

Allen L. Jones, PhD, PE

South Dakota State University
Department of Civil and Environmental Engineering
Box 2219, Crothers Engineering Hall 124
Brookings, South Dakota 57007
allen.jones@sdstate.edu
605-688-6467 (direct)

Jones Earth Technologies, LLC
P.O. Box 481
Brookings, SD 57006
allen.jones@jetllc.com
605-695-6467 (cell)

ACADEMIC EDUCATION

Doctor of Philosophy, Civil Engineering, 2003, University of Washington, Seattle, WA. Minor studies: Probability and Statistics.

Master of Science, Geological Engineering, Geotechnical Emphasis, 1988, University of Idaho, Moscow, ID. Minor studies: Geostatistics.

Bachelor of Science, Geological Engineering, Geotechnical Emphasis, 1986, University of Idaho, Moscow, ID.

PROFESSIONAL SUMMARY

Professor, 2013 to Present; **Associate Professor**, 2005 to 2013; **Assistant Professor**, 2003 to 2005; **Tenure** granted 2006. South Dakota State University, Brookings, SD.

Highlights (see remainder of vita for details):

- Documented effective and highly rated teaching
- Active in academic quality and rigor
- Adapted to the role of increasing research responsibilities at SDSU through progressive increase in research to match university goals
- Successful collaborative research with other institutions and disciplines
- Effective advising of both undergraduate and graduate student work
- Departmental assessment coordinator
- Departmental ABET coordinator
- Active in university, regional and community service
- ABET EAC Program Evaluator

Senior Engineer and **Vice President**, 2003 to Present (mainly summers). Jones Earth Technologies, LLC, Brookings, SD. Provide expert witness, training, geographic information and computer programming, and design engineering services for projects in Washington, Colorado, California, and South Dakota.

Highlights:

- Understanding of business practices
- Mentored engineering staff
- Involved in projects with high technical requirements
- Provided expert witness

Pre-Doctoral Associate, 2000 to 2002. University of Washington, Seattle, WA. Responsible for developing and teaching graduate coursework in civil engineering.

Graduate Research Assistant, 2002 to 2003. University of Washington, Seattle, WA.

Senior Associate Engineer and Senior Project Manager, 1988 to 2003. Hart Crowser, Inc., Seattle, WA. Responsibilities included business development through frequent client interaction, proposal writing and project procurement, project tracking and management, review and performing technical analyses, report writing related to engineering projects, client development and marketing – stock owner in privately held corporation.

Highlights:

- Progressive increase in responsibilities with five promotions over 17 years
- Managed staff and project engineers – staff mentoring in career development
- Keenly familiar with a wide variety of construction methods – buildings, transportation, civil works, environmental, etc.
- Trained, implemented, and managed of a company-wide CADD system
- Helped facilitate a corporate-wide Total Quality Management (TQM) program based on ISO 9000 and Lean Management of professional services
- Successfully managed \$1,200,000 in engineering design and professional services during last year at company
- Worked successfully with interdisciplinary teams for the successful completion of projects
- Worked successfully with owners, architects, engineers, developers and construction managers for the successful completion of projects
- Active in strategic planning of corporation with \$40 million in annual revenues

Instructor, 1987 to 1988, University of Idaho, Moscow, ID.

Research Assistant and Teaching Assistant, 1986 to 1988, University of Idaho, Moscow, ID.

Staff Engineer, 1987. Geo-Hydro Engineers, Atlanta, GA. Responsibilities include laboratory and field construction quality testing of asphalt, steel, concrete and soils.

PROFESSIONAL LICENSES AND CERTIFICATIONS

Licensed Professional Engineer (PE), Washington (1989), California (1996), and South Dakota (2003)

Licensed Geotechnical Engineer (GE), California (1998)

Licensed Geologist (LG), Washington (2001)

Licensed Engineering Geologist (LEG), Washington (2001)

AHERA Asbestos Abatement Project Designer Certification (1996)

Health and Safety at Hazardous Waste Sites Certification (1991)

Radiation Safety and Use of Nuclear Gauges Certification (1989)

Concrete Technician Certification, Georgia (1987)

PROFESSIONAL AFFILIATIONS

The Geo-Institute

American Society of Civil Engineers

American Society of Engineering Educators

International Society of Soil Mechanics and Geotechnical Engineers

United States Universities Council and Geotechnical Engineering Research
Geoprofessional Business Association

TEACHING

Dr. Jones is committed to high-quality curriculum development and assessment, knowledge of accreditation requirements, and excellence in teaching at both the undergraduate and graduate levels.

South Dakota State University

Taught civil engineering courses at the undergraduate and graduate level.

