



NAME Stephen Jeans

DATE April 2024

COMPLETED ACADEMIC DEGREES

Degree Name	Subject Area	Where Completed	Date of Completion
Ph.D.	Curriculum Teaching and Learning: Adult Science Education	University of Calgary	2005
M.Ed.	Science Education	University of Calgary	1997
B.Ed.	General Education	University of Calgary	1987
B.Sc.	Physical Geography	University of Calgary	1984

ADDITIONAL ADVANCED STUDIES

Coursework Name	Subject Area	Where	Date of Completion
12 courses, Master of Environmental Science	Environmental Design	University of Calgary	1984 to 1986

ACADEMIC APPOINTMENT [overlapping with "Professional Experience" listed later in this CV]

Appointment Level	Institution	Dates (Yr to Yr)	Subject Area
Lecturer	Ambrose University	2021 to 2025	Earth & Space Sciences
Sessional Instructor	Mount Royal University	2022 to 2025	Chemistry and Physics, and, Earth and Environmental Science
Sessional Instructor	Ambrose University	2014 to 2021	Earth & Space Sciences
Sessional Instructor	Red Deer College	2015 to 2016	Teacher Education
Sessional Instructor	University of Alberta	2013 to 2016	Teacher Education
Sessional Instructor	University of Calgary	1997 to 2004, 2012, 2014	Teacher Education

ACADEMIC ADMINISTRATIVE APPOINTMENTS

Appointment Level	Institution	Dates (Yr to Yr)
Curriculum Leader: Secondary Science Teacher Education	University of Calgary	2000 to 2004
Curriculum Leader: Secondary Science Instruction	Calgary Roman Catholic Separate Schools	1987, 1990 to 1996

ACADEMIC TEACHING EXPERIENCE [overlaps with "Professional Experience" later in this CV]

Institution	Dates (Yr to Yr)	Courses Taught (Course # and Name)
Mount Royal University	2025 2024 to 2025 2024 (Wi, Sp) 2023 to 2024 2023 2023 2023 2022, 2024	ASTR 1101 The Solar System GEOG 2445 Environmental Problems and Resource Management NTSC 2201 Environmentally Sustainable and Healthy Societies NTSC 3000 Experimental Science for Elementary Education NTSC 1112 An Introduction to Current Environmental Issues GEOG 2155 Geological History of Life GEOG 1101 The Physical Environment Lab ASTR 1103 The Universe at Large
Ambrose University	2024 2024 2022 to 2025 2023 to 2025 2022 2016 to 2025 2021 to 2024 2014 to 2020 2014 to 2024	BIO 495 Independent Study BIO 493 Independent Study ECOL 235 Environmental Science ECOL 235T Environmental Science Tutorial ECOL 235L Environmental Science Laboratory GEOG 120 Physical Geography ASTR 120 Introduction to Astronomy SC 120 Introduction to Astronomy GEO 109 Introduction to Geology
Red Deer College	2016 2015	AFX 450 Advanced Field Experience: Secondary AFX 425 Advanced Field Experience: Elementary
University of Alberta	2013 to 2016 2013 to 2015	AFX 450 Advanced Field Experience: Secondary AFX 425 Advanced Field Experience: Elementary
University of Calgary	2014 2012 2004 2000 to 2001 1998 to 1999, 2002 to 2003 1998 to 1999, 2003 2003 to 2004 2002 to 2003 1988 to 1999, 2001 to 2003	EDUC 460 Specialization I – Secondary Science EDUC 411 Field Experience Course and Supervision EDTP 512 Science Teaching: <i>Terra incognita</i> or just terror? EDTP 512 Ethical Problems and Issues in Educational Practice EDTP 510 Secondary Science and Generalist Praxis: Case Inquiry Seminar EDTP 510 Secondary Science and Generalist Praxis: Field Supervision Course Pilot: On-line Secondary Science Community EDTP 506/508 Secondary Science Curriculum Contexts & Curriculum Studies: Professional Seminar EDTP 506/508 Secondary Science Curriculum Contexts & Curriculum Studies: Case Inquiry Seminar

