 to 2011 Wells Fargo, *ANSEP Pre-College*, annual award of \$50,000.
- 2007 to 2011 Rasmuson Fisheries Excellence Grant, *ANSEP subawardee* \$250,000 (\$50,000 per year for five years).
- 2010 ExxonMobil Corporation, *ANSEP programmatic support*, \$100,000.
- 2010 Alyeska Pipeline Service Company, *ANSEP programmatic support*, \$300,000.
- 2010 Microsoft, *ANSEP programmatic support*, \$1,000,000 in software.
- 2009 Alyeska Pipeline Service Company, *ANSEP programmatic support*, \$300,000.
- 2009 ConocoPhillips, *ANSEP Summer Bridge*, \$46,000.
- 2008 *Herbert P. Schroeder Endowed Chair of the Alaska Native Science & Engineering Program (ANSEP)*, \$4.4 million:
- 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
- 2008 Alyeska Pipeline Service Company, *ANSEP programmatic support*, \$200,000.
- 2007 Alfred P. Sloan Foundation, *Alaska Native Science & Engineering Program (ANSEP) Dissemination Conference*, \$40,000.
- 2007 Alyeska Pipeline Service Company, *ANSEP programmatic support*, \$200,000.
- 2007 BP Exploration, *ANSEP Summer Bridge*, \$70,000.
- 2007 ConocoPhillips, *ANSEP Summer Bridge*, \$23,000.

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University of Alaska Anchorage
ANSEP Building, Anchorage, Alaska 99508
(907) 786-1860 hpschroeder@alaska.edu

Foundation and other Private Grants and Donations (cont.)

- 2007 Ford Foundation, *Alaska Native Science & Engineering Program (ANSEP) Dissemination Conference*, \$100,000, Grant # 1075-0622.
- 2007 The Nathan Cummings Foundation, *Alaska Native Science & Engineering Program (ANSEP) Dissemination Conference*, with Elaine Maimon, \$25,000, Grant # 06-01262.
- 2007 TeckCominco, *ANSEP programmatic support*, \$150,000.
- 2006 Alyeska Pipeline Service Company, *ANSEP University Retention*, \$225,000.
- 2006 Siemens Building Technologies, *Pacific Alliance*, \$1,000,000.
- 2006 BP Exploration, *ANSEP Summer Bridge*, \$65,000.
- 2006 Microsoft Corporation, *ANSEP programmatic support*, \$50,000 cash and \$209,400 in Microsoft software and Microsoft Curriculum.
- 2005 Rasmuson Foundation, *ANSEP Summer Bridge/Computer Assembly*, \$25,000.
- 2005 BP Exploration, *ANSEP Summer Bridge*, \$80,000 cash, \$50,000 in-kind.
- 2005 ConocoPhillips, *ANSEP Summer Bridge*, \$17,000.
- 2005 NANA Development Inc., NANA/DOWL Engineering, and NANA Colt Engineering *ANSEP Summer Bridge*, \$46,000.
- 2005 Siemens Building Technologies, *Support for Pacific Alliance*, \$1,750,000.
- 2003 to 2005 Alyeska Pipeline Service Company, *ANSEP University Retention*, \$215,000 (2005); \$195,000 (2003 to 2004).
- 2004 First Alaskans Institute, *ANSEP Pre-College*, \$133,000.
- 2004 BP Exploration, *ANSEP Summer Bridge*, \$80,000 and \$50,000 in-kind.
- 2004 NANA Development Inc., NANA/DOWL Engineering, and NANA Colt Engineering *ANSEP Summer Bridge*, \$46,000 cash and \$20,000 in-kind.
- 2004 Bristol Environmental and Engineering Inc., *ANSEP Summer Bridge*, \$8,500.
- 2004 SKW Eskimos, Inc., *ANSEP Summer Bridge*, \$8,500.
- 2004 Alyeska Pipeline Service Company, *ANSEP Summer Bridge*, \$8,500.