Highlights:

- Implemented major curricular changes to Capstone Design; coordinated course.
- Implemented major curricular changes to Professional Seminar esp., engineering ethics and communication.
- Use multiple distinct methods to assess and improve effective teaching:
 - Use the Fundamentals of Engineering (FE) exam scores to track improvements to required undergraduate course. Resulted in improving scores from 80% of national average to 115% of national average over several years of improvement.
 - Use unique rubric to assess ABET program outcome in course responsible for.
 - IDEA Center student evaluations.
 - Course learning outcome assessment by devising unique course objectives and assessment by lesson/objective with course deliverables.
- Attended the National Effective Teaching Institute (NETI) held in conjunction with the 2007 American Society of Engineering Education (ASEE) Annual Conference. The objectives of the workshop were to improve teaching effectiveness and provide materials and methods for use in instructional development programs for faculty members at their institutions (summer, 2007).
- Deep understanding of curricular development and assessment by serving as ABET PEV, university program reviewer, assessment coordinator, and ABET coordinator.

University of Washington

Taught civil engineering course (earth retaining structures) at the graduate level.
Implemented major curricular revisions for courses responsible for.

University of Idaho

Taught general engineering courses at the undergraduate level (Engineering Graphics, AutoCAD Drafting and Design, Mechanics of Materials Recitation).

Courses Taught (South Dakota State University, University of Washington and University of Idaho)

Graduate Courses

- CEE 524, Lateral Earth Pressures and Retaining Walls
- CEE 546, Advanced Geotechnical Engineering
- CEE 547, Foundation Engineering
- CEE 632, Advanced Foundation Engineering

CEE 739, Advanced Geotechnical Testing and Laboratory

Undergraduate Courses

CEE 282, Computer Aided Civil Engineering Design
 CEE 346, Geotechnical Engineering and Laboratory
 CEE 446, Advanced Geotechnical Engineering
 CEE 447, Foundation Engineering
 CEE 464, Civil Engineering Capstone Design
 CEE 465, Civil Engineering Capstone Design II
 CEE 490, Professional Seminar
 ENGR 101, Engineering Graphics
 ENGR 201, AutoCAD Drafting and Design

ADVISING

Undergraduate Advisor for an average of 25 students per semester (SDSU).

Participated voluntarily in advising workshops and undergraduate advising assessment (SDSU).

Certificate of Appreciation from the Honors College for outstanding contribution to the Honors College and the educational experiences of Casey Janisch.

Representative of the Department of Civil and Environmental Engineering to the Honors College.

Undergraduate Research Advisor: Nicole Campbell (Evaluation of chip seals, 2013) and Ryan Larsen (Erosion function apparatus, 2011).

Thesis Advisor: Richard Uckert (2005), Dane Jorgensen (2008), Brice Exley (2011), Shawn Maassen (2013), Stephanie Peters (2012), Tomas Druyvestein (2013), Tom Larsen (2013), Kofi Oppong (2015), Casey Janisch (2016).

Design Paper Advisor: Andrew Johnson (2005), Michael McCarty (2005), Joe Chilson (2007), Jared Haskins (2007), Nathan Lichty (2010), Eric Olson (2012), Joe Rozniarek (2012).

MS Committees as Departmental Representative: Shaun Vanhove (2007), Amanda Boushek (2007), Christina Bennett (2007), Nick Haltvik (2009), Chad Stripling (2009), Zachary Gutzmer (2009), Adam Roark (2010), Robbie Veurink (2011), Jason Stripling (2011), Christopher Brozik (2011), Christopher Sherman (2012), Brittney Ahrenstorff (2014), Christopher Jeseritz (2014), Jamie Veurink (2014), Michael Konrad (2014), Walker Olson (2014).

MS Committees as Graduate Faculty Representative: Brandon C. Harland (2003), Ryan Sylvester (2004), Ahmed Al-Omari (2005), Dayasagar Thudukurthy (2006), Andrew Hopp (2007), Robert Preston (2010), Joshua Smith (2014).

PhD Committees as Graduate Faculty Representative: Yushen Wu (2010), Ken Shan (2012), Satya Sadhu (2015), Ibrahim Vahyala (2013), Shelly Brandenburger (2015).

PUBLICATIONS

Jones, A.L., (2016) Invited paper "King Street Center Project Case Study, Seattle, Washington, USA, Upward Integration of Curricular Content in Multiple Geotechnical Courses", International Journal of Geoengineering Case Histories, Special Issue: Case studies

