

Undertaking #6

To provide a CV for anyone appearing on behalf of Bilcon whose CV is not included in Appendix 1 of the EIS

# Curriculum Vitae

## Paul G. Buxton P.Eng

**Educated** - Brewood Grammar School, U.K., 1960

- University of Manchester, Honours Degree in Civil Engineering (Hydraulics Major). 1965

**Professional Accreditation** - Association of Professional Engineers of Nova Scotia

- Associate of the Manchester College of Science and Technology.

### Working Groups, Committees

- Director, Nova Scotia Chamber of Mineral Resources, 2005 - 2006

- Member, Executive Committee of Nova Scotia Environmental Control Council 1983 - 1987

- Advisor to minister of Environment on Hazardous Waste Management 1987 - 1989

- Chairman, Hazardous Waste Management Task Force 1987

- Executive Director, Annapolis Royal Development Commission, 1979 - 1987

- Executive Director, Municipality and Town of Digby Development Commission, 1990 - 1995

- Member, Tidal Power Liason Committee, 1986

- Vice Chairman, Annapolis Royal Area Heritage Foundation, 1989 - 1990

- Director, Performing Arts Sponsors of Nova Scotia 1980 - 1985

- Director, Annapolis Royal Historic Gardens, 1986 - 1988

### **Professional Activities**

- Principal, Paul G. Buxton P.Eng, 1976 - 2006
- Principal, Delta Four Associates Inc. 1990 - 2006
- President Acadia Developments Ltd. 1978 - 2006
- President Eastern Canada Bioremediation Inc. 1997 - 1999
- Project Manager, Bilcon of Nova Scotia Incorporated, 2004 - 2006

### **Typical Projects**

- Annapolis Basin Tourism Strategy
- Annapolis Royal Waterfront Development Plan
- Shelburne County Economic Development Plan
- Queens County Economic Development Plan
- Long Island Development Plan
- Town of Annapolis Royal Restoration
- Lunenburg Academy Conservation
- Upper Clements Theme Park
- Construction of Fish Plant, South Yemen
- The Y`ARC, Yarmouth
- Recreation Study, Port Hawkesbury
- Kings Theatre, Annapolis Royal
- Carleton House, Halifax, Restoration
- Annapolis Royal Historic Gardens
- Botanical Gardens, Summerside, PEI
- Theatre, Universite Ste. Anne
- Bioremediation Demonstration Projects
- Phase 1 and 11 Environmental Assessments
- Digby Marina, Digby
- On Site Sewage Disposal Systems
- Eco/Heritage Interpretive Centre, Annapolis Royal
- Tidal Power Interpretive Centre
- WVDA Economic Development Strategy

- Ross Creek Centre for the Arts
- River Severn Power Station
- Farmers Market, Annapolis Royal
- Waterfront Walkway, Annapolis Royal
- Sinclair Inn, Annapolis Royal

John T Wall  
79 Church Street  
Digby, Nova Scotia  
B0V 1A0

Personal: Born July 26, 1948, married with children, one girl at Digby High School and one girl at Acadia University  
Completed two years of college at Windham College, Putney, Vermont.

1970 - 1976 Self employed in Manchester, Vermont. Started landscaping and small construction business. Did landscaping, tennis court maintenance and construction, small site work projects, land clearing and some building construction.

1976 – 1978 Peckham Material, Chestertown, New York  
Superintendent at location with two asphalt plant and a sand and gravel plant. Managed all aspects of site location.

1979 – 1980 Allied Chemical, Lewis, New York  
Superintendent of two locations with crushing plants and asphalt plants producing aggregate and asphalt for highway construction. Managed all aspects of two site locations.

1981 - 1982 Negev Airbase Constructors, Ovda, Israel  
Superintendent of the asphalt plant. Also worked managing the quarry, road construction, and site work part time.

1983 - 1985 Tilcon, Tomkins Cove, New York  
Superintendent of quarry producing million tons per year and loading barges on the Hudson River for the New York City market.

1986 – 1991 Mt. Hope Rock Products, Wharton, New Jersey  
Operations Manger of quarry and asphalt plants. Developed the quarry from one million tons per year to five million tons per year.

Tenth largest quarry in the United States in 1990 also produced one million tons of asphalt in 1991.

1992 – 1995 Bardon, Greenbelt, Maryland  
Chief Operating Officer managing fourteen quarries in four states.

1996 Riverdale Quarry, Riverdale, New Jersey  
Vice President of quarry producing almost two million tons per year.

1997 – 2000 Braen Stone Industries, Haledon, New Jersey  
Operations Manger of two quarries producing two million tons per year.

2001 – 2002 Aggregate Solutions, Flanders, New Jersey  
Self employed owner selling repair parts to the aggregate and asphalt industry in New York, New Jersey, Delaware, and Maryland. Also contracted out small plant erection and repair projects and did consulting work for aggregate producers.

2003 to present Clayton Sand, Lakewood, New Jersey and Bilcon of Nova Scotia Operations manager of proposed quarry project in Digby, Nova Scotia. Investigated aggregate opportunities in New Brunswick, Nova Scotia, and Newfoundland. Will design, build, and manage quarry in Digby.

J.M. Lowry  
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RR#1 Deep Brook, Nova Scotia B0V 1A0  
Telephone: 902 245-2567 (Office)  
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Email: [josephine.lowry@ns.aliantzinc.ca](mailto:josephine.lowry@ns.aliantzinc.ca)

*Professional Position*

EIA Document Director – Bilcon of Nova Scotia Corporation May 2005 to Present

Responsible for:

- Coordinating flow of information from Project Manager, Operations Manager, scientists, consultants, contributors, Joint Review Panel Secretariat, Regulatory Agencies, Responsible Authorities, NGO's and the general public for Whites Point Quarry Environmental Impact Statement, Bilcon's Responses to Comments and Bilcon's presentations to the Joint Review Panel for the Whites Point Quarry and Marine Terminal Public Hearings.
- Planning, creating, editing, printing and distributing:
  - The Whites Point Quarry and Marine Terminal Environmental Impact Statement – 17 Volumes, over 3,000 pages
  - Bilcon's responses to comments from the Joint Review Panel, Regulatory Agencies, Responsible Authorities, NGO's and the general public – 4 Volumes, over 1500 pages
  - Bilcon's newsletters – 6 editions
  - Presentations for Quarry Update Meetings
  - Bilcon's presentations to the Joint Review Panel for the Whites Point Quarry and Marine Terminal Public Hearings
- Planning and organizing public meetings:
  - November 1<sup>st</sup>, 2005 – Bilcon Open House – Sandy Cove, Nova Scotia
  - October 2<sup>nd</sup>, 2006 – Employment meeting for the young people on Digby Neck – Little River, Nova Scotia
  - May 3<sup>rd</sup>, 2007 – Quarry Update Meeting – Digby Regional High School, Digby, Nova Scotia
- Liaising with the community regarding the Project via:
  - Office visits
  - Public Meetings
  - Telephone, Fax, Email

