

VALENTIN HENRY SCHAEFER

ACADEMIC AND PROFESSIONAL CREDENTIALS

Ph.D. Ecology	1979 Simon Fraser University at Burnaby, British Columbia
M.Sc. Ecology	1974 University of Toronto at Toronto, Ontario
B.Sc. Biology	1972 McGill University at Montreal, Quebec
R.P. Bio. (037)	1988-2023 College of Applied Biology of British Columbia

AWARDS

- University of Victoria, Social Sciences Dean's Community Service Award 2014
- Government of British Columbia Minister's Environmental Award 1997
- British Columbia Society of Landscape Architects Service Award 1997
- Vancouver Natural History Society Davidson Conservation Award 1995
- Vancouver Natural History Society Garibaldi Club Service Award 1993
- Simon Fraser University President's Research Stipend 1978
- Simon Fraser University Open Graduate Scholarship 1977
- Ontario Graduate Fellowship 1973

POSITIONS HELD

01/2023-present *Adjunct Faculty, School of Environmental Studies, University of Victoria, Victoria, BC*

05/2019-present *Emeritus Director, Restoration of Natural Systems Program, University of Victoria, Victoria, BC*

09/2005-2019 *Academic Administrator (formerly Faculty Coordinator), Restoration of Natural Systems Program and Ecological Restoration Program, School of Environmental Studies, University of Victoria, Victoria, BC; Teaching three courses per year (of ER312A Field Skills I, Urban Restoration ER 331, Ecosystems ER 325, Special Project ER 390) , student admission and advising, program planning, curriculum development, developing strategic directions indicated by the RNS Advisory committee, and liaison with internal and external resources in the area of restoration, supervise graduate students.*

08/1997-08/2005 *Executive Director, Centre for Environmental Studies and Urban Ecology, Douglas College, New Westminster, BC Instrumental in developing the Habitat Restoration Program; developed and managed projects of the Institute of Urban Ecology.*

09/1995-08/1997 *Acting Director, Douglas College Institute of Urban Ecology. Managed projects on urban green space enhancements and educational initiatives on interpreting nature in the city.*

01/1983-12/1993 *Project Supervisor, Douglas College*. Conducted studies of urban ravines in the BC Lower Mainland, growth management and urban ecology of Queensborough, New Westminster, and others.

08/1981-08/2005 *Full-time Faculty, Biology, Douglas College*. Taught and developed courses in Biology - Introductory Biology BIO 110, 210, Ecology BIO 322, Genetics BIO 320, Anatomy and Physiology BIO 103, 203, and Interdisciplinary Studies - Environmental Perspectives IDST 102.

08/90-07/91 *Visiting Professor, School of Environmental Studies, University of Victoria*. Developed and taught ES 400 Urban Ecology and ES 300 Sustainable Urban Lifestyle Options courses; developed educational materials for environmental issues topics.

01/1986-12/1987 *Department Chair, Science and Mathematics, Douglas College*. Administered curriculum, personnel and an annual budget of \$1,100,000 in the Department of Science and Mathematics (Biology, Chemistry, Computing Science, Geology, Mathematics, Physics); department had annual student course enrolments of 3,500 with 33 faculty and staff.

01/1979-08/1979 *Sessional Instructor, Douglas College*. Taught Introductory Biology BIO 110, 210, Human Anatomy and Physiology BIO 103, 203.

09/1975-12/1978 Teaching Assistant, Simon Fraser University, Burnaby, BC. Conducted tutorials or laboratories in Introductory Biology, Animal Physiology, Vertebrate Evolution, and Ornithology.

09/1974-05/1975 Laboratory Coordinator. Carleton University, Ottawa, ON. Coordinated and instructed laboratory portion of second-year Genetics

09/1972-05/1974 Laboratory Demonstrator, University of Toronto, Toronto, ON. Supervised and instructed Introductory Biology, Genetics, and Ecology laboratories.

04/1972-08/1972 Research Assistant, McGill University, Montreal, QC. Conducted studies of bird song, territoriality, neural control of bird song.

PROJECT DESIGN AND COORDINATION

University of Victoria. 2018. Worked with Continuing Studies in developing preparatory Biology course for Restoration of Natural Systems Diploma Program. ER099 Biology and Natural History.

Stewardship Centre for BC. 2016. Greening Shorelines, Enhancing Resilience in a Changing Climate: development and delivery of Green Shores™ education and training for shoreline decision-makers. With DG Blair, ED SCBC. Funded by NRCan.

University of Victoria. 2016. University of Victoria Sensitive Ecosystems Inventory.

University of Victoria. 2016. University of Victoria Invasive Species Management Strategy.

University of Victoria. 2011-2016 Worked with Continuing Studies in developing five courses and recruiting instructors for Ecological Restoration Professional Specialization Certificate: ER501 Design Principles for Natural Processes, ER502 Design Principles for Native Plant

Propagation, ER503 Restoration Ecology, ER504 Invasive Species and Novel Ecosystems and ER505 Climate Change and Ecological Restoration

University of Victoria and City of Victoria. 2014. Rain Gardens.

University of Victoria. 2013. Environmental Stewardship Community of Practice Workshop.
Funded by SSHRC (Social Sciences and Humanities Research Council)

District of Saanich. 2012. Invasive Species Management Strategy.

BC Ministry of Environment. 2010-2012. Environmental mitigation policy development staff support.

BC Ministry of the Environment/University of Victoria. 2009. Northern Mountain Caribou Population Dynamics Study.

BC Ministry of the Environment/University of Victoria. 2009. Second Growth Strategy for Species at Risk Management.

BC Ministry of Energy, Mines and Petroleum Resources. 2005-2009. Grasses of Northern Interior BC. Resource for ecological restoration with appropriate grass species and techniques.

University of Victoria. 2007-2008. Natural Features Study and Campus Tree Inventory. GPS referencing of plant associations, specimen trees, streams and other natural features of Gordon Head Campus with recommendations for ecological restoration and management.

BC E-Team and other partners. 1996 - present. Green Links. A program to increase biodiversity and the viability of environmentally sensitive areas in the city.

Vancouver Foundation, Job Creation Partnership Program. 2002. Nature's Services. Promoting the cumulative benefits of biodiversity in small spaces such as backyards in maintaining environmental quality in cities.

Job Creation Partnership Program. 2002. Special Places. Documenting extent and biological value of special use lands such as cemeteries, golf courses and university campuses in cities.

BC Ministry of Advanced Education, and Centre for Curriculum Transfer and Technology. 2002. BC Environmental Field Schools Reference Catalogue.

BC Ministry of Advanced Education, and Centre for Curriculum Transfer and Technology. 2000. BC Graduates are Good for Business (inventory of environmental programs and specializations in BC).

Gravel Pit Operators. 1999-2005. Habitat restoration in aggregate mining sites in Coquitlam, BC.

Greenhouse Operators and Delta Farmland and Wildlife Trust. 2000. Hedgerow habitat inventory, design and creation.

Environment Canada, Action 21. 1997-98. Green Links native plant propagation. A program to have native plants raised in schools, including a curriculum on the species and ecosystem values they provide.

Real Estate Foundation of BC. 1998. WEL-USE, a GIS online land use database.

BC Ministry of Skills, Training and Labour. 1996. Design and production of Post-secondary Curriculum - Environmental Information Systems - Home Based Instructional Module.

Burrard Inlet Environmental Action Program. 1995. Development of an EcoTour Kit for Burrard Inlet.

Environmental Partners Fund. 1991-95. Restoration of Camosun Bog and Urban Ravine Clean-up and Enhancement. Supervision of the Vancouver Natural History Society contribution to the bog restoration - groundwater sampling, monitoring of sphagnum spread, transplanting of sphagnum and removal of overgrowth. The partnership was with the Greater Vancouver Regional District Parks. Supervision of clean-up of 25 urban ravines and enhancement of Renfrew Ravine, Vancouver, and Miller Ravine, Coquitlam. The partnership was with the Douglas College Institute of Urban Ecology.

BC Ministry of Environment, BC Ministry of Skills, Training and Labour, and BC Centre for Curriculum Development. 1994. Coordinated production of Post-secondary curriculum - "Perspectives on the Environment: Creating a Sustainable Society."

Challenge '93, '94. 1993-1994. Produced a description of urban habitats.

Challenge '89. 1989. Produced a citizen's guide outlining what an individual can do in the home to protect the environment - solid waste, liquid waste, pesticides, toxic chemicals, and air quality. With A. Peacock.