- developed for geotechnical engineering instruction, International Society for Soil Mechanics and Geotechnical Engineering. In preparation (peer reviewed abstract and paper).
- Jones, A.L. (2015) "A Metric for Assessment of ABET Accreditation Student Outcome "b" – Experimental Design and Analyzing the Results", American Society of Engineering Education 122nd Annual Conference, Seattle, Washington, June 14 – 17, 2015 (peer reviewed abstract and paper).
- Jones, A.L., (2013) "Engineering Ethics: How Does it Fit Into Professional Engineering?", 49th Minnesota Power Systems Conference Brooklyn Center, MN, IEEE, Power and Energy Society, November 5-7, 2013 (peer reviewed abstract).
- Jones, A.L. (2013) "Engineering Ethics", 2013 North Central Engineering Conference, Morton, MN, Upper Great Plains Rural Electric Cooperatives, March 12, 2013 (non-peer reviewed abstract).
- Jones, A.L., Wehbe, N.I., Klay, S. (2012) "Character, Extent, and Severity of Corrosion in Continuously Reinforced Concrete Pavements in South Dakota." International Conference on Long-life Concrete Pavements—2012, Federal Highway Administration and the National Concrete Pavement Technology Center, September 18–21, 2012, Seattle, Washington. (peer-reviewed abstract and paper).
- Jones, A.L., Wehbe, N.I., Klay, S. (2012) "Character, Extent, and Severity of Corrosion in Continuously Reinforced (CRC) Pavements for Service-Life Extension and Improved Sustainability", FIB Symposium: Concrete Structures for Sustainable Community, STOCKHOLM 2012, 11-14 June 2012, Royal Institute of Technology (KTH), Stockholm, Sweden (peer reviewed abstract and paper).
- Ting, F.C.K., Larsen, R. J. and Jones, A. L. (2012). "Hydrographs and estimates of scour depth excess for pier scour prediction use for ungauged streams with scour rate in cohesive soils method." Journal of the Transportation Research Board, Transportation Research Record, Vol. 2262, pp. 193-199 (peer reviewed paper).
- Ting, Francis C.K., Larsen, Ryan J., Jones, Allen L. (2011). "Simplified Approach to Generating Hydrographs and Estimating Probability of Scour Depth Exceedance for Pier Scour Predictions in Ungauged Streams Using SRICOS Method", Transportation Research Board of the National Academies Annual Conference, January 23 – 27, 2011, Washington, DC (peer reviewed abstract and paper).
- Jones, A.L., (2011) "King Street Center Project: A case study in Seattle, Washington" 59th Annual Minnesota Geotechnical Conference, St. Paul, Minnesota, Minnesota Geotechnical Society and the Geo-Institute of the American Society of Civil Engineers, February, 2011 (non-peer reviewed abstract and paper).
- Larsen, R.J., Ting, F.C.K., Jones, A.L., (2010) "Predictions Of Velocity Distribution and Pier Scour Depth at the Bend of a Compound Channel: The Highway 13 Bridge Over the Big Sioux River at Flandreau, South Dakota", Journal of Hydraulic Engineering, American Society of Civil Engineers (ASCE), Vol. 137, No. 5, May 1, 2011.
- Jones, A. L. (2010) "A Metric For Assessment Of ABET Accreditation Outcome 3B – Designing Experiments And Analyzing The Results", American Society of Engineering Education, North Midwest Section Conference, Mankato, MN, October 21-23, 2010 (fully peer-reviewed abstract and paper).

- Jones, A.L., Kaldenbach, G. (2008) "Case Study: Lessons Learned from Small, Remote Projects Exemplified by a Reclamation Project near Bison, South Dakota", National Association of Abandoned Mine Lands Conference, Durango, CO, October 26 – 29, 2008 (fully peer-reviewed abstract and paper).
- Jones, A.L., and Uckert, R.S. (2006). "The investigation of the use of coal mine refuse for subbase materials and embankment fill in South Dakota." *Proceedings of the 2006 Billings Land Reclamation Symposium and American Society of Mining and Reclamation*, Billings, MT, June 5 - 8, 2006 (fully peer-reviewed abstract and paper).
- Jones, A. L., Arduino, P., Kramer, S. L., Eberhard, M. O. (2002) "Uncertainty analysis for a seismic warning system" *Transportation Research Record No. 1808, Soil Mechanics 2002*. Washington, D.C.
- Kramer, S.L. and Jones, A.J. (2000). "Implications of Great Cascadia Subduction Zone Earthquakes for Liquefaction and Landslides," *Proceedings, Penrose Conference* (invited paper), Seaside, Oregon, June.
- Kaldenbach, G., Swayne, M., Jones, A. L., Jones, A. J. (2000) "Abandoned Mine Information (AMI) and Mapping," Presented at the Annual Conference of the National Association of AML Programs, Steamboat Springs, Colorado.
- Jones, A. L., Bailey, M. J. (2000) "Case Study: Prediction of coal mine subsidence below clubhouse," in *Proceedings of the Fourth North American Rock Mechanics Symposium*, Seattle, Washington, July 31 – August 3, pp. 449-455.
- Winter, D. A., Jones, A. J., Jones, A. L. (1999) "Shoring and Dewatering Design and Performance, King Street Center, Seattle," *Spring Seminar on Excavation Support and Dewatering*, sponsored by the ASCE and the University of Washington, 26 p.
- Miller, S. M., Jones, A. L. (1988) "Probabilistic estimation of earthquake ground shaking intensities in Idaho and Western Montana," in *Proceedings of the 24th Symposium on Engineering Geology and Soil Mechanics*, Coeur d'Alene, Idaho, February 29 – March 2, pp. 375-389.