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University of Alaska Anchorage
ANSEP Building, Anchorage, Alaska 99508
(907) 786-1860 hpschroeder@alaska.edu

Foundation and other Private Grants and Donations (cont.)

- 2003 to 2004 *The ANSEP Building* project involved construction of a 13,000 square foot facility on the University of Alaska Anchorage campus to house the activities of ANSEP and includes rapid reconfigurable space for instruction and related group meetings and student activities. Financial and in-kind donations were received from the following individuals and organizations:
- Alyeska Pipeline Service Company
 - Anonymous Donor
 - ASRC Energy Services
 - BP
 - CIRI
 - ConocoPhillips
 - Denali Commission
 - John Rubini and Suzanne LaPierre
 - JL Properties
 - Leonard and Tannie Hyde
 - Rasmuson Foundation
 - University of Alaska
 - U.S. Department of Commerce, Economic Development Administration
 - U.S. Department of Education
- 2003 BP Exploration, *Alliances of Learning and Vision for underrepresented Americans Summer Bridge*, \$65,000.
- 2003 NANA, *Alliances of Learning and Vision for underrepresented Americans Summer Bridge*, \$45,000.
- 2002 to 2003 Alyeska Pipeline Service Company, *ANSEP University Retention*, \$192,000.
- 2002 BP Exploration (Alaska), Inc., *Alliances of Learning and Vision for underrepresented Americans Summer Bridge*, \$80,000 cash and \$50,000 in kind.
- 2002 NANA Development, Inc., NANA/DOWL Engineering, and NANA Colt Engineering, *Alliances of Learning and Vision for underrepresented Americans Summer Bridge*, \$45,000 cash and \$20,000 in kind.
- 2001 to 2002 Alyeska Pipeline Service Company, *ANSEP University Retention*, \$185,000.
- 2001 BP Exploration (Alaska), Inc., *Alliances of Learning and Vision for underrepresented Americans Summer Bridge*, \$80,000 cash and \$50,000 in kind.
- 2001 NANA Development Inc., *NANA Alliances of Learning and Vision for underrepresented Americans Summer Bridge*, \$45,000 cash and \$20,000 in kind.
- 2000 to 2001 Alyeska Pipeline Service Company, *ANSEP University Retention*, \$95,000.
- 2000 BP Exploration (Alaska), Inc., *Alliances of Learning and Vision for underrepresented Americans Summer Bridge*, \$80,000 cash and \$65,000 in kind.

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Foundation and other Private Grants and Donations (cont.)

- 1999 to 2000 Alyeska Pipeline Service Company, *ANSEP University Retention*, \$95,000.
- 1999 Alaska Federation of Natives (AFN), *ANSEP program support*, \$40,000.
- 1999 BP Exploration (Alaska), Inc., *Alliances of Learning and Vision for underrepresented Americans Summer Bridge*, \$56,000 cash and \$50,000 in-kind.
- 1998 to 1999 Alyeska Pipeline Service Company, *ANSEP University Retention*, \$35,000.
- 1998 BP Exploration (Alaska), Inc., *Alliances of Learning and Vision for underrepresented Americans* to provide 8-week Summer Bridge program where incoming Alaska Native freshmen lived on campus, had math instruction, participated in group activities, and worked paid internships with industry partners, \$62,500 cash and \$62,500 in kind.
- 1997 to 1998 Alyeska Pipeline Service Company, *ANSEP University Retention*, \$39,000.
- 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

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>

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

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University of Alaska Anchorage
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External Review – Urban Institute

Full Research Report

Hamutal Bernstein, Carlos Martín, Lauren Eyster, Theresa Anderson, Stephanie Owen, and Ananda Martin-Caughey (2015). Evaluation of the Alaska Native Science & Engineering Program (ANSEP), *Research Report*, Urban Institute, January 2015. <http://files.eric.ed.gov/fulltext/ED559320.pdf>

National Science Foundation

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.

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.

