

# 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-present	College of Applied Biologists of British Columbia

## POSITIONS HELD

09/05-present *Academic Administrator (formerly Faculty Coordinator), Restoration of Natural Systems Program, School of Environmental Studies, University of Victoria, Victoria, BC* Ensure delivery and development of program curriculum; advise students; liaise with government, industry, and community; maintain budget; teach a number of courses; work with other university administrators to develop Professional Specialists Certificate in ecological restoration, Master's program approval and development of the annual Restoration Institute on advances in ecological restoration and other Environmental Studies initiatives; supervise graduate students.

08/97-08/05 *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.

09/95-08/97 *Acting Director, Douglas College Institute of Urban Ecology.* Managed projects on urban green space enhancements and educational initiatives on interpreting nature in the city.

01/83-12/93 *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.

08/81-08/05 *Full-time Faculty, Biology, Douglas College.* Taught and developed courses in Introductory Biology, Ecology, Genetics, Anatomy and Physiology, Environmental Perspectives.

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

01/86-12/87 *Department Chair, 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.

01/79-08/79 *Sessional Instructor, Douglas College.* Taught Introductory Biology, Human Anatomy and Physiology.

09/75-12/78 *Teaching Assistant, Simon Fraser University, Burnaby, BC.* Conducted tutorials or laboratories in Introductory Biology, Animal Physiology, Vertebrate Evolution, and Ornithology.

09/74-05/75 *Laboratory Coordinator, Carleton University, Ottawa, ON.* Coordinated and instructed laboratory portion of second-year Genetics

09/72-05/74 *Laboratory Demonstrator, University of Toronto, Toronto, ON.* Supervised and instructed Introductory Biology, Genetics, and Ecology laboratories.

04/72-08/72 *Research Assistant, McGill University, Montreal, QC.* Conducted studies of bird song, territoriality, neural control of bird song.

## PROJECT DESIGN AND COORDINATION

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.

## INSTITUTE AND WORKSHOP COORDINATION

### UNIVERSITY OF VICTORIA

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, invasive species, university campus natural features, ecological memory. (University of Victoria, Institute of Urban Ecology, Douglas College and Restoration of Natural Systems Program)

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

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. 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 PRESENTATIONS

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  
Ecological Memory

## COMMITTEE WORK

### UNIVERSITY OF VICTORIA

#### FACULTY COMMITTEES AND UNIVERSITY WIDE COMMITTEES

Restoration of Natural Systems Program Advisory Committee	2005-present
Sustainability Policy and Plan Advisory Committee	2008-2009
BC Environmental Programs Articulation Committee	2008-present
NSERC Earth Sciences and Ecology Scholarship Committee	2008
Social Sciences Curriculum Committee	2008
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 Director Search Committee	2010
Graduate Applications Review Committee.	2007-2009
McTaggart-Cowan Professorship Search Committee.	2008
Helped develop Professional Specialists Certificate in Native Plants and Natural Processes with Continuing Studies	2006-2007
McTaggart-Cowan Professorship Fund-raising Committee (Strategic Ecological Recovery Initiative)	2006-2007
Director of School of Environmental Studies Search Committee	2006, 2010

### UNIVERSITY OF BRITISH COLUMBIA

Design Centre for Sustainability by Design Initiative Research Forum	2009
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## 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
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### DOUGLAS COLLEGE INSTITUTE OF URBAN ECOLOGY

Advisory Committee	1992-2005
Internal Steering Committee	1982-1984

## LANGARA COLLEGE

Wetlands Ecology Course Advisory Committee	1996-1997
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## SOCIETY FOR ECOLOGICAL RESTORATION, BC CHAPTER

Board of Directors	2006-2010
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## GARRY OAK RESTORATION PROJECT

Steering Committee	2006-2010
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## ASSOCIATION OF CANADIAN COMMUNITY COLLEGES/ENVIRONMENT CANADA

Environmental Citizenship National Steering Committee (Chair)	1993-1996
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## BC BIOLOGY ARTICULATION COMMITTEE

1981-1985. (Secretary 1982-1983)

## BC ENVIRONMENTAL PROGRAMS ARTICULATION COMMITTEE

1990-present

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
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## 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
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## 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

## OTHER ACTIVITIES

Restoration Walks of Victoria series. 2009-2010. (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)

## AWARDS

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