ACADEMIC REPORTS

- Jones, A, Roberts, L, Exley, B, Bertram, B. (2011) "Review and Refinement of SDDOT's LRFD Deep Foundation Design Method", Research report SD2008-08, South Dakota Department of Transportation Office of Research, Pierre, SD.
- Ting, F. C. K., Jones, A. L. and Larsen, R. J. (2010). "Evaluation of SRICOS Method on Cohesive Soils in South Dakota." *Mountain Plains Consortium Report No. 08-195*, Upper Great Plains Transportation Institute, United States Department of Transportation, University Transportation Centers Program, Fargo, ND.
- Ting, F.C.K., Jones, A.L., Larsen, R., (2009) "Evaluation of SRICOS Method on Cohesive Soils in South Dakota", Research Report SD2006-08, South Dakota Department of Transportation Office of Research, Pierre, SD.
- Jones, A., Kramer, S., Arduino, P. (2001) "Spatial Uncertainty of Geotechnical Soil Properties", *Pacific Earthquake Engineering Research (PEER) Center*, University of California, Berkeley, 100 p.

Kramer, S., Arduino, P., Eberhard, M. Jones, A., (2001) "Seismic Instrumentation System for Warning and Rapid Recovery", Washington State Department of Transportation, 128 p.

PROFESSIONAL REPORTS

Authored over 250 technical reports for engineering projects while employed as a design engineer and project manager. Authored and was in responsible charge for over 40 plan and specification sets. The relevance of this work is the applied experience that is brought to the classroom (teaching), being aware of opportunities and trends in industry (advising) and technical areas of industry that need investigation (research). Examples of reports, and plans and specifications include:

1. Engineering Report, Navy Community Support Complex, Everett, WA, prepared for NBBJ Architects, Seattle, WA, 1994, 200 pp. (est.)
2. Engineering Report, King Street Center, Seattle, WA, prepared for Wright Runstad Developers, Seattle, WA, 2000, 50 pp. (est.)
3. Design Analysis and Engineering Report, Replace Berm Liners, Fleet and Industrial Supply Center, Manchester, WA, prepared for Summit Engineers, Seattle, WA, 1996, 100 pp. (est.)
4. Perkins County Reclamation Plans and Specification, United States Department of Interior, Office of Surface Mining, 2005, Six plan sheets and 100 pages of specifications.
5. Safeco Insurance World Data Center Plans and Specifications, Safeco Insurance Company, Six plan sheets and 75 pages of specifications (est.).

PRESENTATIONS

"A Metric for Assessment of ABET Accreditation Student Outcome "b" – Experimental Design and Analyzing the Results", American Society of Engineering Education 122nd Annual Conference, Seattle, Washington, June 14 – 17, 2015.

Invited Plenary Session Speaker (800 attendees), "Engineering Ethics: How Does It Fit into Professional Engineering?" 49th Minnesota Power Systems Conference, University of Minnesota and IEEE, Power and Energy Society, Twin Cities Chapter, November 5 – 6, 2013, Brooklyn Center, Minnesota.

Invited General Session Speaker, "Engineering Ethics and the Professional Engineer" 2013 North Central Engineering Conference, Upper Midwest Chapter, March 14, 2013, Morton, Minnesota.

"Corrosion in CRC Pavements in South Dakota" 11th Annual Concrete Conference, Opportunities and Overlays, February 26-27, 2013, Sioux Falls, sponsored by the South Dakota Ready Mixed Concrete Association and the American Concrete Pavement Association.

"Academic Quality and Rigor – Impacts on Grade Inflation" ASEE Best Practices Meeting, SDSU, Brookings, SD February 8, 2013.

"Character, Extent, and Severity of Corrosion in Continuously Reinforced Concrete Pavements in South Dakota." International Conference on Long-life Concrete Pavements—2012, Federal Highway Administration and the National Concrete Pavement Technology Center, September 18–21, 2012, Seattle, Washington.

"Character, Extent, and Severity of Corrosion in Continuously Reinforced (CRC) Pavements for Service-Life Extension and Improved Sustainability", FIB Symposium: Concrete Structures