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

Invited Lectures, Invited Expert Contributions, and Speaking Engagements

I have been invited to make expert contributions and hundreds of presentations for industrial organizations, universities, professional societies, colleges, high schools and philanthropic groups. What follows are recent and selected engagements. In-person activities were stopped mid-March 2020 and have not yet resumed.

25th Alaska Native Science & Engineering Program Celebration, speaker, Anchorage, Alaska, January 31, 2020.

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

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

Anchorage Chamber of Commerce “Make it Monday” forum, 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, 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, *Transforming education: Improving quality and cost*, speaker, Seattle Washington, November 22, 2019.
<https://www.nwccu.org/wp-content/uploads/2019/11/Final-NWCCU-2019-Annual-Conference-Program-and-Agenda-Beacon-Winners-Redacted.pdf>

National Science Foundation Distinguished Lecture Series, 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.

University of Colorado Boulder Alumni Awards 2018, *George Norlin Award for Lifetime Achievement Recipient*, award recipient/speaker, Boulder, Colorado, October 25, 2018.
https://www.youtube.com/watch?v=mNYCYWzt8_k

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

Fifth Annual Arctic Encounter Symposium, *The Future of Arctic Security: Energy, Environment, International, Economic, Technology & Building Sustainable Economic Security in the Arctic, Breakout Session 1*, panelist, Seattle, Washington, April 19, 2018.
<https://www.arcticencounter.com/aeseattle-2018>

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, Committee Meeting 3, *Panel 2: Innovative Programs and Strategies on MSI Campuses*, panelist, Washington, D.C., July 17, 2017.
https://sites.nationalacademies.org/cs/groups/pgasite/documents/webpage/pga_180572.pdf

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University of Alaska Anchorage
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Invited Lectures, Invited Expert Contributions, and Speaking Engagements (cont.)

Commonwealth North, *Growing Our Own: Ensuring a Great Alaskan Teacher in Every Classroom*, 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 (AFN) Board Meeting, speaker, Anchorage, Alaska, May 5, 2016.

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

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

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

Alaska Superintendent's Association Legislative Fly-In, speaker, 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*, 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.

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University of Alaska Anchorage
ANSEP Building, Anchorage, Alaska 99508
(907) 786-1860 hpschroeder@alaska.edu

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

Alaska Federation of Natives (AFN) Annual Conference, *Alaska Airlines ANSEP Middle School Travel Award Announcement*, speaker, 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.

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

Alyeska Pipeline Service Company, *Education Reform*, 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. http://www.akleg.gov/basis/get_documents.asp?session=28&docid=14487

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, *Commitment to Broadening Participation: Five LSAMP Leaders' Perspectives on Impact, a Panel Discussion*, panelist, and *Stop Paying for Failure and Transform Education*, keynote speaker, Indianapolis, Indiana, October 22, 2013.

Panel Presentation at 18:45 minutes: <https://www.youtube.com/watch?v=dfRN75wO6PM>

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

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. One of 50 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. <https://www.nap.edu/download/18847>

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ANSEP Building, Anchorage, Alaska 99508
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Invited Lectures, Invited Expert Contributions, and Speaking Engagements (cont.)

2013 Week of the Arctic, Institute of the North, *Workforce Development in Northern Regions*, panelist, Anchorage, Alaska, August 12, 2013.
https://issuu.com/morrisalaska/docs/inst.ofthenorth_16pages_aug2013

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.
<http://www.akleg.gov/basis/Meeting/Detail?Meeting=SEDC%202013-02-11%2008:00>

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

2011 National Action Council for Minorities in Engineering (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.
https://www.nacme.org/publications/research_briefs/NACMESymposiumReportFinal.pdf

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.

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

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

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

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

Society of American Military Engineers Regional Conference, presenter, Anchorage, Alaska, 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)*, speaker, Corvallis Oregon, November 2006.

Kuskokwim Community College, *Alaska Native Science & Engineering Program (ANSEP)*, speaker, 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)*, speaker, Anchorage, Alaska, 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 the 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. Citation for publication of the consensus study report: National Academy of Engineering. 2006. *Engineering Studies at Tribal Colleges and Universities*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/11582>

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, speaker, University of Alaska Anchorage, September 11-14, 2003.

