

## Appendix A

### Qualifications of Personnel Conducting Surveys for Migratory Birds, Species at Risk and Species of Conservation Concern, and Wetland Delineations



A Terrestrial Ecologist and Discipline Lead (vegetation and soils) with Stantec Consulting in St. John's, NL, Sean Bennett has worked in the environmental industry for more than 15 years with experience in Alberta, British Columbia, the Yukon, Nunavut, North West Territories and Newfoundland and Labrador's environmental, natural resources, mining, energy and forestry sectors. As an environmental professional with a focus on the assessment and characterization of terrestrial ecosystems, Mr. Bennett has provided technical expertise to numerous large and small-scale conventional oil and gas, heavy oil (insitu), oil sands, mining, infrastructure and forestry projects. As the Discipline Lead for vegetation and soils, Mr. Bennett is experienced in project, discipline and team management, QA/QC protocol development and implementation, and coordination and execution of a wide array of office and field programs. His exposure to various sectors has provided him with experience in land use planning, oil and gas and mine site development/operations/maintenance/closure, federal and provincial regulatory approval and permit acquisition, public consultation and community meetings. Mr. Bennett has coordinated and been responsible for numerous literature reviews, environmental overviews, environmental assessments, environmental impact assessments, air photo interpretation (hard and soft copy), Ecological Land Classification (vegetation mapping), environmental monitoring, project planning, communication and budgeting, data management and synthesis, and technical reporting.

## EDUCATION

Bachelor of Science, Faculty of Forestry and Environmental Management, University of New Brunswick, Fredericton, NB, 1997

General Studies/Pre-Forestry Program, Memorial University, St. John's, NL, 1994

## REGISTRATIONS

Professional Forester, College of Alberta Professional Foresters

Professional Biologist, Alberta Society of Professional Biologists

## MEMBERSHIPS

Member, Canadian Land Reclamation Association

Member, Alberta Native Plant Council

## AWARDS

2008 Top Contributor Award, Gartner Lee Limited

2006 Top Contributor Award, Gartner Lee Limited

## PROJECT EXPERIENCE

### Environmental Assessments

Gunnar Mine Site Rehabilitation Project Environmental Assessment\*, Uranium City, Saskatchewan (Discipline Lead)

*Discipline lead, lead botanist, and field supervisor for detailed vegetation surveys and rare plant surveys in support of the EIS and project permit applications (2009). Participated in the development of the environmental assessment for the reclamation/rehabilitation of the Gunnar Uranium Mine Project. As a key member of the EA Team, participated in various components of the baseline study and environmental assessment for the proposed remediation of the Former Gunnar Uranium Mine. Lead author for the vegetation technical reports, including ecological land classification and rare plants, for the baseline section of the EIS. Provided background research and writing for the information synthesis (literature review/gap analysis) of current state of knowledge for the Gunnar Mine - Vegetation sections. Authored sections of baseline and technical documents.*

Pre-Disturbance Environmental Assessments and Conservation and Reclamation Planning\*, Cold Lake, Alberta (Discipline Lead)

*Responsible for overseeing the collection and interpretation of biophysical data (ecosystem classification, detailed vegetation assessments, soil classification, rare plant surveys, weed surveys, etc) and prescription of reclamation alternatives for proposed heavy oil (insitu) developments in the boreal forest natural region.*

**Sean M. Bennett** B.Sc., R.P.F., P.Biol.

Senior Terrestrial Ecologist

**Quirk Creek Deep Gas Drilling Program Pre-Site Environmental Site Assessment\*, Millarville, Alberta (Project Manager and Discipline Lead)**

*Responsible for the management and coordination of pre-site environmental assessments of forested ecosystems and the identification of environmentally sensitive areas with respect to potential impacts resulting from proposed construction activities on vegetation, soils, wildlife species of concern and water resources in the Lower Foothills Natural Region.*

**Tilley/Princess Shallow Gas Drilling Program (Phase II to IX) Pre-disturbance Environmental Assessment\*, Brooks/Tilley, Alberta (Project Manager and Discipline Lead)**

*Responsible for the management and coordination of pre-site environmental assessments in native prairie ecosystems and the identification of environmentally sensitive areas with respect to potential impacts resulting from proposed construction activities on vegetation, soils, wildlife species of concern and water resources in the Grasslands Natural Region.*