- Organizing Bilcon's participation in the Joint Review Panel's Whites Point Quarry and Marine Terminal Public Hearings:
  - Logistics – organizing schedules, accommodations, meals, travel arrangements and preparation meetings for Bilcon, scientists, consultants and contributors
  - Preparing PowerPoint Presentations
  - EIS/IR navigation and research to support the Bilcon Team throughout the Public Hearings

*Experience – 1983 to 2002*

- Owner - Maloway and Eliason Insurance and Travel – Winnipeg, Manitoba
- Vice President Sales and Marketing – Taylor'd North, Winnipeg, Manitoba
- Armstrong Printing – Corporate Sales Representative
- Owner - Riverwood Farm – Winnipeg, Manitoba
  - Teacher/Lecturer – Winter Lecture Series – Wellness Centre at Seven Oaks General Hospital, Winnipeg, Manitoba – Topics included: Organic Herb Gardening, Herbs for Health, Cooking with Herbs, Companion Planting, Garden Design
  - Herb Landscape Design – Clients included: Winnipeg Winter Club, Wildwood Golf Club, Winnipeg ,Breezy Bend Golf Club, Winnipeg, Manitoba
- Office Of the Provincial Auditor, Winnipeg, Manitoba – Administration
- Manitoba Lotteries Corporation, Winnipeg, Manitoba – Human Resources

*Education*

Grade XII - Winnipeg, Manitoba

Diploma in Aesthetics – Vancouver, British Columbia





# Uwe Wittkugel, Dipl.Ing., M.E.Des., MCIP, CSLA

## Senior Environmental Planner and Consultant

### Professional summary

Mr. Uwe Wittkugel has 24 years of experience in environmental planning and consulting. He has specialized in impact assessments, site and route selection studies, conservation strategies, and landscape planning. Uwe has been project manager and co-ordinator of numerous environmental assessment studies related to a wide variety of projects including waste management, road, pipeline, power transmission, site remediation and urban development projects. Uwe brings with him exceptional project management skills, outstanding problem solving capabilities, and excellent verbal and graphic communication skills. Uwe has obtained formal training in participatory planning, group facilitation and dispute resolution and has played a significant role in numerous public involvement programs.

### Professional experience

Since 2001: Project Manager and Consultant; AMEC E&E, Mississauga (ON) & Dartmouth (NS).  
1998 - 2000: Process Manager; *Samenwerkende Ingenieursbureau Utrecht (SIBU)*, Netherlands.  
1990 - 1997: Principal Environmental Planner; *Fenco MacLaren (SNC Lavalin)*; Toronto, Ontario.  
1986 - 1990: Manager, Landscape Planning Group; *JU Hass - Landscape Architect*; Germany.  
1985 - 1986: Landscape Planner; *Senate of West Berlin*. Parks and Conservation. Berlin, Germany.  
1983 - 1986: Landscape Planner; self-employed; Berlin, Germany

### Education, professional development, scholarships

1981: Master's degree in Landscape Planning, University of West Berlin, Germany.  
1983: Master's degree in Environmental Design (Env. Science), U. of Calgary, Alta, Canada.  
1994: Planning Theory and Practice, Policy Formulation & Implementation; Ryerson, Toronto.  
1997: Facilitation and Development of Sustainable Agreements for Planners, OPPI, Toronto.  
1998: Alternative Dispute Resolution, Negotiation & Mediation; MoMA, Toronto.  
1981 - 1983: Government of Alberta Graduate Scholarship in Environmental Science

### Project experience - highlights

EA (Comprehensive Study), Keltic Petrochemical Complex and LNG Terminal, Goldboro, NS.  
Remediation of the Sydney Tar Ponds & Coke Ovens Sites (CEAA Panel Review), STPA, Sydney, NS.  
EA-Terrestrial Environment (CEAA Screening), Port Hope & Port Granby, AECL/LLRWMO, Ontario.  
EIA (Individual EA) and Landfill Site Search - Metro Toronto/York Region Landfill Project. IWA, Ontario.  
EA (CEAA Screening), Sarnia Ethanol Project, Suncor Energy Products Inc, Ontario.  
Waste Transfer Station Site Selection and Zoning Amendment, Wellington County, Ontario.  
EA (Panel Review) Sable Offshore Energy Project –Gas plant site selection. Mobil Oil, Nova Scotia.

### Professional affiliations

Member of Canadian Institute of Planner (MCIP)  
Member of Canadian Society of Landscape Architects (CSLA)

### Languages

English, German, French, Dutch

## Detailed project experience

### Environmental Planning – Power Sector, Chemical Industry, Pipelines

Senior environmental planner – Federal (Comprehensive Study Report) and provincial environmental assessment for a proposed petrochemical production complex in Goldboro, Nova Scotia. The development will include an ethylene and polypropylene production facility, gas co-generation power plant, LNG tanker terminal, and de-gasification facility. The EA work is still in progress and is being prepared for Keltic Petrochemical Inc. Halifax, NS.

Senior environmental planner – Environmental Screening Report for proposed 1000 MW combined cycle natural gas-fired power generation facility in St. Clair Township, Lambton County, Ontario. Environmental assessment conducted pursuant to the “Environmental Assessment Requirements for Electricity Projects” under the “Electricity Projects Regulation”(Ontario Reg. 116/01). Responsibilities included, effects assessment, team co-ordination, agency and public consultation and report generation. Report prepared for Calpine Corporation. Toronto, Ontario.

Senior environmental planner – Environmental Study Report for proposed ethanol plant in Sarnia, Ontario. The plant is designed to produce 200 million litres of ethanol per year. The ethanol will be produced from corn and marketed as blend with Sunoco gasoline. Responsibilities included, effects assessment, tree and woodlot preservation plan, team co-ordination, agency and public consultation, report generation, and client liaison. Report prepared for Suncor Energy Products Inc. Toronto, Ontario.