	1988 to 1999, 2003	EDTP 506/508 Secondary Science Curriculum Contexts & Curriculum Studies: Field Inquiry Seminar
	1988 to 1999, 2003	EDTP 506/508 Secondary Science Curriculum Contexts & Curriculum Studies: Field Supervision
	2001 to 2002	EDTP 502/504 Learners and Learning/Teachers and Teaching: Professional Seminar
	1997, 1999	EDTP 502/504 Learners and Learning/Teachers and Teaching: Case Inquiry Seminar
	2002	EDTP 502/504 Learners and Learning/Teachers and Teaching: Field Inquiry Seminar
	2002	EDTP 502/504 Learners and Learning/Teachers and Teaching: Field Supervision
	1998 to 1999	EDCI 599.19 Trends in Secondary Science Education
	1998 to 1999	EDTS 474 Secondary Science Methods
	1997	EDTS 415/417 Secondary Education Field Experience Advisor
	1997	EDTS 405/407 Elementary Education Field Experience Advisor
	1996	EDTS 413 Secondary Education Field Experience Advisor
	1996 to 1998 1994	EDTS 451 Elementary Science Methods Continuing Education: Home-school Science and Math
	1993	Continuing Education: ESL Computing
	1986 to 1987	Faculty of Environmental Design: Thesis photography
SEEDS Foundation	2005 to 2007	On-line asynchronous adult instruction
Southern Alberta Institute of Technology	1990	Continuing Education: The art of computer graphics
Calgary Roman Catholic Separate Schools	2014 to 2016 1987 to 1996	Guest Teacher, all subject areas Home-room teacher; Science, Mathematics, Computer Technology, Faith Studies, etc.

SCHOLARLY PARTICIPATION

Books Authored or Edited

Dates (Yr to Yr)	Activity (Name of book, publisher etc.)
2003	"Secondary science curriculum case e-book (Theme III-IV, Year I)" editor, Master of Teaching Program, University of Calgary publication
2002	"Secondary science praxis case e-book (Theme V, Year II)" editor, Master of Teaching Program, University of Calgary publication
1997 to 1999	"Experienced science teachers at work with science-technology and science-technology-society curriculum materials" video series, editor, University of Calgary science-technology curriculum project (SSHRCC) publication

Refereed Publications

Dates	Activity (Name of article and journal)
2017	"Sound basis for teaching: Learning the Hertzsprung-Russell Diagram" with Richard Charter, Journal of The Royal Astronomical Society of Canada
2005	"Focusing on the missing half: Physical geography in Western Canadian education" Canadian Council for Geographic Education

Non-Refereed Publications

Dates	Activity (Name of text and publishing organization)
2024	The Canada IGC 2028 – Bid Development Committee (2024). <i>38th International Geological Congress (IGC) 2028: Canada (Calgary) Bid Submission</i> . Published by The Canada IGC 2028 Foundation and Tourism Calgary.
2023	"Experimental Science for Elementary Education: Course reader" course redesign to match curriculum change, Mount Royal University, Calgary
2022	"EAS2010 Introduction to Physical Geology" full course designed for online learning, Northern Lakes College
2021	"ENVS2000 Introduction to Environmental Science" full course designed for online learning, Northern Lakes College
2008	"Habitat in the Balance: An online program for developing students' decision-making skills" with David Lunn, Science Council of Manitoba Journal
2003 to 2004	"Science student teachers teach teachers computers," "MT Science supports ATASC," "MT Science and English ON-LINE!," and "What's new in science teacher education" Division of Teacher Preparation, University of Calgary
2004	"Science Focus 10: Science-technology-society" with David Gue et al., McGraw-Hill Ryerson Ltd.
2002	"Science Focus 9: Science-technology-society" with Jacqueline Martin et al., McGraw-Hill Ryerson Ltd.
2000	"Customizing PowerPoint presentations for educators" University of Calgary Gazette
1997	"Investigation of the appropriateness of 'scil' microcomputers in science and mathematics in grades K -- 12 and the training of teachers" Parallax
1990	"Integrating by using application software" in Computer integration guide: Mathematics grades 4-9, Alberta Education Curriculum Branch
1989	"Structures and design" and "Evidence of erosion" in Science Directions 7, John Wiley and Sons
1986	"A highway frontage conceptual design, Strathmore, Alberta" with D. Campbell, R. Cheung, S. Cole, J. Lopes, E. Strzembicka, and C. Tanguay-McNulty, Faculty of Environmental Design, University of Calgary
1993 to 1994	"Entering the Internet," "I'm connected... now what?," "Growing interest current issues," and "Your web" in Instructional Materials Center "Help at Hand" Calgary Roman Catholic Separate Schools

1993 to 1994	"Node surfing on the Internet" and "Grade 9 achievement results" The Alberta Science Teacher
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Refereed Conference Presentations