**Environmental Monitoring\*, Various (Terrestrial Ecologist)**

*Responsible for the development of Environmental Response Plans (ERP's), monitoring and environmental inspection of construction projects related to expanding oil and gas development, ensuring regulatory compliance with federal and provincial acts, regulations and guidelines.*

**Environmental Assessments and Biophysical Inventories\*, Various (Terrestrial Ecologist/Project Manager)**

*Wildlife habitat collection, compilation and interpretation of ecological data (terrestrial ecosystem mapping, detailed vegetation inventories, soil classification (CSSC), wetland inventories, rare vascular plant surveys, invasive weed surveys, etc. in a variety of habitats.*

**Environmental Impact Assessments**

**Kami Iron Ore Project Baseline and Environmental Impact Assessment;, Labrador City, NL (Discipline Lead)**  
*Discipline lead and field supervisor for Vegetation, Rare Plants and Wetlands at Alderon Iron Ore Corp's Kami Iron Ore Project in western Labrador (2011-Present). Developed and implemented detailed vegetation, rare plant and wetland surveys in support of the EIS and project permit applications from start up through to present including baseline studies and environmental impact assessment. Lead author for the vegetation technical reports, including ecological land classification, rare plants and wetlands, for the baseline and EIS reports.*

**Calgary International Airport Parallel Runway Project Biophysical Baseline and Environmental Impact Assessment\*, Calgary, AB (Discipline Lead)**

*Vegetation, Rare Plants and Wetlands discipline lead for the Calgary Airport Authority's Parallel Runway Project (2008-2010). Responsible for preparing and monitoring the work scope, schedule and budget, and for liaison with the client, project team members and subcontractors. Prepared the baseline and environmental impact studies for the vegetation section of the EIA.*

**Aurora Energy Michelin Mine (Uranium) Project Environmental Assessment, Postville, NL (Discipline Lead)**  
*Discipline Lead (Vegetation/Soils) for terrestrial components of the baseline program for the proposed Aurora Energy Resources Inc. Michelin Mine Project, Postville, Labrador (2010-Present). A project to classify forest, wetland, and alpine ecosystems within Aurora Energy Resources Inc.'s Michelin Development claim block and access road in central Labrador. Responsibilities in this project include: (i) field assessment and classification of soils to CSSC standard; (ii) quality control of collected soils data; (iii) report on vegetation and soil units within the project area.*

**Lower Churchill Hydroelectric Labrador-Island Transmission Link Project, St. John's, NL (Scientist / Project Management Support)**

*Component Lead and author of vegetation baseline programs and associated environmental assessment of the proposed Nalcor Energy hydroelectric development on the Lower Churchill River in Labrador.*

**Casino Mine Project Environmental Impact Assessment\*, Southwest Yukon (Ecological Land Classification (ELC) Discipline Lead)**

*Responsible for terrestrial components of baseline assessment for the proposed Casino Mine project in the southwest Yukon. Planning and coordination of the 2008-2010 baseline assessment programs including extensive field studies supporting the environmental impact assessment.*

**Izok Mine Project Environmental Impact Assessment\*, Nunavut (Ecological Land Classification (ELC) Team Lead)**

*Responsible for the coordination and collection of baseline data associated with the proposed mine site and transportation corridor as part of the baseline environmental assessment for the Izok Mine project. Human Health and Ecological Risk Assessment (HHERA) Discipline Lead responsible for coordination of field programs and collection of baseline trace metal samples (soils, vegetation & small mammals) associated with the Izok Mine project.*

\* denotes projects completed with other firms

**Sean M. Bennett** B.Sc., R.P.F., P.Biol.

Senior Terrestrial Ecologist

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### **Environmental Mitigation and Monitoring**

#### **Mitigation and Monitoring, Various\* (Terrestrial Ecologist/Project Manager)**

*Responsible for the development of Environmental Projection Plans (EPP's), monitoring and environmental inspection of construction projects related to expanding oil and gas development, ensuring regulatory compliance with federal and provincial acts, regulations and guidelines.*

### **Fish Habitat Services**

#### **Fish and Fish Habitat Assessments\*, Various (Terrestrial Ecologist/Project Manager)**

*Fish and fish habitat assessment and inventory, stream-crossing assessments, as well as mitigation, restoration and erosion and sediment control planning.*