- for Sustainable Community, STOCKHOLM 2012, 11-14 June 2012, Royal Institute of Technology (KTH), Stockholm, Sweden.
- "King Street Center Project: A case study in Seattle, Washington" 59th Annual Minnesota Geotechnical Conference, St. Paul, Minnesota, Minnesota Geotechnical Society and the Geo-Institute of the American Society of Civil Engineers, February, 2011.
- "A Metric for Assessment of ABET Accreditation Outcome 3B – Designing Experiments and Analyzing The Results", American Society of Engineering Education, North Midwest Section Conference, Mankato, MN, October 21-23, 2010.
- "Career Planning" Invited Speaker at the 2010 Midwest Regional Student Conference of the American Society of Civil Engineers, Brookings, SD.
- "Case Study: Lessons Learned from Small, Remote Projects Exemplified by a Reclamation Project near Bison, South Dakota", National Association of Abandoned Mine Lands Conference, Durango, CO, October 26 – 29, 2008.
- "The Investigation of the Use of Coal Mine Refuse for Subbase Materials and Embankment Fill in South Dakota." 2006 Billings Land Reclamation Symposium sponsored by the American Society of Mining and Reclamation, Billings, MT (2006).
- Jones, A. L. (2004) "King Street Center – A Case Study in Difficult Shoring and Foundations Support Conditions", Geotechnical Conference, American Society of Civil Engineers and South Dakota State University.
- Kaldenbach, G., Swayne, M., Jones, A. L., Jones, A. J. (2000) "Abandoned Mine Information (AMI) and Mapping," Presented at the Annual Conference of the National Association of AML Programs, Steamboat Springs, Colorado.
- Kaldenbach, G., Swayne, M., Jones, A. L., Jones, A. J. (2000) "Abandoned Mine Information (AMI) and Mapping," Presented at the Annual Conference of the National Association of AML Programs, Steamboat Springs, Colorado.
- Winter, D. A., Jones, A. J., Jones, A. L. (1999) "Shoring and Dewatering Design and Performance, King Street Center, Seattle," Spring Seminar on Excavation Support and Dewatering, sponsored by the ASCE and the University of Washington.
- Varney, G., Jones, A. L. (1998) "Base isolation of the Washington State Emergency Operations Center," Structural Engineers Association of Washington.

FUNDED GRANTS

- Compaction of Granular Fill, PI Allen Jones, Funded by the South Dakota Department of Transportation and the United States Department of Transportation through the Mountain-Plains Consortium (MPC) University Transportation Center, August 2015 – December 2016, \$65,000.
- Structure Alternatives for Local Roads, PI Allen Jones, Funded by the South Dakota Department of Transportation and the United States Department of Transportation through the Mountain-Plains Consortium (MPC) University Transportation Center, January 2014 – December 2015, \$49,998.

- Extent, Severity, and Location of Chip Seal Loss on the South Dakota State Road Network, PI Dr. Allen Jones, Funded by the South Dakota Department of Transportation and the United States Department of Transportation through the Mountain-Plains Consortium (MPC) University Transportation Center, April 2012 – April 2013, \$48,779.
- Mitigation of Corrosion in Continuously Reinforced Concrete Pavements, PIs Dr. Nadim Wehbe and Dr. Allen Jones, Mountain Plains Consortium and the South Dakota Department of Transportation, \$152,000, July 2010 – December 2012.
- Review and Refinement of the SDDOT's LRFD Deep Foundation Design Method, PI Dr. Allen Jones, South Dakota Department of Transportation, \$110,000, November 2008 – August 2010.
- Durability of Pavement Makings, PI Dr. Nadim Wehbe, and Co-PIs Dr. Allen Jones, Dr. Hesham Maghoub, South Dakota Department of Transportation and the United States Department of Transportation through the Mountain-Plains Consortium (MPC) University Transportation Center, October 2008 – October 2011, \$145,000.
- Evaluation of Scour Rate In Cohesive Soils (SRICOS) Method on South Dakota Cohesive Soils, PIs Francis Ting and Allen Jones, South Dakota Department of Transportation and the Mountain Plains Consortium, \$127,000, January 2007 – December 2008.
- Use of Mine Tailings from Abandoned Mine Lands in South Dakota for the Construction of Highway Embankments, PI Allen Jones, Experimental Program to Stimulate Competitive Research (EPSCOR) in South Dakota, \$15,000, September 2004 – May 2005.
- Laboratory Equipment Upgrades for Geotechnical Laboratory Testing, Allen Jones, New Ideas Grants from SDSU, \$7,112 September 2003 – May 2004.
- Use of Mine Tailings from Abandoned Mine Lands in South Dakota for the Construction of Highway Embankments, Experimental Program to Stimulate Competitive Research (EPSCOR), \$4,490 September 2004 – May 2005.
- Alternative Closure Design and Construction Methods for Abandoned Mine Lands, May 1996 – December 1998, PIs Allen Jones and Jeff Wagner, United States Department of the Interior, Bureau of Mines, \$300,000, May 1992 – May 1994.

SERVICE

Assigned Professional Service

- Department of Civil and Environmental Engineering Assessment Coordinator (Since 2014). Assigned to assist the department in assessment to comply with ABET Accreditation policies and guidelines. Started analyzing assessment data (esp. FE data), generating a checklist for faculty to use during the self-study period, and becoming familiar with ABET accreditation standards and procedures. Attended necessary workshop in the Fundamentals of Program Assessment in 2013. Presented current status of assessment to the CEE Advisory Board.
- Department of Civil and Environmental Engineering ABET Coordinator (Since 2014). Responsible for partnering with the department head to coordinate efforts of the CE program to obtain ABET accreditation. The position works closely with professors, students and others within the university to ensure compliance with ABET for the CE program. Dr. Jones is nearly complete with the ABET Self-Study for the 2015

accreditation cycle. This has a substantial impact on the department in that it will help to maintain the CE program's ABET accreditation.