Dates	Activity (Name of article and journal)
1999	"The great evolution debate of 1860: A dramatization" with Carey Booth and Doug Murray, Proceedings of the Fourth International Conference on The History and Philosophy of Science and Science Teaching
1984	"Bisequa soils and fragipans: Development conditions in the Kananaskis valley, Alberta" with Arthur Limbird, Current Research by Western Canadian Geographers: The Cariboo College Papers

Research Grants

Dates	Activity (Name of grant and research)
2022 to 2023	Engaging Climate Change in Seminary Curriculum, from the Dialogue on Science, Ethics, & Religion (DoSER) grant of the American Association for the Advancement of Science (AAAS)
2004 to 2005	Canadian Council for Geographic Education to analyze Physical Geography content alignment with curricula in Canadian universities and schools
1997 to 2000, 2004	Graduate Research Scholarships (five) to develop instruments for the analysis of university Science Education praxis
1995	Prime Minister's Award for Teaching Excellence in Science, Technology and Mathematics, Prairie Region, to study science education innovation sharing

ACADEMIC AND PROFESSIONAL PRESENTATIONS

Dates	Name of Presentation to Name of Organization
2024	"Bio-geoscience research and the undergraduate: Prudence in environmental studies," with Sierra Menchini-McHugh and Lucas Cusanelli to Ambrose Research Conference
2024	"Science of Astronomy Star Party," Camp Jubilee, Girl Guides, Cochrane
2024	"Earth Day: Planet vs. plastic!" student-public event, Ambrose University
2024	"Big bang cosmology: Theory, evidence, faith" to Ambrose University IND 287 Science and Faith class
2023	Talk on the messages in "light" for Awaken Church, Calgary
2023	Star of Bethlehem: Message in suns and worlds" to Ambrose University, Canadian Scientific and Christian Affiliation grant
2023	"Science of Astronomy Star Party," Camp Jubilee, Girl Guides, Cochrane
2023	"Earth Day: Faith and Science" student-public event, Ambrose University
2023	Faculty Panel on Climate Change in Research and Teaching, with Dr. Beth Stovell, Derek Cook, Dr. Murray MacTavish, Dr. Sherry Martens, to Ambrose Research Conference

2023	"Climate Change and the Christian University: Geo-environmental Education Leads to Action," with Sierra Menchini-McHugh and Lucas Cusanelli to Ambrose Research Conference
2022	"Safe solar observing and other Astronomical science tips" to Calgary Public Library, Nose Hill
2022	"Winter's Star Party," Calgary French and International School
2022	Star of Bethlehem: Observed in Planets and Stars" to Ambrose University, Canadian Scientific and Christian Affiliation grant
2022	"Ambrose Seminary and Science Department 2022 Star Party" for TH 627 All Things Now Living: Theology and Earth in Conversation and PT 501, Personal Formation and Development, Ambrose University
2022	"Residence 2022 Star Party and chat" for Residence, Mount Royal University
2022	"Campus 2022 Star Party and chat" for the Department of Chemistry and Physics, and related Astronomy classes, Mount Royal University
2022	"Resilient people, Seminary students ready for changes in our climate" for TH 627 All Things Now Living: Theology and Earth in Conversation, Ambrose University
2022	"Ask a Prof. about Weather, Climate, Environment, Biodiversity, etc." Writers Guild of Alberta (WGA) Annual Conference 2022: Shifting Creative Gears, June 5, hybrid format in Edmonton, Calgary, Lethbridge, and Fort McMurray, Calgary Central Library in-person and streamed networking
2022	"Climate change science in relation to biblical justice and ministry contexts," two classes for BT 601 Biblical Theology of Justice, Ambrose University
2022	"Ecosystem Management Science: On-line learning leading to innovation" with Sarah Ritter, and Annica Howe to Ambrose Research Conference
2021	"Fall Astronomy" to 250th Calgary Pathfinders/Girl Guides
2021	"Fall Astronomy" to 78th Calgary Pathfinders/Girl Guides
2021	"Astronomy of the night sky and Planets" to Calgary Public Library, Nose Hill
2021	"Earth and space science integration" with Carly Russell, Gregory Lee, and Kimberly Giebler to Ambrose Research Conference
2021	"Big bang cosmology: Theory, evidence, faith" to Ambrose University IND 287 Science and Faith class
2020	"Christmas Star" to Canadian Scientific & Christian Affiliation, online streaming and YouTube, Canadian Scientific and Christian Affiliation grant
2020	"Close Reading: Images" Teaching and Learning Joint Session, Ambrose University Professional Development Day
2019	"Star of Bethlehem: The Magi's fireball?" to Ambrose University, Canadian Scientific and Christian Affiliation grant
2019	"Earth and space science education underexplored" with Keegan Harrison, Janelle Slingerland, and Isaac Steffan to Ambrose Research Conference
2019	"Environment or society" to Ambrose University SO 220 Social Problems class
2019	"Science and music" to Ambrose University MU 100 Introduction to Music class
2019	"Big bang cosmology: Theory, evidence, faith" to Ambrose University IND 287 Science and Faith class