Acting project manager – Environmental Assessment (screening level) pursuant to Canadian Environmental Assessment Act (CEAA) for the proposed development of an International Thermonuclear Experimental Reactor (ITER) at Clarington, Ontario. The project was terminated near the end of the baseline inventory on financial and political grounds. The project was designed as multi-disciplinary environmental assessment of the Iter facility development, operation and decommissioning. Responsibilities included, work program development, budget estimates, progress reporting, team co-ordination, report compilation, technical contributions related to land use planning, socio-economics, terrestrial environment, public consultation, and client liaison. AMEC Earth & Environmental Limited/ Iter Institute Canada, Toronto, Ontario.

Senior environmental planner - Sable Offshore Energy Project (SOEP); responsible for development of rationale for near-shore pipeline corridor and on-shore gas plant site selection and EIS Addendum II Report generation. Study prepared for Mobil Oil Canada as the lead SOEP proponent. Halifax. Nova Scotia.

EA Report Co-ordinator - Environmental Impact Assessment for Ba Ria - Vung Tau Diesel Engine Power Plant, Vietnam. Development of mitigation and monitoring plan; principal author of environmental impact assessment report. ESG International, Wärtsilä Power Development (Asia) Ltd. and Government of Vietnam.

Project manager for the environmental impact assessment of industrial area for wheat to ethanol plant in Delhi, Ontario, proposed by Metalore Resources Inc. The study was conducted under the Canadian Environmental Assessment Act (CEAA). Ontario.

Project manager for route location study and environmental impact assessment with emphasis on visual impact assessment for 110 kV power transmission line, Abzweig Glückstadt, Preussen Elektra, Lübeck. Germany.

Co-ordinator of the multi-disciplinary corridor alternative and environmental impact assessment study for the Sarnia to Montreal NGL Pipeline proposed by the Interprovincial Pipe Line Company. Ontario.

Project manager; alternative corridor assessment and route selection study for high pressure gas pipeline Tornesch - Norderstedt (Hamburg) including habitat inventory, planning and implementation of rehabilitation and compensation measures, as well as environmental inspection work during the construction phase. The project was conducted for Hamburger Gaswerke. Germany.

Study team member - Cutoff Creek Gas Pipeline Corridor Location Study. Natural resource inventory, constraint mapping, development and evaluation of corridor alternatives, design of mitigation measures. Planning Studio at U. of Calgary. Study prepared for Canterra Energy Ltd. Calgary, Alberta.

#### Environmental Planning – Waste Management, Remediation Projects

Senior environmental planner – Environmental Impact Statement (EIS) for the Remediation of the Sydney Tar Ponds and Coke Ovens Sites, STPA, Sydney, NS. The Project was subject to a Federal/Provincial Joint Review Panel under the *Canadian Environmental Assessment Act (CEAA)* and under the *Nova Scotia Environment Act*. The focus of the EIS was to identify potential Project-related environmental and socio-economic effects and the development of effects management and mitigation measures. The proposed remediation approach entails excavation and incineration of PCB-contaminated sediments, stabilization and solidification of the contaminated Tar Ponds and Coke Ovens sites, and long-term ground and surface water controls and monitoring. Federal and provincial funding of the Project amounts to \$400 million. Responsibilities included project management support, significant contributions to the EIS report, responses to the Panel's information requests, and undertakings during the Panel review hearing. The EIS was prepared for the Sydney Tar ponds Agency (STPA). The recommendations of the Panel are schedule for Summer 2006.

Project manager – Terrestrial Environment Baseline Characterization Study and Terrestrial Environment Effects Assessment for the Port Hope and Port Granby Projects. The two projects aim at the identification and implementation of long-term solutions for the management of low-level radioactive waste in the Port Hope and Port Granby areas. The projects entailed multi-season vegetation and wildlife field inventories, soil, grass and mammal tissue sampling, laboratory analyses, effects assessments, follow-up monitoring plans and report preparation. The draft and final reports were peer reviewed by consultants retained by the Municipality of Port Hope and presented to the affected communities. The study results served as technical contributions to the Environmental Assessments (screening level pursuant to CEAA) for the Port Granby and Port Hope Long-Term Low-Level Radioactive Waste Management Projects. Studies prepared for the Low Level Radioactive Waste Management Office (LLRWMO) of AECL, Port Hope, Ontario.

Assistant project manager – multi-disciplinary Metro/York landfill site search for the Interim Waste Authority. Responsibilities included: Co-ordination of more than 20 in-house experts and subconsultants, organization of field work and site access, supervision of geographic information management and analysis (GIS), multi-disciplinary site evaluation, public and review agency consultation (workshops and information centres), report preparation, client liaison, contract, budget administration, and work plan development. The project's consulting budget amounted to approx.

Can \$17 million, applied state-of-the-art planning technology and set new standards for environmental assessment and facility siting in Ontario.

Co-ordinator for the Landfill Site Selection and EA Process of the Lagos State Waste Management Project (Nigeria) including in-country environmental inspection and assessment of existing and proposed sites, identification of locations for long term disposal requirements, liaison and consultation with the Lagos State Planning Department and presentation of results to World Bank delegation. Lagos, Nigeria.

Senior environmental planner - Waste Transfer Facility, County of Wellington. The project represents a small component of a comprehensive study evaluating the current Wellington County waste management system and its individual components. The need for a new 50-to/day transfer station was established following the review of existing transfer capacities and the assessment of options for road-side pick up services. Responsibilities include a site selection study, public consultation (Open House sessions), report generation, and applications for Official Plan and municipal Zoning By-Law amendments. SNC Lavalin/County of Wellington, Guelph, Ontario.

Environmental Planner – Waste Management Master Plan (WMMP) Dufferin County. The WMMP included an analysis and evaluation of existing waste management facilities, current and future waste generation rates, development and assessment of alternative waste management systems, definition of the preferred approach to waste management, and a site selection for development of a new landfill site. Responsibilities included, contributions to landfill site selection, visual impact assessment, public consultation, and reporting. SNC-Lavalin/Dufferin County. Ontario.

Project manager for the environmental impact assessment and reclamation study for hazardous waste disposal site Georgswerder. The reclamation scheme aimed at innovative means for creating maximum on-site habitat diversity including herbaceous, woody and wetland vegetation communities without compromising the integrity of the engineered cover system. The study was prepared for the City of Hamburg. Germany.