General University Service, High Impact

ABET Program Evaluator (Since 2014). Successfully completed the ABET Program Evaluators Training and designated an ABET Program Evaluator. Training was both online and culminated in final training and a simulated site visit at Baltimore in the spring of 2014. Being a PEV allows Dr. Jones to observe other successful CE programs and bring that knowledge back to SDSU to assist in future accreditation of the CEE program at SDSU. Dr. Jones was an Observer PEV at his first institution in the fall of 2014. Site visits as a PEV to other CE programs will be assigned by ASCE and ABET and will occur every fall.

Chair, Academic Affairs Committee (2012 – 2013). Provide leadership as chair for academic affairs at SDSU including curriculum review, subcommittee organization, and decisions on other academic issues. Significant outcomes included a policy on final examinations and System General Education requirements review.

Chair, Taskforce on Academic Quality and Rigor (2011 – 2012), Co-Chair (2012 – 2013). Taskforce started a campus-wide dialog on academic quality and rigor. The efforts resulted in hosting a Fall Faculty Conference and Talks on Teaching at SDSU as well as a system-side (BOR) conference on academic quality and rigor.

Member, SD Board of Regents System Conference on Academic Quality: Establishing Expectations and Measuring Success Planning Committee, 2012-2013.

Host "Talks on Teaching" an open Faculty discussion on Academic Quality and Rigor, SDSU, 2012 – 2013.

Chair, Safety and Security Task Force (2010). Invited by SDSU President to provide leadership as chair on a task force that examined all aspects of safety and security on SDSU's main campus. The work involved coordinating 15 task force members, managing a consultant and budget, and coordinating a 150 page report. The impact of the work of this task force lead to enhancements in providing a safer learning environment for students, faculty, staff and guests.

Vice-Chair, Environmental Stewardship and Sustainability Committee (2009 – 2010). Provide leadership to the committee by helping to create a strategic plan for the university in environmental stewardship and sustainability. The impact will help bring SDSU into the forefront of sustainable practices as a land grant university.

Co-Chair, Committee for the Distinctive Community (2007 – 2009), for university-wide accreditation of the North Central Association – Higher Learning Commission. Provided leadership as co-chair of this committee to coordinate the work of 10 committee members in providing analysis and a written report as part of university accreditation. The impact helped lead to successful university re-accreditation in 2009.

Member, Institutional Graduation Requirements (IGR) Subcommittee, 2010 and 2011. Impact resulted in updated and efficient institutional graduation requirements for SDSU.

Chair, Celebration of Faculty Excellence that coordinated an annual faculty appreciation and awards banquet (2011).

Other General University Service

- Member, Jerome J. Lohr College of Engineering Promotion and Tenure Committee (2014 – 2015)
- Chair, Structural Engineering Tenure-Track Faculty Search Committee (2014 – 2015)
- Member, Search Committee for SDSU Ombudsman (2015)
- Member, Search Committee for CEE Department Head (2013 – 2014)
- Member, Institutional Review of the Department of Mathematics and Statistics (2014).
Served with two outside reviewers (one from George Mason University and the University of Wyoming)
- Member (2013), Third Year Review Committee for Civil Engineering Faculty
- Member (2013), Third Year Review Committee for Construction Management
- Member, Planning Committee (2008) for exploratory planning for Bachelor of Science Degree in Construction Engineering
- Vice-Chair, Academic Affairs Committee (2009 – 2010)
- Co-Chair (2010 – 2011) and Member (2009 – 2011), Faculty Recognition Committee, University-wide faculty recognition
- Elected by the College of Engineering as representative to the Graduate Council (2006 – 2007, 2009 – 2011) for the Graduate School
- Member, Academic Senate (2008 – 2011), elected representing the College of Engineering.
- Member, Academic Appeals Committee (2007 – 2009), to review student grade and academic misconduct proceedings
- Member of Graduate Catalog Committee (2007) to guide the deployment of a web based Graduate Catalog, South Dakota State University
- Moderator, Senior Design Conference (2007), South Dakota State University
- Member, Departmental Standards Committee (2007-2010), produced standards for promotion and tenure, South Dakota State University
- Member, Department Head Search Committee (2005-2006 and 2007-2008), Department of Civil and Environmental Engineering, South Dakota State University
- Member, Curriculum Committee (2006, 2009, 2010, 2011), Department of Civil and Environmental Engineering, South Dakota State University
- Member, Planning Committee (2005) for intent to plan for Doctor of Philosophy Degree in Engineering
- Invited by the Graduate School to be a Faculty Marshall at Graduation in 2010

Invited Moderator at Sewrey Colloquium for Teaching and Learning in 2010

Member of the David Fee Memorial Award Subcommittee, 2010 – 2011

Member of Academic Affairs Committee, 2007 – 2008 and 2009 – 2010 terms

Elected by College of Engineering faculty to the Graduate Council, member for 2009 – 2011 term, alternate for 2007 – 2009 term

Member of the Academic Appeals Committee, 2006 – 2007

Member of Department of Civil Engineering Standards Committee, 2007 to 2008, 2013, 2015

Member of Department of Civil Engineering Curriculum Committee, 2006 through 2015

Member of Department of Civil Engineering Web Page Committee, 2004

Service to the Profession

Invited Member of SDDOT Technical Panel for LRFD Research Project. The Technical Panel oversees and guides research conducted by researchers external to SDDOT. High impact in that SDSU is seen as an expert in the area.