Canada Works. 1988. History, policy manual and archives of the Federation of BC Naturalists.

Challenge '87. 1987. Environmental Issues in the Lower Mainland of British Columbia. Review of land use, waste disposal, toxic chemicals, water quality, and air quality. With A. Peacock and D. Wilson.

Job Development (CEIC). 1986. Joint supervisor under a grant to Greater Vancouver Regional District. Acted as consultant throughout 1-year Naturalist Training Program. Coordinated the production of a training package to be distributed across Canada. With J. Switzer.

Challenge '86. 1986. A Nature Guide to Urban Parks. Described natural history of 16 urban parks east of Vancouver, including 80 nature activities suitable for children. With A. Peacock.

Vancouver Centennial Commission. 1986. Production of pamphlet on natural history of selected lands entitled: "The Living Natural History of Vancouver.

Public Conservation Assistance Fund. 1984. Clean-up of Maplewood Mudflats. Obtained funding and arranged for volunteer labour by KATIMAVIK and the Vancouver Natural History Society.

Challenge '85. 1985. The Natural History of New Westminster. Located undeveloped natural areas in the city and conducted a brief biophysical inventory of each. With A. Peacock.

Canada Works. 1985. A Biophysical Inventory of Burnaby Lake Regional Park. Categorized and mapped vegetation. Project developed in conjunction with the Greater Vancouver Regional District. With A. Peacock.

Canada Works. 1985. Biophysical Inventory of Belcarra Regional Park Underwater Marine Park. Species and community identification of intertidal/subtidal organisms in the area of a proposed underwater marine park for Belcarra. Project developed in conjunction with the Greater Vancouver Regional District. With A. Peacock.

Environment 2000 - Environment Canada. 1984. The Natural Environment of Deer Lake. Complete survey of vegetation, bird life, fish, and plankton of Deer Lake, Burnaby, BC Project formulated in conjunction with the Municipality of Burnaby's Planning Department and Department of Environmental Health for the purpose of lake management. With A. Peacock.

STUDENT TRAINING

As Supervisor:

Elves, Andrew. 2017. Repeat Multispectral Imaging of Sphagnum Canopies in Burns Bog, Delta, BC: Measuring Spectral Response of Three Indicator Species to a Fluctuating Water Table. MSc Thesis Co-supervisor with Richard Hebda, University of Victoria

Huggard, Maureen. 2016. With Na-Cho Nyak Dun (NND) First Nation in Mayo, Yukon to develop and implement a strategy to revegetate mine tailing sites (lead, zinc). M.Sc. Thesis Co-supervisor with Richard Hebda, University of Victoria.

Orr, Catherine. 2015. The Use of Constructed Ecosystems in Managing Urban Hydrology. MSc Thesis. University of Victoria

Hernould, Cara. 2015. Not completed. Urban rain gardens. MSc Thesis. University of Victoria

Sauter, Jennifer. 2014. Creating a Land Inventory and Urban Food Landscape on Vancouver Island, British Columbia. MA Thesis. University of Victoria

Duncan, Sara. 2011. Reindeer Lichen Transplant Feasibility for Reclamation of Lichen Ecosites on Alberta's Athabasca Oil Sand Mines. BC MSc Thesis, University of Victoria

Harrop-Archibald, Hilary. 2010. Soil Nutrient and Vegetation Response to Ecological Restoration in a Coastal Douglas-fir Plantation on Galiano Island, BC MSc Thesis, University of Victoria

Townsend, Lise. 2009. Urban Watershed Health and Resilience, Evaluated Through Land Use History and Eco-hydrology in Swan Lake Watershed (Saanich, BC). MSc Thesis, University of Victoria

As Supervisory Committee Member:

Yamaguichi, Marc. 2018. Low Impact Development: Citizen chronicles from the Urban Underground. MA Environmental Education and Communication. School of Environment and Sustainability. Royal Roads University. External Examiner.

Sara Brooke Benjamin. 2016. Monitoring and assessment of restoration of Whatcom Creek, WA, ten years after a gasoline spill and fire. M.Sc. Committee Member.

Schooling, Julie. 2014. Characterizing interception loss, stemflow, and throughfall for four urban tree species in a semi-arid climate. MSc Thesis. Thompson Rivers University. Committee Member.

- Burton, Carla. 2012. General Ethnobotany of Nisga'a and Comparison of Dynamics of Plant Classification and Nomenclature. PhD Dissertation. University of Victoria. Committee Member.
- Ailanthus, Caroline. 2012. Restoration Landscaping: An exploration of an emerging field. MSc Thesis. Antioch University, New England. Committee Member.
- Rim, Rokwha. 2010. Improving Biodiversity and Community Well-being in Urban Parks: A comparison of Seoul Forest Park (Seoul, Korea) and Stanley Park (Vancouver, Canada). , BC MSc Thesis, University of Victoria. Committee Member.
- Huff, Valerie. 2009. From Reclamation to Restoration: Native Grass Species for Revegetation in Northeast British Columbia. , BC. MSc Thesis, University of Victoria. Committee Member.
- Jagger, Susan. 2009. The Influence of Participation in a Community Mapping Project on Grade Four Students' Environmental Worldviews. MA Thesis, University of Victoria. Committee Member.
- Bartley, Glen. 2008. An Ethnoecological Approach to Restoring the Coastal Dune Ecosystem of Tixen and Island View Beach. MSc Thesis, University of Victoria. Committee Member.
- Mooney, Patrick. 2007. A General Model of Avian Biodiversity. PhD Dissertation. University of Michigan. Committee Member.

CONFERENCE, INSTITUTE AND WORKSHOP COORDINATION

UNIVERSITY OF VICTORIA

- World Environmental Education Congress. Culture and Environment: Weaving New Connections. September 9-15, 2017. Vancouver Convention Centre.
- Garry Oak Ecosystem Recovery Team Colloquium. New Ways of Understanding Garry Oak Ecosystems. November 17, 2017. University of Victoria.
- Garry Oak Ecosystem Recovery Team Colloquium. Traditional Practices and New Imperatives. November 18, 2016. University of Victoria.
- Garry Oak Ecosystem Recovery Team Colloquium – Blank Slate Restoration. November 20, 2015. University of Victoria.
- Environmental Stewardship Community of Practice for BC. October 22-23, 2013.
- Restoration 2012: Beyond Borders. May 15-18, 2012.
- BC Water Symposium. August 30-31, 2010.
- Restoration of Coastal Ecosystems. May 26-30, 2010.
- Ecological Restoration and Climate Change. June 19-23, 2009.
- Alien Invasive Species Management. May 22-23, 2008.
- Engagement Strategies for Resource Management. February 4-5, 2008.
- Saving the Pieces – Restoring Species at Risk. June 14-15, 2007.

DOUGLAS COLLEGE

Let it Rain: Managing Rainwater Runoff with Low Impact Development Methods. March 18, 2005.

Vital Signs of Progress: A Symposium on Monitoring the Results of Habitat Restoration. March 31, 2001.

Greening the Gravel Symposium. March 25, 2000.

Working Toward Conservation: A Symposium for the Coquitlam River Watershed. March 26-27, 1999

Green Links Symposium. October 19, 1996. 1996.

RESEARCH

01/94-present Urban ecology – urban biodiversity, patches and connectivity, functional thresholds, invasive species, rain gardens, urban agriculture, urban forest, university campus natural features, ecological memory. (Environmental Studies, University of Victoria and Institute of Urban Ecology, Douglas College and Restoration of Natural Systems Program)

01/14-06/17 "The Functions and Change of Ecological Memory During Urbanization". Part of team of National Natural Science Foundation of China (NSFC). for 3-year project: The proposal was accepted and the project is underway.

08/95-08/05 Green Links: Connectivity in urban areas.