2018	"Star of Bethlehem: Comet or not?" to Ambrose University, Canadian Scientific and Christian Affiliation grant
2018	"Space for all learners: Undergraduate astronomy" to The Royal Astronomical Society of Canada 150th Annual General Assembly
2018	"Tomorrow's pedagogy in earth and space science: Integrating and learning from academic disciplines" with Kara Friesen, Daniel Osah, Janelle Slingerland, and Isaac Steffan to Ambrose Research Conference
2018	"Controversies in science: The universal questions" (two-part lecture) to Ambrose University SC 215 Controversies in Science class
2018	"Star of Bethlehem: Earth and space science" to Ambrose University Chapel
2017	"Environmental problems: Social reaction to earth science questions" to Ambrose University SO 220 Social Problems class
2017	"Exploring space badge" to 330th Calgary Brownies
2017	"Rock families: Igneous, sedimentary, and metamorphic" to Prince of Peace Lutheran School, Calgary
2017	"Unconventional pedagogy in earth and space science: The power of narrative and story" with Ethan Wiskar and Benjamin Wood to Ambrose Research Conference
2017	"Evidence of the big bang: Fire-works hypothesis faith becoming scientific theory" to Ambrose University IND 287 Science and Faith
2016	"The science-faith conundrum: Considerations for reconciling conflict about the natural world" to Ambrose University Chapel
2016	"Unconventional pedagogy in earth and space science: Experiential, authentic inquiry in context" with Elanta Algadizs, Madeline Strandberg, Ross Van Housen, and Kaitlin Vanderveen to Ambrose Research Conference
2015	"Unconventional pedagogy in earth and space science: Open-ended, authentic inquiry in context" with Brittany Davis and Richard Charter to Ambrose Research Conference
2013	"University of Calgary open house, campus fair: Science; splash, bang, whirr" with Catherine Bagnell to A-Channel Breakfast Television Program
2012	"Advancing environmental education in pre-service teacher education" to Alberta Council for Environmental Education and Mount Royal University
2007	"E-learning with the Energy Literacy Series" with Bob Constantin to Alberta Teachers' Association Science Council Conference
2007	"Teaching activities for climate change" to Alberta Teachers' Association Science Council Conference
2006	"Sustainable energy development and the environment: Educational outreach" Imperial Oil
2005	"Teaching climate change science" and "A new energy literacy" to Ontario Association of Geography and Environmental Educators
2004	"Space exploration: Astronomy in Alberta" with Don Hladiuk to The Alberta Teachers' Association Convention and with Colin Glover to Calgary Science Centre
2004	"Science olympics to enrich teaching" to The Alberta Teachers' Association Convention
2003	"Astronomy in Alberta" and "Science olympics to enrich teaching" to South Western Alberta Teachers' Convention Association