#### Environmental Planning – Roads, Transportation, Water Resources

Environmental consultant - Class Environmental Assessment, Realignment Highway 101, Timmins, Ontario. Responsibilities included public consultation, evaluation of alternatives, development of mitigation and impact management measures, Class EA report generation, consultation with Ministry of Transportation (MTO); The study was prepared for the Porcupine Joint Venture (PJV) in accordance with the MTO Class EA process. Toronto. Ontario.

Co-ordinator for the biophysical and visual impact components of the Initial Environmental Evaluation of the Perley Bridge Replacement Project, Hawkesbury, Ontario - Grenville, Quebec; The project encompassed the allocation of a new highway corridor and a four lane bridge replacement. Public Works and Government Services Canada. Ontario/Quebec.

Senior project manager – environmental assessment and technical consultation for rail track twinning between Vleuten de Meern and Geldermalsen (VleuGel project); Responsibilities included: proposal development, team co-ordination, budget and schedule management, consulting on soil contamination, landscape ecology, water management, construction cost; and integration of municipal infrastructure. SIBU for DSO, Utrecht, The Netherlands.

Project Manager - environmental impact assessment of highway approach corridor and bridge replacement project Kiel-Holtenau. The project included extensive floristic inventories and habitat design measures. Landeshauptstadt Kiel, Germany.

Landscape Planner - Route delineation and environmental impact assessment. Highway 4. Bendtfeldt+Partner. Verkehrsministerium Kiel. The study included the development of extensive off-site compensation measures. Germany.

Acting project manager – Environmental Study Report, Class Environmental Assessment, Parry Sound District Dams. Identification and assessment of environmental impacts associated with the replacement of four stop-log operated dams with fixed weir structures. Responsibilities included, team co-ordination, evaluation of alternatives, development of mitigation measures, generation of project plan and summary report, public consultation, and client liaison. Study prepared for AMEC Earth & Environmental Ltd./ Ministry of Natural Resources, Bracebridge, Ontario.

Study team advisor for site suitability and environmental impact assessment - Vathia Ghonia Sewage Treatment Plant. The study included terrain analysis, assessment of erosion potential, site selection, road transport corridor delineation, development of mitigation measures, and description of anticipated residual environmental impact. Vathia Ghonia. Cyprus.

#### Environmental Planning – Urban Development, Site Planning

Process and senior project manager– water management infrastructure for Leidsche Rijn subdivisions Parkwijk Zuid, Parkwijk Noord, Papendorp Groenewoud, and Langerak 2; responsible for proposal, contract negotiations, development of water management plan, contract drawings and specifications, quality control, budget and schedule management, progress reporting. Samenwerkende Ingenieursbureaus Utrecht (SIBU) for Project Bureau Leidsche Rijn (PBLR); Utrecht, The Netherlands.

Senior environmental planner – Environmental Study Report, Class Environmental Assessment, site and landscape development plan for the development of a new Visitor Centre at Lake Superior Provincial Park. Responsibilities included: site inventory, evaluation of alternatives, site selection, mitigation and restoration, conceptual site and landscape development. EDA / Reich + Petch Architects for MNR - Ontario Parks. Ontario.

Project Manager - environmental assessment (screening level) pursuant to Canadian Environmental Assessment Act (CEAA) for the proposed McLevin Woods Residential Development (Habitat for Humanity Initiative). Responsibilities included site inspection, data review and assessment, agency consultation, report generation. EA study prepared for Public Works and Government Services, Canada, Toronto, Ontario.

Senior project co-ordinator – environmental assessment of development concept for Sulaibikhat Bay, Kuwait (project still ongoing). Responsibilities include team co-ordination, initial environmental assessment, development of environmental strategy, generation of environmental and design reports, in-country project presentation. EDA Collaborative Inc./Shal Al Bannai, Toronto and Kuwait.

#### Landscape Development Concepts, Green Plans, Master Plans

Assistant project manager for the Integrated Shoreline Management Plan, a pilot project prepared for the Metropolitan Toronto and Region Conservation Authority for 35 km of highly urbanized Lake Ontario

Shoreline. The plan followed an innovative ecosystem approach to shoreline management and community involvement. For plan implementation a comprehensive set of development control policies were established. Responsibilities included: study team co-ordination, client liaison, conceptual approach to ecosystem health, strategy integration, development control policies, report generation, various public consultation activities. MTRCA. Ontario. Canada.

Project manager for environmental impact assessment of industrial expansion in the urban fringe including design of staged on- and off-site mitigation and compensation concept. Paper plant extension, Feldmühle AG, Werk Uetersen. The study included the development of an innovative approach to calculating quantitative and qualitative compensation requirements to achieve no-net-habitat-loss policy objectives. Germany.

Project manager, environmental impact assessment for industrial park expansion; telecommunication centre Elmshorn; project included design of on-site mitigation measures for visual integration, maximizing surface water infiltration and surface water runoff retardation; prepared for Oberpostdirektion Hamburg. Germany.

Project manager; conceptual landscape development plan for urban fringe area Kiel-Meimersdorf. The study focused on landscape suitability analysis, preservation of rural heritage features, landscape rehabilitation (habitat network) and development guidelines for residential and commercial developments; prepared for the City of Kiel. Germany.

Project manager; master plan, open space system and public parklands, residential subdivision B-85 Itzehoe; aiming at sustained development the concept included three stormwater retention ponds, open channel stormwater management system, wetland design, grading and planting plan. Prepared for City of Itzehoe. Germany.

Project manager; conceptual landscape development plan for urban fringe area Drachensee - Russee; The study included development of a zoning concept, access regulations and a vegetation management scheme for a proposed nature reserve, as well as the design of restoration measures for historic landscape park elements, recommendations for an interpretive trail system, and land use guidelines. Noteworthy components of the study include the extensive habitat inventory covering both, built-up areas and open spaces and an innovative approach to habitat evaluation. Prepared for the City of Kiel. Germany.

Project manager; urban landscape development plan for the borough of Dietrichsdorf-Neumühlen. The study focused on open space analysis, habitat surveys and assessment, design concepts for abandoned navy and docklands, open space revitalization schemes and ecological design of linear parks. Prepared for the City of Kiel. Germany.

Landscape Planner - Management Concept for a Kootenay Plains Ecological Reserve. Vegetation mapping, wildlife and land use inventory; development of resource management schemes, recreational use regulations, visitor management. Thesis at U. of Calgary sponsored by Alberta Natural Resources and Energy. Alberta.

### Visual Impact Assessments

Project manager for visual impact assessment of proposed gas processing plant including a 300 ft flare stack. Study for Mobil Oil Canada as the lead proponent of the Sable Offshore Energy Project. Halifax, Nova Scotia.