01/93-12/93 Growth Management and Urban Ecology (Institute of Urban Ecology, Douglas College)

01/92-12/92 Urban ravines as green space and community assets (Institute of Urban Ecology)

11/89-12/89 Review of flora and fauna of Stamp Falls Provincial Park (for BC Provincial Parks)

04/84-09-85 Intertidal and subtidal organisms of Belcarra Regional Park (Canada Works Project)

03/85-08/85 Biophysical inventory of Burnaby Lake Regional Park (Canada Works Project)

06/84-11/84 Vegetation, plankton, and animal life of Deer Lake, Burnaby, BC (Environment 2000 project)

09/75-09/78 Environmental factors influencing molehill densities (Ph.D. Thesis)

09/72-05/74 Geographic variation in the placement and structure of oriole nests (Icteridae) (M.Sc. Thesis)

09/71-05/72 Effects of conspecific audio and visual cues on nest construction in finches (Fringillidae) (Undergraduate Thesis)

CONFERENCE PRESENTATIONS, PANELS AND ADDRESSES

Schaefer, V. 2019. The Futures of Ecological Restoration: Perspectives on where we are coming from and where we are going. University of Victoria Environmental Restoration Volunteer Network. March 26, 2019. Victoria BC

- Schaefer, V. 2018. Restoration projects on University of Victoria Campus. Victoria College Alumni Chapter (VCAC) Social Luncheon. November 1, 2018. Victoria, BC
- Schaefer, V. 2018 A Qualitative Assessment of Urban Ecosystem Resilience Using a Habitat Quality Index. SERWC Conference. February 15, 2018. Vancouver, BC.
- Schaefer, V. 2017. Urban Ecology in Oxford, England and San Francisco, California. University of Victoria. October 24, 2017.
- Schaefer, V. 2017. Ecological restoration in cities: The challenges of teaching about novel ecosystems and layered landscapes. World Environmental Education Congress. September 2017. Vancouver, BC
- Schaefer, V. 2017. Metaphors for teaching concepts in ecological restoration in cities. World Environmental Education Congress. September 2017. Vancouver, BC
- Schaefer, V. 2017. Complexities in Restoring Garry Oak Ecosystems. Bateman Centre Lecture. June 22, 2017. Victoria, BC
- Schaefer, V. 2017. The Best Way We Know How: Science Informed Environmental Stewardship. A river runs through it: the value of scientifically defensible, evidence-based decision-making for effective stewardship – Panel presentation. June 13, 2017. Vancouver, BC
- Schaefer, V. 2017. Current Schaefer research highlights. Restoration Ecology Graduate Environmental Network. May 24, 2017. Galiano, BC
- Schaefer, V. 2017. Canadian Society for Ecology and Evolution (CSEE), Urban Ecology Symposium, Accelerating urban ecology in Canada: Identifying current research approaches, gaps, and needs in Canadian cities. Incorporating novel ecosystems and layered landscapes for ecological restoration in cities. May 7-11, 2017. Victoria, BC
- Schaefer, V. 2017. Ecological Restoration in Cities. Cranfield University, Cranfield, UK. February 10, 2017.
- Schaefer, V. 2016. Friends and Foes of Garry Oak Ecosystems: Impacts of climate change on symbiotic relationships with GOE species. Garry Oak Ecosystem Recovery Team Colloquium. November 18, 2016. Victoria, BC.
- Schaefer, V. 2016. Adopt-A-Watershed: Urban Leadership in Aquatic Invasive Species Workshop Agenda. October 27th, 2016. Victoria, BC.
- Schaefer, V. 2016. Friends and Foes of Garry Oak Ecosystems: Ecological memory, community thresholds and metacommunities. Keynote. Nature BC AGM. May 14, 2016. Comox, BC.
- Schaefer, V. 2016. Bird Friendly Design. Cascadia Green Building Council. April 21, 2016. Vancouver, BC.
- Schaefer, V. 2016. Going beyond regulations to green our shorelines. Salish Sea Ecosystem Conference: Strengthening Connections in Changing Times. April 14, 2016. Vancouver, BC.
- Schaefer, V. 2015. Rain gardens and blank slate restoration. Garry Oak Ecosystem Recovery Team Colloquium. November 20, 2015.

- Schaefer, V. 2015. Street Trees and the Urban Forest. Restoration of Natural Systems Program Speaker Series, University of Victoria. October 15, 2015.
- Schaefer, V. 2015. Using problem-based learning to teach ecological restoration. Society for Ecological Restoration World Congress, Manchester, UK. August 25, 2015.
- Schaefer, V. 2015. Soil micro-arthropods as indicator species of a functional ecological community. Society for Ecological Restoration World Congress, Manchester, UK. August 25, 2015.
- Schaefer, V. Victoria's Urban Forest. Victoria Horticultural Society. March 2, 2015.
- Schaefer, V. 2014. Urban Forests as Novel Ecosystems. Canadian Urban Forest Conference. Victoria, BC. September 29, 2014.
- Schaefer, V. 2014. Listening to Nature: Ecological Restoration and the Uniqueness of Place. School of Environmental Studies Lecture. September 24, 2014.
- Schaefer, V. 2014. Novel Ecosystems. Invasive Species Council of BC AGM. Duncan, BC. June 12, 2014.
- Schaefer, V. 2014. Novel Ecosystems in Ecological Restoration. Association of Professional Biologists of BC. April 25, 2014. Victoria, BC.
- Pivnick, J., Donor, S. and V. Schaefer. 2013. Incorporating Topics that aren't "Distance-Friendly" into an Online Program: One Development Team's Experience. Canadian Association for University Education. Montreal. May 22-25, 2013.
- Schaefer, V. 2012. Urban Restoration Walks. Native Plant Study Group. University of Victoria. January 17, 2013
- Schaefer, V. 2012. Ecoremediation: Using Bacteria, Fungi and Plants to Restore Contaminated Sites. Presentation at Malaspina College to Powell River Community. Powell River. November 19, 2012.
- Schaefer, V. 2012. and J. Miles. Promoting Urban Restoration Through Restoration Walks. with Jessica Miles. Restoration 2012: Beyond Borders. University of Victoria. May 16, 2012.
- Sauter, Jennifer and Valentin Schaefer. 2012. Benefits of Urban Agriculture for Restoration in Cities. Restoration 2012: Beyond Borders. University of Victoria. May 15-17, 2012.
- Schaefer, V. 2012. Environmental Stewardship in Urban Restoration. Symposium Moderator. Restoration 2012: Beyond Borders. University of Victoria. May 15, 2012.
- Schaefer, V. May 2012. Urban Restoration. Habitat Restoration Symposium. From Rainforest to Reef. Association of Professional Biologists Annual Conference. Nelson, BC. May 7, 2012.
- Schaefer, V. February 2012. Building Relationships. *Vision of the Future: Influencing Behavioural Change* Conference. BC Ministry of Environment Staff Conference. Victoria, BC. February 22, 2012.
- Sauter, Jennifer and Valentin Schaefer. 2012. Urban Agriculture Land Inventory in the City of Victoria: Planning for Food Security. CONFOR West 2012: 3rd Annual Graduate Student

- Conference on Forestry and Environmental Sciences in Western North America. February 3, 2012. Canmore, Alberta. Poster Paper.
- Schaefer, V. October 2011. Novel Ecosystems. IPCBC's 2nd Invasive Species Research Forum. Vancouver. October 18, 2011.
- Schaefer, V. March 2011. What's in Your Backyard: Urban Sustainability and Wildlife. University of Victoria Panel Discussion. March 31, 2011.
- Schaefer, V. February 2011. Round Table for the Ecological Health Plan for Metro Vancouver. Vancouver. February 28, 2011.
- Schaefer, V. February 2011. Placemaking: Cool Ideas for Locally Elected Leaders. Columbia Institute for Civic Governance. Harrison Hot Springs, February 25, 2011.
- Schaefer, V. (with A. Schaefer). January 2011. "Barnacles to Birders" presentation to the Victoria Natural History Society. January 11, 2011.
- Schaefer, V. November 2010. Green Links restoration project consultation for Forest Grove Right-of-way restoration by Kinder Morgan, Burnaby. November 9, 2010.
- Schaefer, V. October 2010. Presentation to Saanich Parks volunteers training day. Saanich, BC. October 16, 2010.
- Schaefer, V. October 2010. Beyond Habitat: Tools for a Biodiverse Community. Panel presentation at Gaining Ground Conference. Vancouver, BC. October 4, 2010.
- Schaefer, V. September 2010. Panel presentation at "Conservation Connections". Royal Roads University, Victoria. September 17, 2010.
- Schaefer, V. 2010. Panel presentation at "Green Campus Planning and Urban Biodiversity" by Vancouver Island Branch of the Cascadia Region Green Building Council. University of Victoria, BC. April 9, 2010.
- Schaefer, V. 2010. Presentation on "Philosophy and Perspectives on Urban Ecology" to the Surrey Environmental Advisory Committee in advance of release of Draft Ecosystem Management Project. Surrey, BC. March 24, 2010.
- Schaefer, V. 2009. Rigor, Respect and Relevance in Restoration Education: The Restoration of Natural Systems Diploma and the Native Species and Natural Processes Certificate programs at the University of Victoria. Society for Ecological Restoration International. Perth, Australia. August.
- Schaefer, V. 2009. The Importance of Natural Resource Management Plans in Restoring Urban Parks. Society for Ecological Restoration International. Perth, Australia. August.
- Schaefer, V. August 2009. The Importance of Natural Resource Management Plans in Restoring Urban Parks. Society for Ecological Restoration International. Perth, Australia. August 2009.
- Schaefer, V. June 16, 2009. Metro Vancouver Sustainability by Design Workshop – Roundtable. Chair – Natural Habitat Theme. Vancouver, BC.
- Schaefer, V. April 16, 2009. Metro Vancouver Sustainability by Design Workshop – Roundtable Participant. Vancouver, BC.