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

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University of Alaska Anchorage
ANSEP Building, Anchorage, Alaska 99508
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Invited Lectures, Invited Expert Contributions, and Speaking Engagements (cont.)

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

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

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

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

University Service at the University of Alaska Anchorage

Alaska Native Task Force, member, 2013 to 2015.

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

School of Engineering, *Student Design Competition*, 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.

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

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

American Russian Center, *Project Management Training*, 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.

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ANSEP Building, Anchorage, Alaska 99508
(907) 786-1860 hpschroeder@alaska.edu

Professional Service and Professional Development

On April 16, 2021, I was invited by *Nature* Editor-in-Chief Magdalena Skipper, PhD, and *Scientific American* Editor-in-Chief Laura Helmuth, PhD, to accept a three-year appointment (April 2021 - April 2024) on a newly established U.S. Research Advisory Council (USRAC). USRAC's first meeting was June 15, 2021. The meeting topic was: Is research and the way it is communicated and shared at a pivotal moment? Lessons learned from the COVID-19 pandemic.

Kellogg Foundation Racial Equity 2021, peer grant reviewer, Spring 2021.

National Science Foundation, Office of Polar Programs, *Polar Sub-Committee on Diversity and Inclusion*, member, meeting weekly from November 13, 2020 to Present.
https://www.nsf.gov/geo/opp/opp_advisory/div_subcomm_members.jsp

Alaska SeaLife Center, *Board of Directors*, member, Alaska, 2018 to Present.
<https://www.alaskasealife.org/bod>

Alaska Wildlife Conservation Center (AWWC), *Board of Directors*, member, Alaska, 2017 to Present,
<https://www.alaskawildlife.org/staff-board/>.

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

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

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

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

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

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

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

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

Professional Service and Professional Development (cont.)

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

Alfred P. Sloan Foundation, *Sloan Indigenous Graduate Partnership (SIGP) 2014 Annual Meeting*, 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, member, Anchorage, Alaska, 2007 to 2012.

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

National Science Foundation, Directorate for Education and Human Resources, *Engineering, and Mathematics Talent Expansion Program (STEP) and Innovation Through Institutional Integration (I3)*, board member, Honolulu, Hawai'i, 2007 to 2010.

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

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

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

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

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

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

Professional Service and Professional Development (cont.)

Alaska Native Science & Engineering Program Dissemination Conference, funded by Ford Foundation, Alfred P. Sloan Foundation and The Nathan Cummings Foundation, conference chair, 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 Science Foundation, Directorate for Education and Human Resources, Division of Human Resource Development, *Presidential Awards for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM)*, review panel member, Washington, D.C., April 2002.

National Science Foundation, Directorate for Education and Human Resources, Division of Human Resource Development, *Tribal Colleges and Universities Program (TCUP)*, review panel member, 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), *Cold Region Concreting Section*, paper reviewer and moderator, Anchorage, Alaska, May 1997.

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 in Industry

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

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

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

Past Consulting Activities in Industry (cont.)

Conam Construction

Construction planning, proposal development, and cost estimating; software development

Management Systems Analysis of the Trans Alaska Pipeline System

Expert witness for the U.S. Congress

State of Alaska Department of Transportation and Public Facilities

Contractor/owner partnering facilitation

United States Air Force

Contractor/owner partnering facilitation

Peak Oilfield Service Company

Construction planning, cost estimating

Norcon, Inc.

Construction planning, cost estimating

McCrary and McCrary, Inc.

Expert witness

Global Environmental Systems, Inc.

Process analysis, cost estimating

Dryden & LaRue, Inc.

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

Alaska Utility Construction, Inc.

Construction planning, cost estimating

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), lifetime member.

American Society for Engineering Education (ASEE) current through May 31, 2022.