2002	"Enriching the STS emphasis" to class of Dr. G. Jardine, University of Calgary
2002	"Magic science of nature" to The Gifted Centre, University of Calgary
2002 to 2003	"Surviving space exploration: Resource boosters" with Don Hladiuk to Alberta Teachers' Association Science Council Conference
2002 to 2003	"Trying on science software" with Gary Raab to The City of Calgary Teacher's Convention
2001	"Teacher images of the intent of science curriculum policy: Novice teachers at work in the classroom" with Kristen Foulkes, David Nickell, and Scott Reiling to Annual Conference of the Western Canadian Association for Student Teaching
2001	"Astronomy for the new curriculum: Content, context, and method" with Don Hladiuk to Alberta Teachers' Association Science Council Conference
2001	"Trying on science software for size: Free Alberta Learning resources" with Gary Raab to Alberta Teachers' Association Science Council Conference
1998	"The lab from emphasis to STSE: Catalyst for good science" with D. Frew, D. Margach, M. McCarthy, L. McClelland, and D. Roberts to Alberta Teachers' Association Science Council Conference
1998	"Teacher images of the intent of science curriculum policy: Teachers at work in the classroom" to Annual Conference of the National Association for Research in Science Teaching
1998	"Teacher images of the intent of science curriculum policy: Experienced and novice teachers at work" to XXVI Conference of the Canadian Society for the Study of Education
1997	"Technology (S.T. and S.T.S.) in Alberta's science curriculum" with D. Roberts and L. McClelland to Alberta Teachers' Association Science Council Conference
1997	"Teaching S.T. and S.T.S. in Alberta's new science curriculum" with D. Roberts, L. McClelland, M. Lewis, and S. Searle to Alberta Teachers' Association Science Council Conference
1997	"Science technology in a robotic brain" to Alberta Teachers' Association Science Council Conference
1997 to 1999, 2003	"Sky science: Astronomy" with Don Hladiuk to Calgary Science Centre
1997 to 2003	"Morality: Developing an informed conscience" to Order of Christian Initiation of Adults
1996	"Zap some life into your electricity unit" with Bev Cridland to Alberta Teachers' Association Science Council Conference
1996	"Sky science: Astronomy" with Don Hladiuk to Alberta Teachers' Association Science Council Conference
1996	"Putting the STS in the micro-organism unit" with Janet Robertson to Alberta Teachers' Association Science Council Conference
1996 to 2002	"Teaching excellence" to classes of Dr. D. Jones, University of Calgary
1995	"Practical Ideas and materials for Grade 7 microbiology, blood & bugs" with Janet Robertson to Alberta Teachers' Association Science Council Conference
1994	"Science probe fun inspired by the IBM Personal Science Lab" to Alberta Teachers' Association Computer Council Conference

1992 to 1994	"Integration of computer and multimedia technology into the teaching of science and other disciplines" to multiple classes, University of Calgary
1991, 1993, 1995	"The innovative Amiga classroom," "Multi-media in education," and "Cross platform computing" to Amiga Computer Expo
1991	"Don't panic, how to survive teaching computers" to Alberta Teachers' Association Business Education Council Conference
1991	"Junior high multimedia for a new curriculum" to Alberta Teachers' Association Science Council Conference
1991	"Beyond the mouse: Digitizing, video multimedia, laserdisc, and other scary things made simple " to Alberta Teachers' Association Fine Arts Council Conference
1990	"Discovering mathematics through technology" to National Council of Teachers of Mathematics Conference
1989	"Structures and design: The new technology" to Alberta Teachers' Association Science Council Conference

PROFESSIONAL MEMBERSHIPS, QUALIFICATIONS and EXPERIENCE [overlap with "Academic"]

Professional Memberships [in context of work]
<p>Council of Chairs of Canadian Earth Science Departments (CCCESD)</p> <ul style="list-style-type: none"> - International Geological Congress (IGC) 2028 Foundation – Bid Development Committee <p>Royal Astronomical Society of Canada (RASC) Halifax and Calgary chapter [current]</p> <p>Society for Teaching and Learning in Higher Education (STLHE)</p> <p>American Educational Research Association (AERA)</p> <p>North American Association for Environmental Education (NAEE)</p> <p>National Association for Research in Science Teaching (NARST)</p> <p>Canadian Society for the Study of Education (CSSE);</p> <ul style="list-style-type: none"> - Canadian Association for Curriculum Studies (CACS), and - Canadian Association for Teacher Education (CATE) <p>Kappa Delta Pi (KDP); Omicron Omicron Chapter of Calgary</p> <p>Phi Delta Kappa (PDK)</p> <p>Canadian Society of Soil Science (CSSS)</p> <p>Canadian Association of Geographers (CAG)</p> <p>Knights of Columbus (KofC), St. Luke's Church Chapter</p> <p>Alberta Teachers' Association (ATA);</p> <ul style="list-style-type: none"> - ATA Science Council, and ATA Computer Council

Professional Qualifications
Permanent Professional Teaching Certificate, K-12 in all subject areas, Alberta
<p>Awards and honours;</p> <p>nominated Instructor Excellence Award, Education Students Association, University of Calgary, 2003,</p> <p>nominated Faculty of Graduate Studies Achievement Award, University of Calgary, 2003,</p> <p>Prime Minister's Award for Teaching Excellence in Science, Technology and Mathematics</p> <ul style="list-style-type: none"> – Prairie Region, Government of Canada, 1995, <p>Provincial Excellence in Teaching Award, Government of Alberta, 1994,</p>

Teacher Plus Award for Distinguished Teaching, Calgary Catholic School District, 1993,
Activities Award, Graduate Students' Association, University of Calgary, 1986.