### **Research**

#### **Lodgepole Pine Growth and Yield Trials – Foothills Growth and Yield Association\*, Alberta Foothills**

*Contracted to establish, measure, analyze and maintain field trials to monitor the development of lodgepole pine regenerated after harvesting, in relation to site, initial spacing of planted stock, natural ingress and mortality, competing vegetation (brush), and density control (pre-commercial thinning) for use in evaluating stand development and timber yields.*

### **Terrestrial Assessments**

#### **Vegetation, Soils and EA Legislation\*, Western Canada (Program Manager/Discipline Lead (Vegetation/Soils))**

*Extensive experience with vegetation, soils and EA legislation in western Canada, including provincial and federal regulatory agencies (e.g., ERCB, NEB and CEAA). Project planning and coordination, scheduling, budgeting, fieldwork coordination, and client reporting.*

### **Wildlife Biology**

#### **Harlequin Duck Population Surveys, Labrador and Northern Newfoundland (Terrestrial Ecologist), NL (Terrestrial Ecologist)**

*Aided in the delivery of aerial helicopter surveys for Harlequin Duck (*Histrionicus histrionicus*) on various river segments in Labrador and the Great Northern Peninsula of insular Newfoundland.*

#### **Aerial Wildlife Surveys, EmeraNL Maritime-Island Transmission Link Project, St. John's, NL (Project Coordinator/Observer)**

*Aided in the delivery of aerial (helicopter) wildlife surveys (6) along the 1,100 km proposed transmission line between Muskrat Falls, Labrador and Soldiers Pond, Newfoundland.*

#### **Aerial Wildlife Survey's, Nalcor Energy Labrador-Island Transmission Link Project, St. John's, NL (Project Coordinator/Observer)**

*Aided in the delivery of aerial (helicopter) wildlife surveys (6) along the 1,100 km proposed transmission line between Muskrat Falls, Labrador and Soldiers Pond, Newfoundland (2011-2012). Harlequin Duck (*Histrionicus histrionicus*) surveys were also performed on various river segments in Labrador and on the Great Northern Peninsula of insular Newfoundland.*

#### **Wildlife Surveys\*, Various (Terrestrial Ecologist)**

*Aided in wildlife (ungulates, small mammals, raptors, upland breeding birds, waterfowl) and wildlife habitat baseline data collection, and environmental assessments in support of EIS for proposed mining projects in the Yukon and Nunavut.*

#### **Tilley Shallow Gas Drilling Program - Phase II Spring Wildlife Surveys\*, Brooks/Tilley, Alberta**

*Prescreening and field evaluation of environmentally sensitive areas with respect to potential impacts of the proposed construction activities on courtship and nesting behaviours of migratory bird species occupying native prairie environments in the grasslands natural region.*

#### **Migratory Bird Surveys and Monitoring\*, Various (Terrestrial Ecologist/Project Manager)**

*Call playbacks and ground truthing to identify burrowing owl populations and evaluate potential impacts of the proposed industrial activities on courtship and nesting behaviors of migratory bird species in native prairie habitats.*

Sean M. Bennett B.Sc., R.P.F., P.Biol.

Senior Terrestrial Ecologist

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## PUBLICATIONS

Parasitoid complex of *Zeiraphera Canadensis* (Lepidoptera: Torticidae) and evaluation of *Tycherus osculator* (Hymenoptera: Ichneumonidae) as a biological control agent. *The Canadian Entomologist* v. 131 pp. 465-474, 1999.

Perry Trimper has over 25 years' experience as an environmental scientist and wildlife biologist working predominantly in northern ecosystems, resource development and environmental assessment. He started working in Labrador for Jacques Whitford in 1987. Since that time he has worked extensively throughout this region, elsewhere in northern Canada, Alaska and Russia. This experience has included: environmental research and assessment of the proposed Lower Churchill Hydroelectric Generation Project; the inventory and decommissioning of DEW-Line sites in the central Arctic; baseline data collection and Environmental Effects Monitoring at 5 Wing Goose Bay; Voisey's Bay Mine/Mill project; relocation of Davis Inlet; and several assessments of other industrial projects throughout Canada for many proponents including: Noranda, Albright & Wilson, Abitibi-Price, Inco, and Transport Canada. In Russia he has worked for the Canadian International Development Agency, the United Nations Development Program and the World Bank on similar themes of northern resource development projects and environmental assessment. He has published several articles related to this experience. Mr. Trimper works for Stantec Consulting Ltd. and is based in Labrador.