- Schaefer, V. March 24, 2009. Metro Vancouver Sustainability by Design Workshop – Roundtable Participant. Vancouver, BC.
- Schaefer, V. Schaefer, V. March 18, 2009. Nature in Vancouver. Field trip for the Western Political Science Association conference. Vancouver, BC.
- Schaefer, V. 2008. (with Lise Townsend, Dan Hegg and Patrick Lucey). The Value of Urban Vegetation for Climate Change Strategy. Gaining Ground . Victoria, BC. May 24, 2008.
- Schaefer, V. 2008. Spaces and Places: Natural Systems Restoration. BC Parks and Recreation Association. Victoria, BC. April 24, 2008.
- Schaefer, V. 2007. Ecological Memory and Restoring Urban Biodiversity. Society for Ecological Restoration. San Jose, CA. August 9, 2007.
- Schaefer, V. and C. Burton. 2007. Collaborating on Restoration Projects. College of Applied Biology Annual Conference. Victoria, BC. May 3, 2007.
- Schaefer, V. 2007. Ecological Memory and Invasive Species. Georgia Basin Puget Sound Research Conference, Vancouver, BC. March 29, 2007.
- Schaefer, V. 2007. Keynote. Endangered Species Restoration. South Coast Conservation Program, Workshop 3. Chilliwack, BC. March 15, 2007.
- Schaefer, V. 2006. Keynote. Biodiversity in Greater Vancouver. Building the Action Plan Workshop: Biodiversity Conservation Strategy for the Greater Vancouver Region. July 13, 2006. Vancouver, BC.
- Schaefer, V. 2004. The Urban Quilt: Comforting City Greenspace. University of Michigan. Natural Resources and Environment Clarence Roy/JJR Lecture. November 15, 2004.
- Schaefer, V. and N. McLean. 2004. Green Space Connections: How to use ecological corridors to strengthen biodiversity and build healthier communities. American Association of Landscape Architects Annual Congress, Salt Lake City, Utah. November 1, 2004.
- Schaefer, V. and N. McLean. 2004. Patch size thresholds and corridor networks: Opportunities for including smaller habitats to maximize biodiversity in Greater Vancouver Society for Ecological Restoration International Conference, Victoria, BC August 24, 2004.
- Schaefer, V. and N. McLean. 2004. The Urban Quilt: Patch sizes and connectivity. Canadian Association of Landscape Architects Annual Congress, St. John's, Newfoundland June 17, 2004.
- Schaefer, V. and N. McLean. 2004. The Urban Quilt: Patch sizes and connectivity. BC Land Summit, Vancouver, BC. May 12, 2004.
- Schaefer, V.H. 2003. The Green Links Project. The Leading Edge: Stewardship and Conservation in Canada. Victoria, BC. July 6, 2003.
- Schaefer, V.H. and N. McLean. 2003. Green Space Connections: Using ecological corridors to strengthen urban biodiversity and build healthier communities. International Federation of Landscape Architects Annual Conference. Calgary, Alberta. May 28.

- Schaefer, V.H. 2003. Green Links and Urban Biodiversity - an Experiment in Connectivity. Georgia Basin/Puget Sound Research Conference. Vancouver, BC. April 1.
- Schaefer, V.H. 2001. Student projects promoting environmental citizenship: Science, writing and community service. Washington Centre for Improving the Quality of Environmental Education. "Improving Undergraduate Education: Teaching and Learning in the Context of Cultural Differences. Seattle, WA February 23.
- Schaefer, V.H. 2000. Green Links: Preserving Park Biodiversity Through Greenways. BC Recreation and Parks Association Symposium 2000: Visions – Strategies for a New Century. Harrison Hot Springs, BC. May 5.
- Schaefer, V.H. 2000. Student Projects Promoting Environmental Citizenship: Linking Curriculum, Community and Industry. Kaleidoscope 2000: innovative Good Practice in Post-Secondary Education. Centre for Curriculum, Transfer and Technology. Vancouver, BC. May 1.
- Schaefer, V.H. 1999. Enhancing Urban Biodiversity through Community Stewardship. Eleventh Annual International Conference of the Society for Ecological Restoration. San Francisco, California. September 26.
- Schaefer, V.H. 1998. Urban Habitat Enhancement through Ecological Connectivity - the Green Links Project. Helping the Land Heal Conference: Ecological Restoration in British Columbia. Victoria, BC November 7.
- Schaefer, V.H. and M. Levy. 1998. Green Links Native Plant Propagation Program. Tenth Annual International Conference of the Society for Ecological Restoration. Austin, Texas. September 28.
- Schaefer, V.H. 1997. Green links and biodiversity - an experiment in connectivity., Ninth Annual International Conference of the Society for Ecological Restoration. Fort Lauderdale, Florida. November 15.
- Schaefer, V.H. 1997. Naturalizing parks and open spaces utilizing biodiversity principles. The 20th Annual Spring Training Seminar. BC Recreation and Parks Association, Langley, BC. March 13.
- Schaefer, V.H. 1997. Green Links, a Greenways Project in the Lower Mainland of British Columbia. Greater Vancouver Regional District Green Zone, Surrey, BC. March 7.
- Schaefer, V.H. 1995. Environmental Program Options at Universities. Workshop at "Making Universities More Sustainable" conference, sponsored by the Quebec Public Information Research Group, Concordia University, Montreal. November 10.
- Schaefer, V.H. 1994. Playing with Ecosystem Miniatures. Presentation at Learning Grounds", sponsored by the Evergreen Foundation. Vancouver, BC. November 5.
- Schaefer, V.H. 1994. Urban Habitats. Presentation at "Campus Ecology - Trillium Project", sponsored by the University of Victoria Environmental Studies Students' Association. March. Victoria.

Schaefer, V.H. 1993. Environmental Citizenship. Presentation at the National Symposium on Business Opportunities for Colleges and Institutes. November 20. Ottawa.

Schaefer, V.H. 1992. Urban Ravines - A Hidden Community Asset. Presentation at the World Congress for Education and Communication on Environment and Development. October 19. Toronto.

PUBLIC PRESENTATION TOPICS

Layered Landscapes
Ecosystem Thresholds
Street Trees
Urban Forest
Ecological Memory
Novel Ecosystems
Invasive Species
Environmental Issues in the Lower Mainland
Environmental Issues in Greater Victoria
Protecting the Environment: What One Person Can Do
Sustainable Urban Lifestyle Options
Urban Ravines - A Hidden Community Asset
Growth Management and Urban Ecology
Urban Biodiversity
School Ground Naturalization
Green Links
Habitat Restoration
Nature's Services
The Urban Quilt – Patch Size and Connectivity
Indicator Species
Invasive Species
Environmental Stewardship

COMMITTEE WORK

UNIVERSITY OF VICTORIA

FACULTY COMMITTEES AND UNIVERSITY WIDE COMMITTEES

BC Environmental Programs Articulation Committee	2008-present
Restoration of Natural Systems Program Advisory Committee	2005-present
Faculty Association. Environmental Studies Faculty Representative.	2016-present
Invasive Species Management Strategy Advisory Committee Meeting	2016-2017
Institute for Studies & Innovation in Community-University Engagement (affiliate)	2014
Sustainability Policy and Plan Advisory Committee	2008-2009
NSERC Earth Sciences and Ecology Scholarship Committee	2008
Social Sciences Curriculum Committee	2008, 2011-2015
Director of Campus Planning and Sustainability Search Committee	2007