Co-Chair of the Geotechnical Seminar Planning Committee, American Society of Civil Engineers, South Dakota State University, the Mountain Plains Consortium, for the years 2006, 2008, 2010, 2012, and 2014 (all separate planning events and seminars). This is a geotechnical engineering technical conference that serves practitioners and academics in South Dakota, Iowa, and Minnesota that typically has 135 participants. High impact to the engineering profession in the upper Midwest.

Member, American Society of Civil Engineers (ASCE), the Geo-Institute National Committee on Engineering Geology and Site Characterization. Participate in meetings at main conference and conference calls. Active in organizing the sessions for the National ASCE-Geoinstitute Conference GeoCongress for 2014. High impact for national exposure for SDSU.

Member, American Society of Civil Engineers (ASCE), the Geo-Institute National Committee on Deep Foundations. Attend meetings and conference calls to plan for the Geo-Congress Conference in 2015.

Moderator of Technical Sessions, The Asphalt Conference, (2008) Local Technical Assistance Program and the South Dakota Department of Transportation. Pierre, South Dakota.

Member of Technical Planning Committee, The Asphalt Conference, (2008 and 2009) Local Technical Assistance Program and the South Dakota Department of Transportation. Pierre, South Dakota.

National Science Foundation panel reviewer in the CMS program in 2008. Reviewed 10 proposals and attended the panel review in Washington, DC.

Invited proposal reviewer for the National Science Foundation. Reviewed proposals and provided ratings and comments to proposers to NSF in 2010.

At the invitation of the South Dakota Department of Transportation, attended a multi-day Research Opportunities Conference in Pierre, South Dakota in 2006 and 2010. The conferences were designed to develop research ideas for the SDDOT by researchers in South Dakota.

Technical reviewer for the 4th decennial Geotechnical Earthquake Engineering and Soil Dynamics Conference organized by the EESD Committee of ASCE's Geo-Institute. Reviewed technical abstracts and papers for submission to this conference.

Technical reviewer for the 2009 GeoFrontiers Conference for the American Society of Civil Engineers and the GeoInstitute.

Paper reviewer for International Foundation Congress and Equipment Expo Conference (2008).

Community

Judge for Engineering Science Fair (2006 and 2010), Eastern South Dakota Science & Engineering Fair (ESDSEF), Brookings, SD.

Elected Treasurer (2007, 2008, 2009, 2010), Afton Township, Brookings County, South Dakota.

Elected Supervisor of Board (2011, 2012, 2013, 2014, 2015, 2016), Afton Township, Brookings County, South Dakota. Chairperson 2013 and 2016.

Member, Brookings County Zoning Board for District 3 and Member, Brookings County Planning Commission (dual capacity, 2014, 2015). Applied for and appointed by Brookings County Commission.

Member of Board of Directors (2006, 2007, 2008) American Red Cross, Brookings Chapter, Brookings County Area, South Dakota.

ADDITIONAL PROFESSIONAL DEVELOPMENT (not listed above)

The 2015 – 2016 Comprehensive Leadership Program, South Dakota State University, Dr. Jeffrey D. Yergler, Golden Gate University and Integer Leadership Consulting, August 12 and 13, 2015; January 6 and 7, 2016; and May 12 and 13, 2016, Brookings, SD

Fall Faculty Conference – An Inclusive International Impact (Track 1 - "Incorporating a Global and Inclusive Perspective in the Classroom" with David Fougere, and Workshop #3 - International Student Mentoring and Inclusivity with Nathan Ziegler, Rusty Wienk and Greg Wymer), SD SU, August 19, 2015, Brookings, SD

Sustainability Webinar, American Society of Civil Engineers, Strategies for Including Principles of Sustainability in Civil Engineering Design, November 3, 2015

Joint Detailing Webinar, Mountain Plains Consortium, Joint Detailing for Improved Performance of Double Tee Bridge System, December 17, 2015 GeoCongress, American Society of Civil Engineers and the GeoInstitute, February 23 – 25, 2014, San Diego, CA

Workshop: Fundamentals of Program Assessment – ABET, September 28, 2013, Seattle, Washington.