## EDUCATION

Certificate, Trade Professional, Forum for International Trade Training, Halifax, Nova Scotia, 2007

French and Russian Language Training, Memorial University, St. John's, Newfoundland and Labrador, 1991

Advanced French Language Training, Universite Laval, Quebec City, Quebec, 1986

Bachelor of Science, Forestry and Wildlife Management, University of New Brunswick, Fredericton, New Brunswick, 1984

## AWARDS

2009 True Rotarian Award, Rotary International

2003 Citizen of the Year, Town of Happy Valley-Goose Bay

2003 Chamber Member of the Year, Newfoundland and Labrador Chamber of Commerce

1984 Graduating Student Award at UNB, The Wildlife Society

## PROJECT EXPERIENCE

### Environmental Assessments

Ongoing Assessment of the Proposed Transmission Line from Newfoundland to Nova Scotia (Terrestrial Lead)  
*Lead wildlife advisor on avifauna, caribou and other wildlife baseline programs within the proposed alignment.*

Impact Assessment of Labrador Iron Mines Direct Shipping Ore Project, near Howell's River, Newfoundland and Labrador (Caribou Expert)

*Directed and completed late winter surveys for sedentary and migratory caribou, designed mitigation measures and supported environmental assessment in vicinity of ore deposits developed in DSO project.*

Ongoing Assessment of the Proposed Kami Iron Ore Project, Western Labrador, Newfoundland and Labrador (Terrestrial Lead)

*Lead investigator of terrestrial components dealing with wildlife and wetland stewardship programs associated with a proposed iron ore mine within the municipalities of Labrador City and Wabush.*

Environmental Assessment of the Proposed Labrador-Island Transmission Link, Newfoundland and Labrador (Terrestrial Lead)

*Managed compilation of baseline programs, component studies and assessment sections dealing with wildlife in association with proposed transmission line from the lower Churchill Project in Labrador to Soldier's Pond in Newfoundland for Nalcor Energy.*

# Perry Trimper B.Sc.F

Senior Associate - Environmental Scientist and Wildlife Biologist

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**Environmental Assessment of the Proposed Hydroelectric Generation Development of the Lower Churchill River, Labrador, Newfoundland and Labrador (Terrestrial Manager, Lead Author, and Hearings Expert Witness)**  
*Manager and lead author of 13 terrestrial baseline programs and associated terrestrial environmental assessment of the proposed hydroelectric development of the Lower Churchill River in Labrador. This assessment began in 2006 with an extensive baseline program, followed by submission of the EA, subsequent information requests and finally the federal / provincial hearings that were completed five years later for Nalcor Energy.*

**Environmental Assessment of Phases I, II and III of the Trans-Labrador Highway, Labrador, Newfoundland and Labrador (Terrestrial Manager)**

*Responsible for associated terrestrial baseline research and assessment of these three phases of highway through remote areas of Labrador over approximately 10 years.*

**Impact Assessment, Relocation of Utshimassits, Newfoundland and Labrador (Project Manager)**

*Project Manager and responsible for the biophysical impact assessment of the relocation of the native community of Utshimassits (Davis Inlet) on the Labrador Coast. This Initial Environmental Evaluation was completed in association with the Department of Indian Affairs and Northern Development and the Federal Environmental Assessment and Review Process*

**Federal Environmental Assessment and Review, Labrador, Newfoundland and Labrador (Expert Witness)**

*Served as an expert witness during Federal Environmental Assessment and Review Office hearings examining the environmental effects of low-level military flying in Labrador and north-eastern Québec. Specifically addressed issues relating to raptors and Harlequin Duck in terms of potential impacts, state of knowledge, and future monitoring programs*

**Environmental Screening of Remediation Options, Saglek, Newfoundland and Labrador (Manager)**

*Manager of the Environmental Screening of Remediation Options for the disposition of PCB-contaminated soil in Saglek, Labrador. Inuit Knowledge was used in the design of mitigation for the Environmental Protection Plan*

**Impact Assessment of a Nickel Mine/Mill in Northern Labrador, Voisey's Bay, Newfoundland and Labrador (Manager and Expert Witness)**