Social Sciences and Humanities Research Council (SSHRC) Scholarships 2006

DEPARTMENT COMMITTEES AND RESPONSIBILITIES

Academic Administrator (Faculty Coordinator) RNS Program 2005-present
School of Environmental Studies Curriculum Committee 2008, 2011-2014
School of Environmental Studies Director Search Committee 2010, 2018
Graduate Applications Review Committee. 2007-2009
McTaggart-Cowan Professorship Search Committee. 2008
Helped develop Professional Specialists Certificate in Native
Plants and Natural Processes (now Ecological Restoration)
with Continuing Studies 2006-20012
McTaggart-Cowan Professorship Fund-raising Committee
(Strategic Ecological Recovery Initiative) 2006-2007
Director of School of Environmental Studies Search Committee 2006, 2010

EXTERNAL COMMITTEES

World Environmental Education Congress 2017 2015-present
Local Organizing Committee
Canadian Urban Forest Conference 2014, Victoria 2014
Program Committee

OTHER

Editor, online journal Eco restoration: RNS Student Technical Series. 2018. University of Victoria
Library. <https://journals.uvic.ca/index.php/ecorestoration/about/editorialTeam>

SIMON FRASER UNIVERSITY

Institute for Environmental Learning Steering Committee 2015-2017

UNIVERSITY OF BRITISH COLUMBIA

Design Centre for Sustainability by Design Initiative Research Forum 2009

DOUGLAS COLLEGE

FACULTY POSITIONS

Scholarships and Bursaries Committee 1986-1990; 1991-2005
Legacy Committee 1999-2000
Green Team 1999-2000
Environmental Programs Task Force 1993-1996
Mathematics Program Unit Review 1994-1995

Educational Leave Committee	1991-1993
Chemistry Program Review Committee	1991-1992
Co-op Education Advisory Committee	1990
College Project Development Committee	1989
Department Curriculum Committee	1991-1992, 1989 (Chairman);1986-1987; 1982-1983; 1980-1981
Department Management Committee	(Chairman) 1985-1987; 1983-1984; 1981-1982
Convenor, Biology	1983-1984; 1981-1982
Educational Policy and Planning Committee	1984-1985
Department Professional Development Committee	1984-1985; 1991-1993
MANAGEMENT POSITIONS	
Department as a Whole (Chair)	1986-1987
Division Management Committee	1986-1987
Management Forum	1986-1987
College Curriculum and Coordinating Committee	1986-1987
DOUGLAS COLLEGE FOUNDATION	
Internal Campaign Committee (Co-Chairman)	1988-1989
DOUGLAS COLLEGE INSTITUTE OF URBAN ECOLOGY	
Advisory Committee	1992-2005
Internal Steering Committee	1982-1984
LANGARA COLLEGE	
Wetlands Ecology Course Advisory Committee	1996-1997
SOCIETY FOR ECOLOGICAL RESTORATION, BC CHAPTER	
Board of Directors	2006-2014
GARRY OAK RESTORATION PROJECT	
Steering Committee	2006-2010
GARRY OAK ECOSYSTEM RECOVERY TEAM	
Board of Directors (Chair 2012-2018)	2010-2018
COASTAL INVASIVE SPECIES COMMITTEE	
Board of Directors	2010-2014
STEWARDSHIP CENTRE FOR BC	
Board of Directors	2010-2014

BC WATER SCIENCE STRATEGY

2010-2013

Steering Committee

ASSOCIATION OF CANADIAN COMMUNITY COLLEGES/ENVIRONMENT CANADA

Environmental Citizenship National Steering Committee (Chair) 1993-1996

BC BIOLOGY ARTICULATION COMMITTEE

1981-1985. (Secretary 1982-1983)

BC ENVIRONMENTAL PROGRAMS ARTICULATION COMMITTEE

1990-2005

(1990-2005 for Douglas College, 2006-2019 for University of Victoria)

Chair 2002-2005

Secretary 1993-2001

PROJECT ADVISORY COMMITTEES

Environmental Information Systems Course Development (1999)

BC Graduates are Good for Business – Environmental Programs Inventory (2000)

Environmental Programs Learning Outcomes (2001)

Environmental Programs Field Schools Reference Catalogue (2001)

On-line Distribution of Environmental Curricula and Program Information (2002)

GREATER VANCOUVER REGIONAL DISTRICT (METRO VANCOUVER)

Sustainable Region Initiative Agricultural Land and Habitat Task Force 2002-2003

Biodiversity Conservation Strategy Advisory Committee 2001-2005

BURRARD INLET ENVIRONMENTAL ACTION PROGRAM

Volunteer Advisory Committee 1994-1995

EVERGREEN FOUNDATION

Workshop Advisory Committees 1994-1995

Everett Crowley Park Advisory Committee 1995-1996

Breaking Ground Conference Advisory Committee 2000

OFFSHORE OIL ALLIANCE

Coordinating Committee 1982-1985

VANCOUVER NATURAL HISTORY SOCIETY (NATURE VANCOUVER)

Board Member 1988-1995

Executive (President) 1992-1994

Executive (Vice-President)	1988-1992
Conservation Committee	1981-1985 (Chair 1983-1985)

FRASER RIVER DISCOVERY CENTRE

Board Member	1998-2005
Programs Committee	2000-2005
Strategic Planning Committee	1999-2005

MEMBERSHIPS

Society for Ecological Restoration International

Society for Ecological Restoration, BC

Federation of BC Naturalists

Nature Vancouver

Victoria Natural History Society

College of Professional Biologists of BC

Vancouver Public Aquarium

VanDusen Botanical Gardens

BC Maritime Museum

Garry Oak Ecosystem Recovery Team Society

Stewardship Centre for BC

OTHER ACTIVITIES

Restoration Walks of Victoria series. 2009-2017. (University of Victoria)

Arranged for equivalent of block transfer for students from Environmental Technology Program at Camosun College into UVic Bachelors in Environmental Studies program. 2012.

Restoration Institute 2011. Field Trip. (University of Victoria)

Nature in Vancouver. Field trip for the Western Political Science Association conference. Vancouver, BC. March 18, 2009. (University of Victoria)

Guest Lecturer in "Frontiers of Thought" 1983-2005 (Douglas College)

Douglas Development Workshop. Responding to Changing Student Needs. Language and communications abilities that promote success in Biology. May 14, 2003.

SongBird Project 1998-2000. Promoting awareness of songbirds in the city and encouraging creation of songbird habitat (Roundhouse Community Centre, Vancouver)

Perspectives on the Environment: Creating a Sustainable Society. Lecture Series 1994, 1995, 1996 (Douglas College)

Environmental Citizenship Workshops 1993 (Douglas College)
Living in Vancouver and Victoria - Environmental Problems and Solutions Lecture Series 1992 (Douglas College)
Sustainable Urban Lifestyle Options in BC Lecture Series 1991 (University of Victoria)
Gifted Children's Association workshops 1991-1996
Environmental Problems in the Lower Mainland: Issues for the 90's Tri-Lecture Series 1989 (Douglas College)
Co-op Radio Show ECOWATCH 1981-1990
Guest Lectures at the Lynn Canyon Ecology Center 1983-1990
Biology of the Seashore - Community Education Course 1985 (Douglas College)

PROFESSIONAL CONSULTING

Part of the team with Design Workshops Inc., Denver, CO to develop a Parks Master Plan for City of Vancouver. 2016-2018.

Overview of bird-friendly building design in Vancouver, BC, and a building assessment of Vancouver Art Gallery for Perkins + Will. 2017.

Part of the team with AquaTerra Environmental Ltd. to produce an Ecologically and Culturally Sensitive Restoration Plan for Beaver Lake in Stanley Park, Vancouver. 2013.

Part of the team with Eric Lees and Associates Ltd. Vancouver, BC that developed the Biodiversity Action Plan for Greater Vancouver. 2007

Developed "First Steps" of a Natural Areas Management Plan for Metro Vancouver Parks. 2007

Produced the "Townsend Mole (*Scapanus townsendii*) Status Report – update". Committee on the Status of Endangered Species in Canada (COSEWIC). Ottawa 2002

Open University. Course writer with Trevor Chandler. BISC 230 Humans in the Ecosystem. 1995.