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

Recent and Selected Media and Publications about ANSEP

Evans, James (2021). *Slideshow: ANSEP summer barbecue with Chancellor Parnell*, News, University of Alaska Anchorage, June 16, 2021. <https://www.uaa.alaska.edu/news/archive/2021/06/slideshow-ansep-summer-barbecue.cshtml>

Dan Sullivan United States Senator for Alaska (2021). *Sen. Dan Sullivan (R-Alaska) honors Michael Martinez as “Alaskan of the Week”*, Press Release, June 11, 2021. <https://www.sullivan.senate.gov/newsroom/press-releases/sullivan-honors-michael-martinez-as-alaskan-of-the-week>

Springer Nature (2021). *Springer Nature, publisher of Nature and Scientific American, to build stronger understanding of US research needs with new US Research Advisory Council (USRAC)*, Press Release, June 10, 2021. <http://group.springernature.com.https.nlic.proxy.nbdlib.cn/de/group/media/press-releases/springer-nature-launch-us-research-advisory-council/19243402>

Jardin, Matt (2021). *UAA startup wins young entrepreneur award in Norway*, News, University of Alaska Anchorage, May 25, 2021. <https://www.uaa.alaska.edu/news/archive/2021/05/startup-wins-young-entrepreneur-award-norway.cshtml>

Native Science Report (2021). *STEM for All Video Showcase, Latest News, Trends in STEM Research and Teaching at Tribal and Native-Serving Colleges*, downloaded May 25, 2021 from: <https://nativesciencereport.org/>

Osborne, Ryan (2021). *Fairbanks engineering firm recognized by American Indian non-profit for efforts in exclusive employment*, *Webcenter, Fairbanks: KTVF, KXDF, KFXF*, May 20, 2021. <https://www.webcenterfairbanks.com/2021/05/21/fairbanks-engineering-firm-recognized-by-american-indian-non-profit-for-efforts-in-inclusive-employment/>

2021 STEM for All Video Showcase, COVID, Equity & Social Justice, *ANSEP innovation and success during COVID*, presenter, May 11-18, 2021. The 2021 National Science Foundation (NSF) STEM for All Video Showcase is an annual online event. Each year, it hosts video presentations from federally funded projects that aim to improve STEM (Science, Math, Engineering, and Mathematics) and computer science education. <https://stemforall2021.videohall.com/presentations/2262>

Cantwell kid researching airborne disease, *Copper River Record*, download on May 6, 2021 from: <https://www.copperriverrecord.net/tributaries/cantwell-kid-researching-airborne-disease>

Kim, Greg & Eurich, Johanna (2021). *Yup'ik college student, founder of Alaska biotech company, wins international young entrepreneur award*, *KTOO – Public Radio*, Juneau, Alaska, May 5, 2021. https://www.ktoo.org/2021/05/05/yupik-college-student-founder-of-alaska-biotech-company-wins-international-young-entrepreneur-award/?utm_content=bufferaab33&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer

Kim, Greg & Eurich, Johanna (2021). *Yup'ik college student wins international award*, *KYUK – Public Media for Alaska's Yukon-Kuskokwim Delta*, May 5, 2021. <https://www.kyuk.org/post/yup-ik-college-student-wins-international-award>

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

National Fish and Wildlife Foundation (NFWF) (2021). *NFWF announces \$589,000 in grants from the Alaska Fish and Wildlife Fund*, Press Release, Media Center, downloaded on May 5, 2021 from: <https://www.nfwf.org/media-center/press-releases/nfwf-announces-589000-grants-alaska-fish-and-wildlife-fund>

U.S. Department of the Interior (2021). *ANSEP Interns Patrice DeAsis and Jessica Mute, Alaska Diversity Partners*, Bureau of Land Management, downloaded on May 5, 2021 from: <https://www.blm.gov/careers/diversity-programs/partners/alaska>

ANCSA Regional Association (2021). *Economic Impacts: Educational Scholarships, Internships, and Careers*, downloaded on May 1, 2021 from: <https://ancsaregional.com/economic-impacts/>