- Workshop: Effective Teaching and Effective Assessment of Teaching, South Dakota State University, August 19, 2013, Brookings, SD.
- Conference: South Dakota Board of Regents System Conference on Academic Quality: Establishing Expectations and Measuring Success, at South Dakota State University, May 8 – 9, 2013, Brookings, SD.
- Symposium: Advising Symposium with Inclusive Advising and The Role of the Advisor Breakouts (2013), South Dakota State University, Brookings, SD.
- Workshop: Committee Leadership Forums for Vice-chairs and Chairs of SDSU university committees (2013), South Dakota State University, Brookings, SD.
- Workshop: Active Learning Cloud Engineering Cohort. (2011). South Dakota State University, Brookings, SD.
- 59th Annual Geotechnical Engineering Conference. (2011). University of Minnesota, February 25, St. Paul, MN
- Mountain Plains Consortium Student Conference and Presentations. (2011). Salt Lake City, UT, September 10 – 13, Sponsored by Mountain Plains Consortium.
- National Science Foundation Workshop on Grant Writing (2010), Lincoln, NE.
- Annual Conference of the National Association of Abandoned Mine Land Programs. (2008). Durango, Colorado.
- The Asphalt Conference. (2008) Local Technical Assistance Program and the South Dakota Department of Transportation. Pierre, South Dakota.
- Geotechnical Conference. (2006) South Dakota State University and the Mountain Plains Consortium. Sioux Falls, South Dakota.
- GeoDenver. (2007) American Society of Civil Engineers and the Geoinstitute, National Geotechnical Conference. Denver, Colorado.
- Billings Land Reclamation Symposium. (2006) American Society of Mining and Reclamation. Billings, Montana.
- The Governor's Restoration Forum. (2006) Economic and Public Benefits of Restoring Western Landscapes. Billings, Montana.
- Legal Issues for South Dakota Professional Engineers. (2006) Continuing Education Short Course, Half Moon Seminar, LLC, Sioux Falls, South Dakota.
- 54th Annual Geotechnical Engineering Conference. (2006) Department of Civil Engineering, University of Minnesota, Minnesota Geotechnical Society, and the Geoinstitute of ASCE. St. Paul, Minnesota.
- Structural Seminar. (2005) American Society of Civil Engineers and South Dakota State University. Sioux Falls, South Dakota.

- Countermeasure Design for Bridge Scour and Stream Instability. (2005). National Highway Institute and Federal Highway Administration. NHI Course 135048. Fort Pierre, South Dakota.
- American Society of Civil Engineers National Conference. (2003). Participated in technical sessions and committee meetings for the Geo-Institute. Nashville, Tennessee
- Recent Advances in Geotechnical Earthquake Engineering. (2002) American Society of Civil Engineers and the University of Washington, Seattle, Washington.
- National Association of AML Programs Annual Conference. (2000) Steamboat Springs, Colorado.
- Geotechnical Field Instrumentation. (2000) American Society of Civil Engineers and the University of Washington, Seattle, Washington.
- EERI Annual Conference. (2000) St. Louis, Missouri.
- Excavation Support and Dewatering. (1999) American Society of Civil Engineers and the University of Washington, Seattle, Washington.
- Specialty Conference on Geotechnical Earthquake Engineering and Soil Dynamics. (1998) University of Washington, Seattle, Washington.
- Landslides in the Puget Sound Region. (1998) American Society of Civil Engineers and the University of Washington, Seattle, Washington.
- Seismic Short Course on Evaluation and Mitigation of Earthquake Induced Liquefaction Hazards. (1997) San Francisco State University, San Francisco, California.
- Seminar on New Developments in Earthquake Ground Motion Estimation and Implications for Engineering Design Practice. (1994) Applied Technology Council, Redwood City, California.
- Total Quality Management Principles Course. (1993) The Institute for Quality Service, John Inman and Associates, Portland, Oregon.
- Value Improvement Projects Course. (1993) The Institute for Quality Service, John Inman and Associates, Portland, Oregon.
- RCRA Compliance Training Course. (1993) Hart Crowser, Inc., Seattle, Washington.
- Ground Modification Applications in Geotechnical and Geoenvironmental Engineering Course. (1993) American Society of Civil Engineers and the University of Washington, Seattle, Washington.
- Preliminary Environmental Assessments Course. (1992) Hart Crowser, Inc., Seattle, Washington.
- Seismic Design of Structures: Dynamic Analysis and Lateral Load Determination Course. (1992) University of Washington, Seattle, Washington.
- Soil Nailing and Reinforced Walls Seminar. (1992) University of Washington, Seattle, Washington.

Project Management Course. (1992) Clive Shearer, PE, CMC, Seattle, Washington.

Communication, Persuasive Negotiation, and Handling Difficult Situations Short Courses. (1992) D'Angelo & Associates, Seattle, Washington.

Second International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics. (1991) University of Missouri, St. Louis, Missouri.

Client Oriented Writing Short Course. (1991) Gardner Davis Seminars, Seattle, Washington.

Geotechnical Aspects of Earthquake Engineering Seminar. (1990) University of Washington, Seattle, Washington.

Design for Piles and Pile Groups - Current Engineering Short Course. (1990) University of British Columbia, Vancouver, B.C., Canada.