VALENTIN HENRY SCHAEFER

Publications

DISSERTATION AND THESIS

- Schaefer, V.H. 1979. Aspects of habitat selection in the coast mole (*Scapanus orarius*) in British Columbia. Ph.D. Dissertation. Simon Fraser Univ. 205 pp.
- Schaefer, V.H. 1974. Geographic variation in the placement and structure of the nests of three taxa of North American orioles. M.Sc. Thesis. Univ. of Toronto. 129 pp.

PROFESSIONAL REPORTS

- Schaefer, V. 2022 Vancouver Art Gallery updated bird impact evaluation.
- Hebb, J. and V. Schaefer. 2018. University of Victoria. Campus Ecological Restoration Guide.
- Schaefer, V. and S. Darlington. 2017. GOERT 2017: 13th Research Colloquium: New Ways of Understanding Garry Oak Ecosystems. 65 pp.
- Hebb, J. and V. Schaefer. 2017. University of Victoria Sensitive Ecosystems Inventory.
- Schaefer, V. 2017. A Primer on Bird-friendly Building Design. For: Perkins+Will Architects
- Schaefer, V. and S. Darlington. 2016. GOERT 2016: 12th Research Colloquium: Traditional Practices and New Imperatives. 65 pp.
- Kathrens, L., Jennings, J and V. Schaefer. 2016. University of Victoria Invasive Species Management Strategy. Office of Campus Planning and Sustainability. University of Victoria. 171 pp.
- Schaefer, V., Kathrens, L. and J. Jennings. 2015. GOERT 2015: 11th Research Colloquium: Blank Slate Restoration. Proceedings. University of Victoria. 75 pp.
- Orr, C., Hernould, C. and V.H. Schaefer. 2015. Enhancing Rain Gardens as Bioengineering Strategies in Municipal Stormwater Management in Victoria. University of Victoria. 150 pp
- Schaefer, V.H. 2013. Beaver Lake, Stanley Park, Restoration: Options for Biodiversity Action Plan. Part of submission to Vancouver Parks Board by AquaTerra Environmental Ltd.
- Manton, C. and V.H. Schaefer. 2012. Invasive Species Management Strategy for Saanich. Saanich, BC.
- Schaefer, V.H. 2009. The Urban EcoZonePlus. Background paper for: Ecosystem Status and Trends Report. Canadian Biodiversity Outcomes Framework. Canadian Council of Resource Ministers. Ottawa, ON
- Harrop-Archibald, H. (Supervised by Valentin Schaefer) 2008. University of Victoria Campus Tree Inventory (Phase II) outside Ring Road. University of Victoria Facilities Management. Unpublished Document. Victoria, British Columbia.

- Harrop-Archibald, H. (Supervised by Valentin Schaefer) 2008. University of Victoria Natural Features Study Phase Two. CJNI Property, Garry Oak Meadow and Camus Meadow Area, Finnerty Ravine, Haro Woods, South Woods, Lower Hobbs Creek/Mystic Vale. University of Victoria Campus Planning. Unpublished Document. Victoria, British Columbia.
- Harrop-Archibald, H. (Supervised by Valentin Schaefer) 2007. University of Victoria Natural Features Study Phase One. Bowker Creek, Cunningham Woods, Upper Hobbs Creek/ Mystic Vale. University of Victoria Facilities Management. Unpublished Document. Victoria, British Columbia.
- Harrop-Archibald, H. (Supervised by Valentin Schaefer) 2007. University of Victoria Campus Tree Inventory (Phase I) within Ring Road. University of Victoria Facilities Management. Unpublished Document. Victoria, British Columbia.
- Schaefer, V.H. and A. Schaefer. 2007. Metro Vancouver Parks Natural Resource Management Program: Initial Steps. Prepared for Metro Vancouver Parks. Burnaby, BC. 57 pp.
- Burton, C., V. Huff, R.J. Hebda and V. Schaefer. 2006 Grasses of Northern Interior British Columbia. Phase I: Report on current state of botanical and restoration knowledge. Prepared for the BC Ministry of Energy Mines and Petroleum Resources, Oil and Gas Commission. University of Victoria. 105 pp.
- Naujokaitis-Lewis, I. and V. Schaefer. 2005. Preserving Biodiversity through Connectivity in the Greater Vancouver Regional District: Implications for Vegetation Management in Utility Rights-of-way. Prepared for the BC Transmission Corporation. Douglas College. 80 pp.
- Schaefer, V.H. 2005. National Recovery Plan for the Townsend's Mole (*Scapanus orarius*). Prepared for Ministry of Water, Land and Air Protection, Victoria. 26 pp.
- Schaefer, V.H. 2004. Comments on : Screening-Level Risk Assessment 2 (SRA-2) Habitat Module – Assessment of Wildlife Habitat Prepared by SRA—2 Task Force of the Science Advisory Board on Contaminated Sites for British Columbia. 12 pp.
- Schaefer, V.H. 2002. Townsend Mole (*Scapanus townsendii*) Status Report - update. Committee on the Status of Endangered Species in Canada (COSEWIC). Ottawa. 45 pp.
- Schaefer, V.H. 1994. A New Environmental Applied Program for Douglas College. Discussion Paper. Prepared for the Dean of Human Resources and Program Development. 75 pp.
- Schaefer, V.H. 1991. Observations and recommendations to the Vancouver Urban Landscape Task Force. 4 pp.
- Schaefer, V.H. 1991. Transportation and the future quality of life. Discussion paper for Visions 20/20 Program - environmental curriculum materials for BC Grade 11. 8 pp.
- Schaefer, V.H. 1989. Wildlife Viewing Plan for Stamp Falls Provincial Park. Prepared for BC Ministry of Parks to be submitted to the BC Ministry of the Environment, Wildlife Viewing Program. 44 pp.

- Schaefer, V.H. 1989. The Quality of Bottom Sediments in Port Moody Inlet: Recommendations and Analysis of Study Deficiencies. Prepared for the Mayor's Office, Port Moody. January. 3 pp.
- Schaefer, V.H. 1984. Report concerning the development of BC's offshore petroleum resources. Written submission to the Environmental Assessment Review Panel on the Ministry of the Environment. November. 15 pp.
- Schaefer, V.H. 1978. The possible effects of the proposed port expansion at Roberts Bank on the ecology of salmon, waterfowl, benthic organisms, and crabs in the area. Supplemental written submission by the Canadian Society for Pollution and Environmental Control (SPEC) to the EARP hearings on the Roberts Bank port expansion. October. 16 pp.

PROFESSIONALLY REVIEWED JOURNALS AND BOOKS

- Schaefer, V. 2017. Incorporating Novel Ecosystems and Layered landscapes for Ecological Restoration in Cities. *American Journal of Life Sciences*. 5(6): 164-169. doi: 10.11648/j.ajls.20170506.13
- Schaefer, V., Beukeboom, K. and Z. Luck. 2017. Unexpected rye seed growth in a lab study of mycoremediation of contaminated incinerator ash. *Ecological Restoration* 35:19-22.
- Sun, Zhongyu; Huang, Yuhui; Yang, Long; Schaefer, Val; Zheng, Yanwei; Chen, Yanqiao; Li, Yu 2017. Plantation age, understory vegetation and species-specific traits of target seedlings alter the competition and facilitation role of Eucalyptus in South China. *Restoration Ecology*. DOI: 10.1111/rec.12499
- Sun, Z., Chen, Y., Schaefer, V., Liang, H., Li, W., Huang, S., and C. Peng. 2015. Responses of the Hybrid between *Sphagneticola trilobata* and *Sphagneticola calendulacea* to Low Temperature and Weak Light Characteristic in South China. *Scientific Reports*.
- Schaefer, V. and M. Bocking. 2015. The Threshold between an Ornamental Landscape and a Functional Community: Soil Microarthropods as Indicator Species. *Urban Ecosystems* DOI 10.1007/s11252-015-0467-3 *Urban Ecosystems* 18 (4) (2015):1071-1080.
- Schaefer, V. and A. Tillmanns. 2014. Listening to Ecosystems: Ecological restoration and the uniqueness of place. *Ecological Restoration* 33(1):3-9.
- Sun, Z., Ren, H., Schaefer, V., Lu, H., Wang, J., Li, L. and N. Liu. 2014. Quantifying the ecological memory during forest succession: a case study from lower subtropical forest ecosystems in South China. *Environmental Monitoring and Assessment*. *Ecological Indicators* DOI 10.1007/s10661-014-4000-6
- Schaefer, V., Pivnick, J. and S. Doner. 2013. Incorporating Topics that aren't "Distance-Friendly" into an Online Program: One Development Team's Experience. *Canadian Journal for University Continuing Education* 39:1-11.
- Schaefer, V. 2013. Nature's Apostles: A model for using ecological restoration to teach ecology. *American Biology Teacher* 75:417-419.