*Manager and principal author of impact assessment of a nickel mine/mill in northern Labrador for a number of wildlife components, including black bear (*Ursus americanus*), caribou (*Rangifer tarandus*), avifauna and species of special conservation status. Lead presenter and technical witness of terrestrial environment issues at the subsequent Canadian Environmental Assessment Act hearings (1995-1997).*

## **Environmental Management**

**Environmental Management Assessment, Kamchatka Peninsula, Russia (Expert)**

*Expert contracted to complete an assessment and recommendations regarding the environmental management of priority protected areas on Russia's Kamchatka Peninsula. This CIDA-funded contract required extrapolating experience from northern Canada and elsewhere in Russia to enhance interagency cooperation and enhance public involvement. Was also the project manager for an additional contract dealing with alternative employment for a UNDP salmonids project on Kamchatka.*

## **Environmental Mitigation and Monitoring**

**Monitoring Behaviour of Nesting Osprey, Happy Valley-Goose Bay, Newfoundland and Labrador (Lead Researcher)**

*Examined effects of low-level flying CF-18 jet aircraft on the behaviour of nesting Osprey in Labrador (1995-1996). Using sophisticated audio equipment, noise spectral and propagation information were compared with associated adult behaviour during controlled overflights. Experimental trials using propeller-driven aircraft were completed during 2003-2004.*

**Monitoring Osprey Reproductive Success, Happy Valley-Goose Bay, Newfoundland and Labrador (Lead Researcher)**

*Continued (from earlier work with DND) monitoring of Osprey reproductive success in relation to military aircraft activity in Labrador*

# Perry Trimper B.Sc.F

Senior Associate - Environmental Scientist and Wildlife Biologist

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## Raptor and Harlequin Duck Monitoring Program, Ungava Peninsula (Manager)

*Manager and navigator/observer during annual Raptor and Harlequin Duck monitoring programs on the Ungava Peninsula (1991-2006). These extensive helicopter surveys were designed to locate active nest sites for exclusion from low-level flying activities completed by the German, Dutch, British, and Italian Air Forces*

## Physiological Response of Moulting Black Ducks to Military Jet Aircraft, Happy Valley-Goosey Bay, Newfoundland and Labrador (Lead Researcher)

*Lead researcher examining physiological response of moulting Black Ducks to military jet aircraft (F-4, F-16, Tornado) over flights in Labrador (2002). Experiments involved the use of pulse period monitors as an indication of heart rate in relation to measured and modeled ambient noise levels in remote field conditions.*

## Behavioural Response of Nesting Canada Geese to Military Aircraft, Happy Valley-Goosey Bay, Newfoundland and Labrador (Lead Researcher)

*Lead researcher examining behavioural response of nesting Canada Geese to military aircraft (Tornado, AMX, Transal, C-130) over flights (2004-2006) and civilian aircraft (2006-2007). Behavioural responses and noise propagation were quantified and compared to undisturbed situations in three separate areas near 5 Wing Goose Bay. In 2006-2007, tested Nest Monitors® as a means of remotely measuring noise, temperature and other parameters in situ.*

## Moulting/Staging Waterfowl, Happy Valley-Goosey Bay, Newfoundland and Labrador (Lead Researcher)

*Lead researcher examining the behavioural responses of moulting/staging waterfowl, and of nesting Osprey to sonic booms generated at different altitudes by CF-18 fighter-bomber aircraft. Over pressures and L1 values were measured in different media (i.e. air, water, and ground) in support of the environmental registration of this activity at 5 Wing Goose Bay.*

## Terrestrial Component Baseline Program, Labrador City, Newfoundland and Labrador (Manager)

*Terrestrial Component Manager of several baseline programs examining potential interactions of an iron ore development in Labrador with aspects of the Project extending into Québec. Also involved in field programs for furbearers, caribou, moose, waterfowl, raptors and other wildlife (2005-2006)*

## Terrestrial Baseline Program, Postville, Newfoundland and Labrador (Manager)

*Manager of terrestrial baseline program in the vicinity of proposed uranium mine and access roads for Aurora Energy, near Postville, Labrador (2007-Present)*