Co-ordinator for the visual impact assessment, rehabilitation and after use studies for the Interim Waste Authority's site search projects in the Regions of Peel, Durham and Metro/York. Ontario.

Senior environmental planner responsible for the visual impact assessment for the Georgian Triangle Waste Management Master Plan for Simcoe County. Ontario.

Study team expert responsible for the assessment of visual impacts related to bridge replacement. Initial Environmental Evaluation for the Perley Bridge Replacement Project, Hawkesbury, Ontario - Grenville, Quebec, Public Works and Government Services Canada.

Study team member responsible for visual impact assessment component of the Initial Environmental Assessment of the proposed Muskoka Medium Security Correctional Facility (Ontario). Public Works and Government Services Canada.

Project manager for route location study and environmental impact assessment with emphasis on visual impact assessment for 110 kV power transmission line, Abzweig Glückstadt, Preussen Elektra, Lübeck. Germany.

### Habitat / Wetland Design

Landscape Architect and Senior Environmental Planner – Environmental Impact Study and Landscape Restoration Plan for the proposed bridge protection and shoreline rehabilitation work at Lawrence Avenue East and Highland Creek. Study prepared for UMA Engineering Ltd. and TRCA, Toronto, Ontario, Canada.

Landscape Architect. Port Union Village Commons: Conceptual shoreline habitat and recreation design for Lake Ontario waterfront including facilitation of design workshop discussions. Totten Sims Hubicki. Ontario, Toronto, Canada.

Landscape Architect responsible for Environmental Protection Plan Details: Wetland Compensation; Initial Environmental Evaluation of the Perley Bridge Replacement Project, Hawkesbury, Ontario - Grenville, Quebec. Responsibilities included: site analysis, preliminary design, final design; contract drawings and specifications. Public Works and Government Services Canada.

Landscape Architect responsible for the conceptual design for habitat creation in context of the establishment of a 60.000 m<sup>3</sup> stormwater detention pond in the City of Windsor, Essex Region Conservation Authority, Ontario.

Study team advisor on habitat creation for a Detroit River shoreline protection project conducted for the Essex Region Conservation Authority. Ontario.

Project manager; master plan and management concept for designation of an exploited lime pit as a significant nature reserve within the Municipality of Klein Nordende. The project included vegetation

mapping and evaluation, assessment of geological and archaeological inventory, development of zoning, access and parking design, trail system, grading plan, planting and management scheme, staged implementation and construction schedule. Germany.

Project manager; stream rehabilitation study including natural channel design, integration into adjacent landscape structure, planting scheme and habitat management, Amt für Land und Wasserwirtschaft (Conservation Authority), Itzehoe. Germany.

Project manager; pond and wetland design "Wieneke"; preliminary and detailed design for establishment of wildlife habitat; Provincial habitat stewardship program, Conservation Authority Itzehoe. Germany.

Project manager; stormwater retention pond and wetland design including environmental impact assessment, conceptual design, grading plan, planting scheme, and cost estimate; prepared for Municipality of Tornesch. Germany.

### Miscellaneous

Project Manager – Updating of training course material on Canadian Environmental Assessment Act (CEAA) provisions and regulations. Responsibilities included review of Canadian Environmental Assessment Act (CEAA) amendments, review of participants and facilitators training course manuals; updating of slide presentations and speakers notes; co-ordination and consultation with Public Works and Government Services Canada (PWGSC) Ontario Region. PWGSC, Toronto, Ontario

Acting project manager, Native Community Centre Toronto (NCCT) Feasibility and Design Project, Phase 1: Need Assessment and Structural Review. The project encompassed an extensive consultation of numerous First Nations user groups of the NCCT and a discussion of alternative scenarios and floor plans. Toronto, Ontario.

Project manager; urban street tree inventory and cadastral database; the project included a tree survey, assessment of tree health parameters, and development of management recommendations. City of Tornesch, Germany.



# John Schupner, M.Sc.

Associate Risk Assessor / Project Manager

## Professional summary

Mr. Schupner is an ecotoxicologist with 20+ years of experience, primarily in the Oil and Agrichemicals industries. He has experience in ecological risk assessment, management of ecotoxicology testing programs, and conduct of a broad array of ecotoxicology studies as mandated in the European Union (Directive 91/414/EEC) and in the United States (FIFRA, TSCA, and CWA-NPDES). He has provided ecotoxicology expertise, product marketing and regulatory support to internal and external customers worldwide. He has supervised operations at industrial ecotoxicology laboratories (Exxon Biomedical Sciences, Inc., NOR-AM Chemical Company, AgrEvo USA Company) with a staff of 6 to 10 personnel.

## Professional qualifications

OSHA 40 Hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training (29 CFR 1910.120(e)).

## Education

Completed 87 credit hours towards Ph.D. at East Carolina University, Greenville, NC, 2000-2005

M.S., Environmental Science, Rutgers University, New Brunswick, NJ, 1988

B.S., Biology, State University of New York, College at Brockport, NY, 1977

## Memberships

Society of Environmental Toxicology and Chemistry (SETAC)  
(Co-chaired poster session at 19<sup>th</sup> annual meeting).

Carolinas Chapter of SETAC (founding member and former treasurer).

Hudson Delaware Chapter of SETAC

American Fisheries Society (AFS)

North Carolina Chapter of AFS (former member)

Tidewater Chapter of AFS (former member)

## American Society for Testing and Materials

### Committee E47 on Biological Effects and Environmental Fate

#### Subcommittees:

- E47.01 on Aquatic Assessment and Toxicology
- E47.02 on Terrestrial Assessment and Toxicology
- E47.03 on Sediment Assessment and Toxicology
- E47.04 on Environmental Fate of Chemical Substances
- E47.05 on Risk Assessment, Communication and Management

## Former Memberships

### CropLife America

- Ecological Risk Assessment Work Group
- Fish Full Life Cycle Work Group
- Ecological Effects Rejection Rate Analysis Work Group

## Languages

English

## Summary of core skills

### Ecological Risk Assessment

Mr. Schupner uses his expertise and experience in ecotoxicology and the environmental sciences to evaluate the hazards and risks of stressors to potential receptors, from single species to entire systems. He has performed ecological risk assessments primarily in support of product registration of agrichemicals and petroleum products, but also in the assessment of potential effects of chemical and petroleum spills, effluent discharges, and superfund cleanup activities. He has coordinated contract laboratory support, as well as in-house laboratory capabilities, for several companies. Mr. Schupner is thoroughly familiar with USEPA and OECD guidelines and Good Laboratory Practices as applied in the laboratory and in the field. He has had extensive training in health and safety procedures.