- Sun, Z., Ren, H., Schaefer, V., Lu, H., Wang, J., Li, L. and N. Liu. 2013. Using ecological memory approach to evaluate the natural succession degree of four restored plantations in subtropical China. *Environmental Monitoring and Assessment* 186:8229-8247..
- Schaefer, V. and E. Gonzales. 2013. Teaching Ecological Restoration Using a Problem-based Learning Approach. *Ecological Restoration* 31:411-417.
- Schaefer, V. 2012. Ecological Restoration: A Global Challenge. Franciso A. Comin, editor. 2010. New York, Cambridge University Press. Book Review. *Environments* 38:119-121.
- Schaefer, V.H. 2010. Remembering Our Roots: a possible connection between loss of ecological memory, alien invasions and ecological restoration. *Urban Ecosystems* 13(4):35-44.
- Schaefer, V.H. 2009. Alien invasions, ecological restoration in cities and the loss of ecological memory. *Restoration Ecology* 17(2):171-176.
- Schaefer, V. and A. Schaefer. 2008. Sections on Burns Bog, Renfrew Ravine and Byrne Creek Ravine in: *Nature in Vancouver*. Nature Vancouver (Vancouver Natural History Society). Vancouver, BC
- Schaefer, V. and E. Higgs. 2007. The Gardens of Babylon Rediscovered: The Role of Heritage Landscapes in the Modern City. *Alternatives Journal* 33: 26-29.
- Schaefer, V.H. 2006. Science, Stewardship and Spirituality: The Human Body as a Model for Ecological Restoration. *Restoration Ecology* 14(1): 1-3.
- Schaefer, V.H., Rudd, H. and J. Vala. 2004. *Urban Biodiversity: Exploring Natural Habitat and its Value in Cities*. Captus Press. Concord, ON 344 pp.
- Schaefer, V.H. 2004. Ecological setting of the Fraser River delta and its urban estuary. In: Groulx, B.J., D.C. Mosher, J.L. Luternauer and D.E. Bilderback. *Fraser River Delta, British Columbia: Issues of an Urban Estuary*. Geological Survey of Canada Bulletin 567. Ottawa
- Schaefer, V.H. 2002. Book Review. *Helping the Land, Healing Ourselves: A Guide to Ecological Restoration Resources for British Columbia* by the British Columbia Environmental Network Educational Foundation. *Ecological Restoration* 20(1):72-73.
- Schaefer, V.H., Rudd, H. and J. Vala. 2002. *Urban Biodiversity: Exploring Natural Habitat and its Value in Cities*. Douglas College Centre for Environmental Studies and Urban Ecology, New Westminster. 149 pp.
- Rudd, H., Vala, J. and V.H. Schaefer. 2002. The Importance of Backyard Habitat in a Comprehensive Biodiversity Conservation Strategy – A Connectivity Analysis of Urban Green Spaces. *Restoration Ecology* 10(2):368-375.
- Schaefer, V.H. 1999. The Green Links Project: A Holistic Approach to Habitat Restoration in Cities. *Ecological Restoration*. *Ecological Restoration* 17(4):250-251.
- Schaefer, V.H. 1999. *Green Links and Urban Biodiversity - an Experiment in Connectivity*. UrbanNature Magazine, London, England. p. 100-104.
- Cacik, R. and V.H. Schaefer. 1996. *City of Surprises: Discovering Urban Wildlife Habitats*. Douglas College Institute of Urban Ecology. 122pp.

- Schaefer, V.H. 1998. Service-Learning and the Green Links Project: A Case Study. *Learning Quarterly. Journal of the Centre for Curriculum, Transfer and Technology, Victoria, BC* p. 17-20.
- Schaefer, V.H. 1997. Ecological Setting. In: Groulx, B. and J Luternauer. *The Fraser River Delta and its Urban Estuary. Geological Survey of Canada and American Association for the Advancement of Science, Pacific Northwest Division.*
- Schaefer, V.H. 1994. Urban Biodiversity. In: *Biodiversity in British Columbia. Harding, Lee and Emily McCullum (Eds.). pp. 307-318. Environment Canada.*
- Schaefer, V.H. 1992. Thinking locally in environmental education. *J. Env. Ed.* 24(1):5-8.
- Schaefer, V.H. 1982. Movements and diel activity of the coast mole, (*Scapanus orarius* True). *Can. J. Zool.* 60(3): 481-482.
- Schaefer, V.H. 1981. A test of the possible reduction of the digging activity of moles in pastures by increasing soil nitrogen. *Acta Theriol.* 26/7:118-123.
- Schaefer, V.H. and R.M.F.S. Sadleir. 1981. Factors influencing molehill construction by the coast mole (*Scapanus orarius* True). *Mammalia* 45(1): 31-38.
- Schaefer, V.H. and R.M.F.S. Sadleir. 1979. Concentrations of carbon dioxide and oxygen in mole tunnels. *Acta Theriol.* 24/21: 267-276.
- Schaefer, V.H. 1976. Geographic variation in the placement and structure of oriole nests. *Condor* 78(4): 443-448.
- Schaefer, V.H. 1980. Geographic variation in the insulative qualities of the nests of the Northern Oriole. *Wilson Bull.* 92(4): 466-474.

POPULAR JOURNALS AND BOOKS

- Schaefer, V. 2020. *Beyond the Pail: Discovering the Extraordinary in the Ordinary.* Urbanecology.ca, Victoria.
- Schaefer, V. 2018. *Interpreting Nature: A primer for understanding natural history. Volume 1. Ecology, Taxonomy, and Kingdoms Archaeobacteria, Eubacteria, Protista, Plantae and Fungi.* University of Victoria, Division of Continuing Studies.
- Schaefer, V. 2018. *Interpreting Nature: A primer for understanding natural history. Volume 2. Kingdom Animalia.* University of Victoria, Division of Continuing Studies.
- Hebb, J. and V. Schaefer. 2018. *University of Victoria. Campus Ecological Restoration Guide.*
- Schaefer, V. and A. Fisher. 2018. *Bring Back the Bluebirds Project. BC Birding* 18(1).
- Schaefer, V. and A. Fisher. 2018. *Bring Back the Bluebirds Project – 5 Years Later. BC Nature. Winter. 2017/2018:12-14.*
- Ziter, C., Mitchell, M., Bardekjian, A., Conway, T., Danyluk, A., Molnar, M., Pachcinski, M., Podur, J., Schaefer, V., Clark, J. and S. Murphy. 2018. *Connecting Urban Planners and Urban Ecologists to Create Sustainable Canadian Cities. The Nature of Cities. Canadian Urban Planning.*

- Schaefer, V. and A. Fisher. 2017. Bring Back the Bluebirds Project – 5 Years Later. BC Nature. Summer 2017:21-22.
- Schaefer, V. and L. Biggs. 2017. Balancing the Books – Ecological Restoration Programs at the University of Victoria Take People and Nature into Account. Sitelines. August 2017.
- Schaefer, V. 2017. Layered Landscapes and Ecological Restoration in Cities: Case Study — the University of Victoria Campus. Sitelines. August 2017,
- Schaefer, V. and J. Miles. 2014. Victoria's Urban Forest. A Walking Guide to Species of Interest. University of Victoria. 76pp.
- Schaefer, V. and J. Miles. 2nd ed. 2013. Restoration Walks in Victoria: A guide to some ecological restoration projects in Greater Victoria. University of Victoria.
- Schaefer, V. and J. Miles. 1st ed. 2012. Restoration Walks in Victoria: A guide to some ecological restoration projects in Greater Victoria. University of Victoria.
- Jones, Nora Anne, Schaefer, Val and Joanne Andrews. 2011. Nature Printing Society. August 1-6, 2011. Fort Collins, CO. Mixbook. 60 pp.
- Schaefer, V. and A. Schaefer. 2010. Ogden Point Odyssey: Breakwater, Natural History, People and Activities. urbanecology.ca. New Westminster, BC
- Schaefer, V. and E. Higgs. 2007. Modern Babylon. Alternatives Journal 33(2/3):26-29.
- Schaefer, V. 2007. Moles and Their Holes. NatureWild: Magazine for the Young Naturalists Club of British Columbia. Volume 8.
- Schaefer, V. 2001. Green Links. The Blazing Star (Newsletter of the North American Native Plant Society). Fall.
- Schaefer, V. 2001. Rights-of-way management in support of biological conservation. In: Proceedings of the 7th International Symposium on Environmental Concerns in Rights-of-Way Management.
- Schaefer, V. and L. Paris. 1999. Songbirds in the City: A Celebration. Douglas College Centre for Environmental Studies and Urban Ecology. 132 pp.
- Schaefer, V.H. 1996. River Lampreys in Byrne Creek Ravine, Burnaby, BC. DISCOVERY 25(1):6-7.
- Vancouver Natural History Society. 1995. Nature in Vancouver. Coordinated production of the entire publication, chief editor.
- Vancouver Natural History Society. 1995. Birds of Burrard Inlet. Coordinated production of the entire publication, chief editor.
- Schaefer, V.H. 1994. Urban Ravines. DISCOVERY 23(3): 105-107.
- Vancouver Natural History Society. 1993. A Bird Watching Guide to the Vancouver Area - British Columbia. Coordinated production of the entire publication, chief editor, wrote introductory section: The Ecology of Vancouver.