## Integrated Resource Planning

### Development of an Integrated Resource Management Strategy, Komi Republic of Russia (Project Manager)

*Project Manager in the development of an integrated resource management strategy for a river basin in the Komi Republic of Russia. This three-year (1996-1999) project involved training and the establishment of a GIS Cadaster Centre, an investors' guide to the environmental assessment process in the region, an extended river-based field expedition; and the enhancement of effective environmental protection measures. A Steering Committee has been established in both countries to oversee the implementation of the Project. This project was considered one of the best in Canada in 1998 by the Alliance of Manufacturers and Exporters of Canada.*

## Sustainability

### Sustainable Resource Development Project, Komi Republic of Russia, Russia (Project Manager)

*Project Manager of a four-year (2000-2004) sustainable resource development project in the Komi Republic of Russia. Building on previous experience in this region, the project involved the establishment of a Centre for Sustainable Development, linking natural resource sector partnerships from both countries. Project accomplishments were profiled at an international 'Resources for the Future' business forum in 2004.*

# Perry Trimper B.Sc.F

Senior Associate - Environmental Scientist and Wildlife Biologist

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## PUBLICATIONS

Trimper, P.G., P. Thomas, and T.E. Chubbs. Harlequin Ducks in Labrador. *Waterbirds 31 (Special Publication 2)*: 32-43, 2008.

Robertson, G.J., G. Mittelhauser, T.E. Chubbs, P.G. Trimper, R.I. Goudie, P.W. Thomas, S. Brodeur, M. Robert, S.G. Gilliland and J.L. Savard. Morphological variation among Harlequin Ducks in the Northwest Atlantic. *Waterbirds 31 (Special Publication 2)*: 194-203, 2008.

Thomas, P.W., G.H. Mittelhauser, T.E. Chubbs, P.G. Trimper, R.I. Goudie, G.J. Robertson, S. Brodeur, M. Robert, S.G. Gilliland and J.P.L. Savard. Movements of Harlequin Ducks in eastern North America. *Waterbirds 31 (Special Publication 2)*: 188-193, 2008.

Chubbs, T.E., P.G. Trimper, G.W. Humphries, P.W. Thomas, L.T. Elson and D.W. Laing. Tracking seasonal movements of adult male Harlequin Ducks from Central Labrador using satellite telemetry. *Waterbirds 31 (Special Publication 2)*: 173-182, 2008.

Trimper, P.G., K. Knox, T. Shury, L. Lye and B. Barrow. Response of Moulting Black Ducks to Jet Aircraft Activity. 2003. *Response of Moulting Black Ducks to Jet Aircraft Activity*. In Baker, M. and G. Belliveau (eds.). *Waterfowl Conference 2002. Terra Borealis, Conference Proceedings No. 3. Institute for Environmental Research and Monitoring, Happy Valley-Goose Bay, NL*, 2003.

Trimper, P. G. and T. E. Chubbs. Effectiveness of spatial mitigation for the George River Caribou Herd within the Military Training Area of Labrador and Québec. *Rangifer Special Issue No. 14*: 65-72, 2003.

Trimper, P.G., K. Knox, T. Shury, L. Lye and B. Barrow. Response of moulting Black Ducks to jet aircraft activity. In. Institute for Environmental Monitoring and Research (Ed). *TERRA BOREALIS Waterfowl Conference 2002. Conference Proceedings, Happy Valley-Goose Bay, Newfoundland and Labrador*. No. 3, 2003.

Trimper, P.G. and P. Thomas. Summary of osprey research relating to the low-level flying program in Labrador and Québec. In M. Baker and G. Beliveau (Eds.). *Effects of Noise on Wildlife Conference. Institute for Environmental Monitoring and Research, Happy Valley-Goose Bay, NL*. Pp. 36-40, 2001.

Chubbs, T.E., B. Mactavish, K. Oram, P.G. Trimper, K. Knox, and R.I. Goudie. Unusual Harlequin Duck, *Histrionicus histrionicus*, nest site discovered in central Labrador. *Canadian Field-Naturalist 115(1)*: 177-179, 2001.

Chubbs, T.E., P.G. Trimper, K. Knox, M. Robert and R. I. Goudie. A commitment to environmental protection - determining habitat use of Harlequin Ducks in Labrador and Northeastern Québec. *RENEW*, 2000.

Simon, N.P., F.E. Schwab, M.I. LeCoure, F.R. Phillips and P.G. Trimper. Effects of trapper access on a marten population in central Labrador. *Northeast Wildlife 54*:73-76, 2000.