American Indian Science and Engineering Society (AISES) (2021). *Cody Kapotak, Sequoyah Fellow – Profiles in Leadership*, downloaded on April 22, 2021 from: <https://www.aises.org/profiles-in-leadership>

Alaska Native Science & Engineering Program brings full-time Acceleration Academy component to Bethel this Fall, Science/Education, *Alaska Native News*, April 21, 2021. <https://alaska-native-news.com/alaska-native-science-engineering-program-brings-full-time-acceleration-academy-component-to-bethel-this-fall/55125/>

ANSEP brings full-time Acceleration Academy component to Bethel this fall, *The Delta Discovery*, April 21, 2021. <https://deltadiscovery.com/?s=ANSEP&orderby=relevance&order=DESC>

Good, Clay (2021). *Earth Day 2021, Students are our future*, Renewable Energy Alaska Project (REAP), April 20, 2021. <https://alaskarenewableenergy.org/earth-day-2021/>

Eurich, Johanna & Deaton, S. Grady (2021). ANSEP Academy arrives in Bethel, *KYUK – Public Media for Alaska's Yukon-Kuskokwim Delta*, April 16, 2021. <https://www.kyuk.org/post/ansep-academy-arrives-bethel>

Deaton, S. Grady (2021). ANSEP Acceleration Academy at BRHS, *KYUK – Public Media for Alaska's Yukon-Kuskokwim Delta*, April 15, 2021. <https://www.kyuk.org/post/ansep-acceleration-academy-brhs>

Brehmer, Elwood (2021). University of Alaska makes public pitch for help achieving \$200 million fundraising goal, *Anchorage Daily News*, April 1, 2021. <https://www.adn.com/alaska-news/education/2021/04/01/university-of-alaska-makes-public-pitch-for-help-achieving-200-million-fundraising-goal/>

Twindly Bridge Charter School (2021). *ANSEP Middle School Academy*, Twindly Times, Wasilla, Alaska. April/May Edition 2021. http://www.twindlybridge.us/uploads/1/3/1/0/13109610/twindly_times_aprilmay_final_edition_pdf.pdf

Brehmer, Elwood (2021). UA makes public pitch to hit \$200M fundraising goal, *Alaska Journal of Commerce*, March 31, 2021. <https://www.alaskajournal.com/2021-03-31/ua-makes-public-pitch-hit-200m-fundraising-goal>

Sealaska Corporation (2021). *Sealaska has audacious goal: 100% of our shareholders and descendants will graduate high school*, Education, March 25, 2021. <https://www.sealaska.com/community/education/>

Bristol Bay Borough School District (BBBSD) (2021). *ANSEP Career Explorations*, News, March 24, 2021. <https://www.bbbsd.net/article/426714>

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

National Fish and Wildlife Foundation (NFWF) (2021). *Alaska Native Science and Engineering Program, Alaska Fish and Wildlife Fund*, 2021 Grant Slate, March 2021, p. 3.
<https://www.nfwf.org/sites/default/files/2021-03/alaska-fish-wildlife-fund-2021-grant-slate.pdf>

Orr, Vanessa (2021). Engineering a career, *Alaska Business Monthly*, February 2021.
<https://digital.akbizmag.com/issue/february-2021/engineering-a-career/>

Lower Kuskokwim School District (LKSD) (2021). *ANSEP STEM Connect Spring 2021*, News, January 8, 2021. <https://www.lksd.org/cms/one.aspx?portalId=98512&pageId=24762167>

Atkin, Richard (2021) ANSEP to offer STEM learning to middle schools across Alaska this spring, *Webcenter Fairbanks*, January 7, 2021.
<https://www.webcenterfairbanks.com/2021/01/08/ansep-to-offer-stem-learning-to-middle-schools-across-alaska-this-spring/>

Alaska Native Science and Engineering Program Partnership (2021, p. 74). In Powers, E.M., and Williams, D.M., eds., 2021, U.S. Geological Survey—Department of the Interior Region 11, *Alaska —2020 annual science report: U.S. Geological Survey Open-File Report 2021-1010*, 80 p.
<https://pubs.usgs.gov/of/2021/1010/ofr20211010.pdf>