### Employment history

03/2006 to present: Associate Risk Assessor / Project Manager, AMEC Earth and Environmental, Somerset, NJ 08873.

01/2000 to 01/2005: Doctoral Fellowship, East Carolina University, Greenville, NC 27858.

12/1989 to 8/1999: Group Leader Ecotoxicology, AgrEvo USA Company (formerly NOR-AM Chemical Company, now acquired by Bayer), Pikeville, North Carolina 27863

02/1983 to 12/1989: Associate Technologist - Ecotoxicology, Exxon Biomedical Sciences, Inc. (now Exxon-Mobil), East Millstone, NJ 08875

2/1981 to 2/1983: Research Assistant – Aquatic Toxicology, Cornell University, Cooperative Fishery Research Unit, Ithaca, NY 14853

9/1979 to 2/1981: Research Assistant – Aquatic Toxicology, Union Carbide Corporation Environmental Services, Tarrytown, NY 10591

## Presentations

Schupner, J. K. 1998. Ecotoxicology risk comparisons to support buprofezin as a reduced risk pesticide. Presented at USEPA-OPP, Washington, DC on behalf of AgrEvo USA Company, Pikeville, NC.

Schupner, J.K., G.E. Bragin, W.J. Konkel, and G.R. Biddinger. 1988. A *Mysidopsis bahia* culturing system for the continuous production of neonates for toxicity testing. Poster presented at the 9th annual meeting of the Society of Environmental Toxicology and Chemistry, Arlington, VA. (Abstract published).

Schupner, J.K., R.K. Markarian, L.T. Connor, and E.L. Leonard. 1984. A *Daphnia magna* culturing system for the production of neonates for toxicity testing. Poster presented at the 5th annual meeting of the Society of Environmental Toxicology and Chemistry, Arlington, VA. (Abstract published).

## Publications

### TECHNICAL REPORTS (partial list):

Schupner, J. K. 1998a. Ecotoxicology risk comparisons to support Buprofezin as a reduced risk pesticide. AgrEvo USA Company, Pikeville, NC. (presentation and submission to USEPA).

Schupner, J. K. 1998b. EC Directive (91/414/EEC) Registration requirements for plant protection products; Annex II, Part A: Chemical substances; Tier 2 summary for active substances; Common name of compound: propamocarb hydrochloride. AgrEvo USA Company, Pikeville, NC. AgrEvo UK Ltd.

Schupner, J. K., Christ, M. T., and D. F. Ruff. 1997a. Metamitron + Desmedipham + Phenmedipham + Ethofumesate; suspo-emulsion 200+60+60+60 g/L; Code: AE F082617 01 SE35 A1 (KH 94-3): Effect to *Pseudokirchneriella subcapitata* (green alga) in a growth inhibition test (method OECD). Rep.No.: O104E/H116/8. Doc. No.: A63782. Reg.Fil.No.: DMP/W158. Reg.Fil.No.: ETHO/W204-1. Reg.Fil.No.: PMP/W325. AgrEvo USA Company, Pikeville, NC.

Schupner, J. K., Christ, M. T., and D. F. Ruff. 1997b. Ofurace technical 98.6% w/w; Code: AE F057623 001C99 0001- 96 hour acute toxicity to the rainbow trout, *Oncorhynchus mykiss*, in a static system. Study No.:

502BW. Rep.No./Org.: O003b/H086. Doc. No.: A89939. Reg.Fil.No.: OFURACE/W60-1. AgrEvo USA Company, Pikeville, NC. AgrEvo UK Ltd.

Schupner, J. K. and B. J. Stachura. 1997. Buprofezin; 99%; Code: HOE 064503 00 ZD99 0001; Effects on early life stages of rainbow trout (U.S.EPA 72-4). AgrEvo study No.: 536BF. Rep.No.: O501/U037. AgrEvo USA Company, Pikeville, NC.

Christ, M. T., Ruff, D. F., and J. K. Schupner. 1995. Hoe 095404: The acute toxicity to duckweed (*Lemna gibba* G3) in a static system. AgrEvo study No.: 500BS. Doc. No.: A54278. AgrEvo USA Co., Pikeville, NC.

Schupner, J. K. and B. J. Stachura. 1995. Hoe 125869 technical: The 96 hour acute toxicity to the mysid (*Mysidopsis bahia*) in a flow through system. Rep.No.: O003Y/U012. Doc. No.: A54279. AgrEvo USA Company, Pikeville, NC.

Stachura, B. J. and J. K. Schupner. 1995. Hoe 125869 technical: The 96 hour acute toxicity to sheepshead minnow (*Cyprinodon variegatus*) in a flow through system. Rep.No.: O003X/U012. Doc. No.: A54280. AgrEvo USA Company, Pikeville, NC

Schupner, J. K. 1994a. The acute toxicity of Formetanate HCl to the green algae, *Selenastrum capricornutum*, in a static system. NOR-AM Study No.: 506Y. Doc. No.: A60593. Reg.Fil.No.: FORMETANATE/W95. NOR-AM Research Center, Pikeville, NC.

Schupner, J. K. 1994b. The toxicity of Bendiocarb technical to early life stages of the rainbow trout *Oncorhynchus mykiss*, in a flow-through system . NOR-AM Study No.: 504A. Reg.Fil.No.: BENDIOCARB/T390. NOR-AM Research Center, Pikeville, NC.

Young, B. M. and J. K. Schupner. 1994. Betanal Progress (cq 1550.01): effects on life-cycle of *Daphnia magna* in a static renewal system. NOR-AM Study No.: 507AH. Doc. No.: A62686. Reg.Fil.No.: PMP/W284. NOR-AM Research Center, Pikeville, NC.

Schupner, J. K. and M.T. Christ. 1993a. The toxicity of Clofentezine technical to early life stages of the rainbow trout, *Oncorhynchus mykiss*, in a flow through system. NOR-AM Study No.: 502J. Doc. No.: A82576. Reg.Fil.No.: NC21314/W96-1. NOR-AM Research Center, Pikeville, NC.

Schupner, J. K. and M.T. Christ. 1993b. The prolonged toxicity of SN 100309 technical to rainbow trout, *Oncorhynchus mykiss*, in a flow-through system. NOR-AM Study No.: 506AN. Doc. No.: A81898. Reg.Fil.No.: SN 100309/W33-1. NOR-AM Research Center, Pikeville, NC.