Professional Experience

Consultant to schools, academic, corporate, and not-for-profit organizations 1996 to present;
school evaluation (Calgary Jewish Academy, Calgary Science School),
content delivery expertise (McGraw-Hill Ryerson Ltd., Six Red Marbles),
new project plan, development, delivery, management, evaluation (TC Energy, SEEDS Foundation),
subject matter expert (Green Learning Canada Foundation), and others.

Professional development in-service workshops on teaching to instructional colleagues and staff;
"Electromagnetic energy fun" Department of Chemistry and Physics, Mount Royal University, 2022,
problem-based learning for University of Calgary teacher preparation faculty 2002 to 2004,
introducing technology to colleagues for University of Calgary novice teachers 2002 to 2003,
science instruction enrichment practices for University of Calgary novice teachers 2002,
science instruction enrichment practices for Calgary Jewish Academy teachers 2002,
teaching with technology for University of Calgary faculty 2001,
science instruction enrichment practices for Calgary Separate School District teachers 1991 to 1992,
teaching with technology for Calgary Separate School District teachers 1990 to 1995, and others.

Textbook and educational media reviewer and/or editor 1998 to present;
undergraduate geography textbook for John Wiley and Sons publishing, and Macmillan Learning
environmental science, biology, and chemistry textbooks for McGraw-Hill Ryerson Ltd. publishing,
digital media for Six Red Marbles publishing,
peer review for The International Electronic Journal for Leadership in Learning (IEJLL),
script review for Calgary Science Centre astronomy star-show, and others.

Research projects (additional to my own);

assistant, University of Calgary, Faculty of Education, The science-technology curriculum project,
Dr. Douglas A. Roberts, principal investigator, SSHRCC Grant #809-96-0005, 1996 to 2001,
researcher, University of Calgary, Faculty of Education, Online secondary science community:
Use of Blackboard (Bb) software in the Master of Teaching Program,
Dr. W. Bruce Clark, supervisor. Part of Imperial Oil's MT3 Grant. 2003 to 2004,
researcher, University of Calgary, Faculty of Education, The computer integration project,
Dr. William Hunter, principal investigator, 1989 to 1992,
research intern, University of Calgary, Geography, Urban heat island project,
Dr. Lawrence C. Nkemdirim, principal investigator, 1983,
research intern, University of Calgary, Geography, S.Y.M.A.P. 3-D well plotting of geologic features,
Dr. Nigel Waters, principal investigator, 1983,
research intern, University of Calgary, Biology, Wild oat dispersal electron microscopy,
Dr. Ed Yeung, principal investigator, 1982,
assistant, Royal Astronomical Society of Canada, Light Pollution study, 1977, and others.

Newsletter editor to schools, academic, associations, corporate, and not-for-profit organizations;
University of Calgary Secondary Science Teacher Education 2001 to 2004,
Alberta Teachers' Association Science Council Junior High Science Regional 1994 and 1996,
Canadian Association of Principals Conference 1991,
Western Canada Educational Administrators' Conference 1989,
University of Calgary Graduate Students' Association 1985 to 1986,
Amiga Users of Calgary 1987 to 1991, and others.

Conference organization, guest speaker series, fieldtutorials, public outreach, etc. 1984 to present;

science engagement public outreach geology and star parties for Ambrose University, MRU, RASC speaker series for University of Calgary Graduate Students' Association and Ambrose University, science engagement public outreach open house component for University of Calgary, conference organization for Alberta Teachers' Association (Science, Computers, Principals), science engagement public outreach for Solar Energy Society of Canada, and others.

Service on governance boards, executive councils, and committees;
Council of Chairs of Canadian Earth Science Departments (International Congress bid ctee.), 2023,
Science and Technology Faculty Council member at Mount Royal University, 2022 – 2023,
University of Calgary, Master of Environmental Design degree supervisory committee, 2016,
Alberta Teachers' Association Science Council provincial executive and science regional president,
Calgary Separate School District committees (instruction, technology, science, assessment, etc.),
University of Calgary Alumni Association director and committees,
Kappa Delta Pi executive committee,
University of Calgary Board of Governors governor and committees,
University of Calgary Graduate Students' Association president,
University of Calgary Students' Union council and committees, and others.