- Schaefer, V.H. 1993. Thinking Locally in Environmental Education: The Victoria, BC Experience. Forward to Excellence 1(2): pp. 3,14. Newsletter of Science and Mathematics Dept., Columbia College, Chicago. (excerpt from J. of Env. Ed. article).
- Schaefer, V.H. 1992. Nature Downtown: A Self-guided Field Trip. DISCOVERY 21: 105-107.
- Schaefer, V.H. 1992. Progress in Restoring Camosun Bog. DISCOVERY 21: 113-115.
- Schaefer, V.H. 1991. Resolving Conflict - The Limits of Critical Thinking. The Visionary 1: 11.
- Peacock, A. and V.H. Schaefer. 1990. A Scuba Survey for an Underwater Park. Part II: Vertical Transects Through Intertidal and Subtidal Regions. DISCOVERY 19: 62-67.
- Peacock, A. and V.H. Schaefer. 1990. A Scuba Survey for an Underwater Park. Part 1: Initial Observations at 9 m Depth. DISCOVERY 19: 14-18.
- Schaefer, V.H. and A. Chen (Eds.) 1988. *The Natural History of Stanley Park by the Vancouver Natural History Society*. Discovery Press, Vancouver. 66 pp.
- Schaefer, V.H. 1987. Environmental Issues in the Lower Mainland. DISCOVERY 16(4): 120-125.
- Schaefer, V.H. and A. Peacock. 1986. The Vegetation of an Urban Park. DISCOVERY 15(2): 64-69.
- Schaefer, V.H. 1986. The Enhancement of Maplewood Mudflats. DISCOVERY 15(1): 23-24
- Schaefer, V.H. 1986. Book Review - Animal Thinking by D.R. Griffin. DISCOVERY 15(1): 30-31.
- Schaefer, V.H. 1985. The Biology of an Urban Lake. DISCOVERY 14(3): 75-80.
- Schaefer, V.H. 1985. Meares Island - The Turning Point. DISCOVERY 14(2): 59.
- Schaefer, V.H. 1985. Conservation Issues: 1984. DISCOVERY 14(1): 6-8.
- Schaefer, V.H. 1984. Offshore Oil in British Columbia. BC Naturalist 22(4): 11.
- Schaefer, V.H. 1984. The public participation process for offshore petroleum exploration in BC West Coast Environmental Law Newsletter 10(3): 10-12.
- Schaefer, V.H. 1984. A theory on the dentition of moles (Talpidae).DISCOVERY 13(2): 64-65.
- Schaefer, V.H. 1984. The Environmental Assessment and Review Process (EARP). DISCOVERY 13(1): 22-23.
- Schaefer, V.H. 1983. The environmental effects of offshore oil development. DISCOVERY 12(1): 4-6.
- Schaefer, V.H. 1982. Report on the "Offshore Drilling for BC" conference. DISCOVERY 11(3): 92-94.
- Schaefer, V.H. 1981. The development of BC's offshore petroleum resources: an environmental concern. DISCOVERY 10(4): 106-108.
- Schaefer, V.H. 1981. The Environment Management Act. DISCOVERY 10(3):1-72.

MONOGRAPHS

- Schaefer, V. 2018. A qualitative assessment of urban ecosystem resilience using a habitat quality index. In: Society for Ecological Restoration Western Chapter. Conference Proceedings. February 15. Simon Fraser University.

- Schaefer, V. and A. Elves. 2018. The Quantitative Analysis of Natural Populations: Some Common Statistics and What They Mean. Primer for ER312A, University of Victoria. 23pp.
- Hebb, J. and V. Schaefer. 2018. University of Victoria Campus Restoration Guide. University of Victoria. 315 pp.
- Schaefer, V.H., Vala, J. and H. Rudd. 2001. Planting for Paradise. The Environmental and Financial Benefits of Greening the City. Douglas College Centre for Environmental Studies and Urban Ecology. 73 pp.
- Schaefer, V.H. et al. 1997. Green Links. Vol. 1 Coquitlam Demonstration Project, 143 pp. Vol. 2 Implementation, Enhancement and Community Action, 320 pp. Vol 3 Additional Data and Documentation for the Coquitlam Project, 124 pp. Vol. 4 Burnaby Demonstration Project, 176 pp. Vol. 5 Surrey-Delta Demonstration Project, 159 pp. Douglas College Institute of Urban Ecology.
- Olson, C. and V.H. Schaefer. 1996. Green Links: Connecting Green Spaces in Urban Areas. Douglas College Institute of Urban Ecology.
- BC Ministry of Environment, BC Ministry of Skills, Training and Labour, and BC Centre for Curriculum Development. Perspectives on the Environment: Creating a Sustainable Society. Vols. 1 and 2. 463 pp. Compiled by Valentin Schaefer.
- Schaefer, V.H., Aston, M., Cacik, R., West, J. and P. Whalen. 1993. Growth Management and Urban Ecology. Vol. 1. Queensborough - A Case Study. Vol. 2. Urban Habitat Classification. 367 pp.
- Schaefer, V.H. (Ed.). 1992. *Biodiversity in Greater Victoria*. University of Victoria, Victoria, BC 126 pp.
- Schaefer, V.H., Aston, M., Bergstresser, N., Gray, J. and P. Malacarne. 1992. *Urban Ravines. Vol. 1. Byrne Creek - A Case Study. Vol. 2. BC Lower Mainland Urban Ravines Inventory*. 452 pp.
- Schaefer, V.H. (Ed.) 1991. *Sustaining Victoria - Exploring Urban Lifestyle Options*. University of Victoria, Victoria, BC 272 pp.
- Schaefer, V.H. (Ed.) 1991. *Environmental Issues in Greater Victoria. Environmental Studies Program. University of Victoria, Victoria, BC 190 pp.*
- Schaefer, V.H. and J. Grass. 1989. *Interpreting Nature: A Primer for Understanding Natural History, Vols. 1 and 2. Douglas College and Greater Vancouver Regional District*. 558 pp.
- Anderson, H., Schofield, C., Schaefer, V.H. and A. Peacock. 1989. *Protecting the Environment: What One Person Can Do*. Douglas College, New Westminister, BC 107 pp.
- Roth M., Rustand, E., Peacock, A., Schaefer, V.H., and D. Wilson. 1989. *Environmental Issues in the Lower Mainland of British Columbia*. Douglas College, New Westminister, BC (Draft) 212 pp.
- Peacock, A., Schaefer, V.H., Beaton, G., Kaps, B. and R. Major. 1987. *A Nature Guide to Urban Parks*. Douglas College, New Westminister, BC 217 pp.

OTHER PUBLICATIONS

- Schaefer, V. 2019. *Interpreting Nature: A Primer for Understanding Natural History. Volume 1. Taxonomy, Ecology, Bacteria, Protista, Fungi, Plants, Volume 2. Animals.* University of Victoria. Course text for ER099 Introduction to Biology and Natural History. 555 pp.
- Schaefer, V. 2018. A qualitative assessment of urban ecosystem resilience using a habitat quality index. Restoration for Resilience Conference. Society for Ecological Restoration, Western Chapter. February 15, 2018. Proceedings:16-17.
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