Young, B. M. and J. K. Schupner. 1993. A *Daphnia magna* 21 day reproduction study of Betanal Trio OF in a static renewal system. NOR-AM Study No.: 504AH. Doc. No.: A62664. Reg.Fil.No.: PMP/W263. NOR-AM Research Center, Pikeville, NC.

Schupner, J. K. and M.T. Christ. 1992. The toxicity of Formetanate-HCl technical to early life stages of the fathead minnow, *Pimephales promelas*, in a flow through system. NOR-AM Study No. 501Y. Doc. No.: A60587. Reg.Fil.No.: FORMETANATE/W91. NOR-AM Research Center, Pikeville, NC.

Schupner, J. K. and B. J. Stachura. 1992a. The acute toxicity of Ethofumesate technical to the sheepshead minnow (*Cyprinodon*

*variegatus*) in a static system. NOR-AM Study No.: 506B. Doc. No.: A83384. Reg.Fil.No.: NC8438/W128-1. NOR-AM Research Center, Pikeville, NC.

Schupner, J. K. and B. J. Stachura. 1992b. The acute toxicity of Ethofumesate technical to the mysid shrimp, *Mysidopsis bahia*, in a static system. NOR-AM Study No.: 508B. Doc. No.: A83389. Reg.Fil.No.: NC8438/W134-1. NOR-AM Research Center, Pikeville, NC.

Schupner, J. K. and B. M. Young. 1992. A *Daphnia magna* 21 day reproduction study of Formetanate-HCl technical in a flow through system. NOR-AM Study No. 500Y. Doc. No.: A60588. Reg.Fil.No.: FORMETANATE/W92. NOR-AM Research Center, Pikeville, NC.

Schupner, J. K. 1991. The acute toxicity of MITC to *Daphnia magna* in a flow through system. NOR-AM Study No.: 500AF. Doc. No.: A91770. Reg.Fil.No.: MITC/W147-1. NOR-AM Research Center, Pikeville, NC.

Schupner, J. K. and B. J. Stachura. 1991. The Acute Toxicity of BTS 27271 to the Bluegill Sunfish, *Lepomis macrochirus*, in a Flow Through System. NOR-AM Study No.: 513L. Doc. No.: A86906. Reg.Fil.No.: Amitraz/W126. NOR-AM Research Center, Pikeville, NC.

Schupner, J. K. and B. M. Young. 1991. The Acute Toxicity of BTS 27271 to the Rainbow Trout, *Oncorhynchus mykiss*, in a Flow Through System. NOR-AM Study No.: 512L. Doc. No.: A86905. Reg.Fil.No.: AMITRAZ/W125. NOR-AM Research Center, Pikeville, NC.

Schupner, J. K. 1981a. The acute toxicity of methidathion (SupracideR) to the rainbow trout, *Salmo gairdneri* Richardson. Union Carbide Corporation Environmental Services Project No. 11506-04-05. Tarrytown, New York.

Schupner, J. K. 1981b. The acute toxicity of methidathion (SupracideR) to the bluegill sunfish, *Lepomis macrochirus* Rafinesque. Union Carbide Corporation Environmental Services Project No. 11506-04-06. Tarrytown, New York.

Schupner, J. K. 1980a. The acute toxicity of NC 20484 to the bluegill sunfish, *Lepomis macrochirus* Rafinesque. Doc. No.: A80223. Reg.Fil.No.: NC20484/W16-1. Union Carbide Corporation Environmental Services (UCCES) Rep.No.: METAB/80/27. Tarrytown, New York.

Schupner, J. K. 1980b. The Acute Toxicity of Technical Grade (95.6%) Temik to the Mysid Shrimp, *Mysidopsis bahia*. Union Carbide Corporation Environmental Services (UCCES) Project No 11504-14-01. Tarrytown, New York.

Schupner, J. K. 1980c. Acute toxicity of RU-25474 (Tralomethrin TC) to Grass Shrimps, *Palaemonetes pugio*. Doc. No.: A72986. Union Carbide Corporation Environmental Services. Rep.No.: UC-4BE-11507.74.13/A. Tarrytown, New York.

Schupner, J. K. 1980d. Acute toxicity of RU-25474 (Tralomethrin TC) to Common Mummichog, *Fundulus heteroclitus* (Linnaeus). Doc. No.:A72978. Union Carbide Corporation Environmental Services. Rep.No.: UC-4BE-11507.74.14/A. Tarrytown, New York.

## Detailed core skills or details by project

Associations and specific project scopes involving product stewardship are considered business confidential unless explicitly released, in writing, by AMEC's client.

Confidential client, New York, New York: Reviewed and summarized TMDL documents from the EPA database or State water quality agencies, identifying modeling approach, outcome, and site specific water quality criteria (ongoing). Reviewed and commented on USEPA Re-registration Eligibility Document (RED) for pesticides.

Confidential client, Canada: Reviewed and revised an Environmental Impact Statement for the client's project. Responded to the regulatory requests for information and analysis of environmental impacts of the project on human health and the environment (terrestrial and marine).

Confidential client, NJ. Prepared a site mitigation plan for wetlands and uplands to be disturbed as part of an Interim Remedial Measure (IRM) at a PCB contaminated site.

Confidential client, PA. Performed literature search and prepared summary document assessing the company product and current status of legacy contamination in Italy.

## CONTINUING EDUCATION / TRAINING:

Environmental Sampling in Aquatic Ecosystems, Hudson Delaware Chapter SETAC Annual Meeting, 04/07

Data Collection, Mapping, and Data Management in Aquatic Ecosystems, Hudson Delaware Chapter SETAC Annual Meeting, 04/07

Food Chain Modeling Using Probabilistic Techniques, SETAC 27th Annual Meeting 11/06, Montréal, Québec

Use of the ICE and ACE Modeling Tools to Estimate Aquatic Species Sensitivity to Contaminants, SETAC 27th Annual Meeting 11/06, Montréal, Québec

Mercury in Fisheries. Presentation by Dr. David Evans, NOAA. ECU-AFS business meeting. East Carolina University, Greenville, NC. 03/05.

Workshop on Research and Collaborative Opportunities for Social Science and Fisheries, East Carolina University, Greenville, NC. Fall 2003.

Robert's Rules Workshop: Professional development workshop, ECU-AFS. East Carolina University, Greenville, NC. 02/01.