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<https://www.uaa.alaska.edu/news/archive/2020/12/acceleration-academy-students-rock-covid.cshtml>

National Fish and Wildlife Foundation (NFWF) (2020). *Alaska Native Science and Engineering Program*, Featured Facebook Video, December 19, 2020.
<https://www.facebook.com/95335385742/videos/1535765979941287>

Bradner, Tim (2020). Despite funding cuts, the University of Alaska is reinventing itself, *Anchorage Daily News*, December 19, 2020. <https://www.adn.com/opinions/2020/12/19/despite-funding-cuts-the-university-of-alaska-is-reinventing-itself/>

ANSEP making plans, accepting applications for Summer Bridge component, *The Delta Discovery*, December 16, 2020.
<https://deltadiscovery.com/ansep-making-plans-accepting-applications-for-summer-bridge-component/>

U.S. Department of Agriculture (2020). *Alaska Native Science & Engineering Program selected as Resource Assistants Program Partner*, Tribal Relations Blog, U.S. Forest Service, November 19, 2020.
<https://www.fs.fed.us/spf/tribalrelations/news/blog.shtml>

Jardin, Matt (2020). *UAA faculty receive a wide range of commendations in October*, News, University of Alaska Anchorage, October 27, 2020.
<https://www.uaa.alaska.edu/news/archive/2020/10/faculty-receive-commendations-in-october.cshtml>

The Association of Village Council Presidents (AVCP) (2020) *AVCP 2020 Education Award – Alaska Native Science & Engineering Program*, *QANEMCIT*, October 2020, p. 6.
<https://www.avcp.org/wp-content/uploads/2020/10/QNLact2020.pdf>

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

Louise Stokes Alliance for Minority Participation (LSAMP) (2020). Alaska Alliance Alaska, *LSAMP Magazine, Special Edition 2020*, September 19, 2020, pp. 315 and 318.
<https://lsmrce.org/documents/community/LSAMP-Trailblazers-Magazine-2020.pdf>

Fisk, Colleen (2020). *ANSEP students “Harness the Energy”: REAP and ANSEP partnership continues even during the pandemic*, Energy Education/Renewable Energy, REAP Renewable Energy Alaska Project, August 27, 2020. <https://alaskarenewableenergy.org/ansep-students-harness-the-energy/>

Nguyen, Mary (2020). Juneau Afternoon, *KTOO – Public Radio*, Juneau, Alaska, July 24, 2020.
<https://www.ktoo.org/2020/07/23/our-cultural-landscape-virtual-conference-2/>

ANSEP welcomes largest-ever group, with its first virtual Acceleration Academy, *The Delta Discovery*, July 1, 2020.
<https://deltadiscovery.com/ansep-welcomes-largest-ever-group-with-its-first-virtual-acceleration-academy/>

Education during the summer: ANSEP students get a head start before college, *KTVB The Voice of Alaska*, June 26, 2020. <https://www.newsbreak.com/alaska/anchorage/news/0PREBKDw/education-during-the-summer-ansep-students-get-a-head-start-before-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/>

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.cshtml>

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<https://deltadiscovery.com/courage-3/>

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

Stantec named a Top 50 STEM workplace by the American Indian Science and Engineering Society, Engineering, *Alaska Business Monthly*, May 7, 2020.
<https://www.akbizmag.com/industry/engineering/stantec-named-a-top-50-stem-workplace-by-the-american-indian-science-and-engineering-society/>

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

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/>

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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

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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

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Sealaska Corporation (2020). *Sealaska – Proud Partner of ANSEP*, Sealaska Kwaan, March 2, 2020. <https://www.youtube.com/watch?v=1xhXSFbH0Uw>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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University of Alaska Anchorage
ANSEP Building, Anchorage, Alaska 99508
(907) 786-1860 hpschroeder@alaska.edu

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

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

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