Application of Geographic Information Systems (GIS) Technology to Water Quality Problems, SETAC 21<sup>st</sup> Annual Meeting, Nashville, TN, 11/00

Aquatic Microscopic Anatomy and Pathology, SETAC 17<sup>th</sup> Annual Meeting, Washington, DC , 11/96

Science Communication, SETAC 17<sup>th</sup> Annual Meeting, Washington, DC, 11/96

Practice of Modern HPLC, LC Resources, Inc., Goldsboro, NC, 06/96

Laboratory Safety and Health, ACS Short Course, Raleigh, NC, 04/96

Statistical Methods and Software for Toxicological Data Analysis SETAC, 15th Annual Meeting, Denver, CO, 11/94

Aquatic Ecological Risk Assessment: Methods and Applications, Duke University, Durham, NC, 09/94

Environmental Assessment of Pesticides in Florida, SETAC, 14th Annual Meeting, 11/93

Quality Assurance and Quality Control for Field Sampling and Monitoring Programs, SETAC, 14th Annual Meeting, 11/93

Bioassessment Strategies and Implications of Biocriteria, Tetra Tech, Inc., Wash., DC, 06/93

Presentation Skills Workshop. Nelson Communications Consultants. Goldsboro, NC. 06/93

FIFRA and TSCA Adverse Effects Data Reporting, NOR-AM Chemical Company, Pikeville, NC, 3/93

Workshop on Quality Assurance Issues, SETAC/Carolinas Chapter Annual Meeting, 03/92

TOXNET: Good Information on Bad Chemicals, SETAC, 12th Annual Meeting, 11/91

Graphical and Analytical Approaches to Toxicological Data Analysis, SETAC, 12th Annual Meeting, 11/91

Environmental Toxicology and Risk Assessment, Duke University, Durham, NC, 03/91

Freshwater Sediment Toxicology, SETAC, 11th Annual Meeting, 11/90

Environmental Sciences and Good Laboratory Practice Compliance Programs, SETAC, 11th Annual Meeting, 11/90

SAS Basics I. SAS Institute Inc., Cary, NC. 06/90

SAS Basics II. SAS Institute Inc., Cary, NC. 06/90

Recent Developments in Toxicity Identification/Reduction Evaluations, SETAC, 9th Annual Meeting, 11/88

U.S. and Canadian Effluent Toxicity Testing Procedures, SETAC, 7<sup>th</sup> Annual Meeting, 11/86

Quality Assurance in Eco-toxicology, SETAC, 7<sup>th</sup> Annual Meeting, 11/86

Fish Embryo/Larval Test Methods, USEPA, Duluth, MN, 05/83

Good Laboratory Practice Regulations, Bio/dynamics, Inc., East Millstone, NJ, 10/84

Mysid Shrimp Culture, USEPA/API/NTSU, Pensacola, FL, 10/86

**John T. Melick**  
287 Taylorsville Mountain Road  
Pitman, PA 17964  
570-648-3162

## **WORK HISTORY**

**January 2002 to January 2007 Maurer & Scott Sales, Inc. Lehigh Valley , PA**

**Vice President, Operations** Manage the day to day operations of an explosive service and supply company. As part of a 3-person management team, direct operations as company has grown by 100% in a 4-year period. Operations have been profitably maintained throughout this period of increased focus on security and compliance without a decrease in level of customer service.

**October 1990 to January 2002 Maurer & Scott Sales, Inc. , Lehigh Valley, PA**

**Senior Technical Representative** for an explosives service and supply company. Annual sales of \$3.5 Million of blasting services individually developed and maintained in the eastern PA and NJ market areas. Customer base included many major aggregate and mineral producers. Day to day responsibilities involved the design and execution of compliant production blasts.

**October 1986 to October 1990 Brooks Equipment Company, Lehigh Valley, PA**

**Vice President and Principal** of an equipment supply company that represented various manufacturers. Designed and supplied engineered aggregate processing systems

**April 1980 to October 1986 Coplay Cement Company, Nazareth, PA**

**Manager of Operations Analysis** - responsible for the preparation and administration of the operating budgets for 4 cement manufacturing facilities

**Production Superintendent** of a 1million TPY preheater cement plant

**Quarry Superintendent** of two limestone quarries.

**April 1975 to April 1980 Island Creek Coal Company, Craigsville WV**

**General Mine Foreman.** Gauley Eagle Surface Mine- Directed union work force in all operations of production of 1 million TPY of bituminous coal. Developed the first successful application of diesel-electric trucks in downhill haul mountaintop removal mining methods.

## **EDUCATION / CERTIFICATIONS**

**Bachelor of Science, Mining Engineering, Penn State University, March 1975**

**Professional Engineer, Commonwealth of Pennsylvania, PE-029679-E**

### **Licensed Blaster**

Pennsylvania #BL-4488.

New Jersey #00112- grade S-1

Maryland #129 Class B

**BATF Employee Possessor #8PA00470**

**BATF Responsible Person #8PA00477**



**Continuing Education**

ISEE Annual Conference 1991,1995,1998,2003,2005

Vibra Tech-Geosonics Vibration Seminar 2000,2004

Pennsylvania Blasting Conference 1991,1993,1995

# Hugh R. Fraser

## Curriculum Vitae

### Education

1990-1992 – Master of Journalism, Carleton University, Ottawa, Ontario

1985-1989 – Bachelor of Arts (Honours), English, Dalhousie University, Halifax

### Employment

April 2006 – Present – Senior Public Relations Counsel, Bristol, Halifax

November 2004 – March 2006 – Press Secretary to John Hamm, Premier of Nova Scotia

April 2001 – November 2004 – Producer, *Canada Now*, *The Docket*, *Information Morning*, CBC Television/Radio, Halifax

October 2000 – April 2001 – Communications Advisor, Health Canada, Halifax

December 1999 – July 2000 – Communications Advisor, N.S. Department of Transportation & Public Works

1992-1999 – Writer/editor/producer, *CBC Morning News*, *CBC Newsworld*, Halifax

### Volunteer Activities

Coach, Chebucto and Conrose Minor Baseball, Halifax (2004 – present)

Board member, Canadian Public Relations Society, Nova Scotia chapter. (2006 – 2007)

Team captain, Rick Hansen Wheels In Motion fundraising wheelchair relay race (2007)

### Interests and Activities

My three amazing, exhausting sons.

Politics, media, and pop culture; hockey and baseball; music, movies and books.

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