Chubbs, T.E., B. Mactavish, and P.G. Trimper. Site characteristics of a repetitively used Harlequin Duck (*Histrionicus histrionicus*), nest in Northern Labrador. *Canadian Field-Naturalist 114(2)*: 324-326, 2000.

Chubbs, T.E., B. Mactavish, K. Oram and P.G. Trimper. First confirmed breeding records and other incidental sightings of Northern Harriers in Labrador. *J. Raptor Res. Vol. 34 (1)*: 56-57, 2000.

## Perry Trimper B.Sc.F

Senior Associate - Environmental Scientist and Wildlife Biologist

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Khokhlova, L.G., Y.V. Leshko, A.S. Stenina, V.G. Martynov and P.G. Trimper. Monitoring the qualitative characteristics of the Izhma-River Basin surface waters. *Rossisskaya Akademiya Nauk*, 22-25 June 1998, Murmansk Oblast: 94-95, 1998.

Trimper, P.G., T.E. Chubbs, N.M. Standen and G.W. Effects of intensive aircraft activity on the behaviour of nesting osprey. *Humphries. 7th International Congress on Noise as a Public Health Problem, ICBEN, Sydney, Australia*, 1998.

Chubbs, T.E. and P.G. Trimper. The diet of nesting ospreys, *Pandion haliaetus*, in Labrador. *Canadian Field-Naturalist* 112(3): 502-505, 1998.

Standen, N.M., P.G. Trimper and G.W. Humphries. Modeled and measured noise levels of low altitude military aircraft flights. *7th International Congress on Noise as a Public Health Problem, ICBEN, Sydney, Australia*, 1998.

Trimper, P.G., N. Standen, L.M. Lye, D. Lemon and T.E. Chubbs. Effects of low-level jet aircraft noise on the behaviour of nesting osprey. *Journal of Applied Ecology*. 35:122-130, 1998.

Trimper, P.G., E. Young and T. Chubbs. Distribution of wintering moose in Labrador and northeastern Québec. *ALCES Vol. 32: 41-49*, 1996.

Trimper, P.G. Environmental Assessment and Moose in Newfoundland and Labrador. *Presented at the 3rd International Moose Symposium in Syktyvkar, Soviet Union*, 1990.

Trimper, P.G. The Implications of a Small Mammal Decline on Marten in Labrador and Northeastern Quebec. *Presented at the 5th Northern Furbearer Conference in Whitehorse, Yukon*, 1989.

Trimper, P.G. and G.R. Parker. Nesting Ecology of the Common Loon in South-western New Brunswick. *Presented to the North American Loon Fund at the 52nd North American Wildlife and Natural Resources Conference in Quebec City, 1987*.



Tina Newbury, M.Sc. is a Wildlife Biologist based in Corner Brook, Newfoundland and Labrador. She graduated from Trent University (1992) with a B.Sc. with a joint major in Biology and Environmental and Resource Sciences, and more recently completed her M.Sc. in Natural Resource Sciences from McGill University (2006). Ms. Newbury has 15 years field and other experience, including her involvement on various large-scale projects associated with military activities and proposed mining and hydroelectric development projects in the province. Her work in Labrador includes wildlife investigations of small mammals, forest songbirds, waterfowl, raptors, woodland caribou and other species in the region, as well as various habitat characterization studies.

## EDUCATION

Master of Science (Natural Resource Sciences), McGill University, Montreal, Quebec, 2006

Post-Baccalaureate Studies (Environmental Technology), Simon Fraser University, Burnaby, BC, 1994

Bachelor of Science Degree (joint major in Biology/Environmental and Resource Sciences), Trent University, Peterborough, ON, 1992

## PROJECT EXPERIENCE

### **Ecological Risk Assessment**

Gander International Airport former Radar Site 59, Gander, Newfoundland and Labrador (Biologist)

Collected small mammals and snowshoe hare at two sites (study site and control site) to test for contamination levels at a remediated site at Gander airport for Transport Canada.

Indian Head Disposal Site, St. George's Bay, Newfoundland and Labrador (Biologist)

Collected benthic samples using a Van Veen Grab from five sites at Indian Head disposal site for Environment Canada

### **Environmental Mitigation and Monitoring**

Wildlife Surveys, South-western and Central Newfoundland, Newfoundland and Labrador (Biologist)

Conducted wildlife surveys as part of an Ecological Landscape Classification team throughout the proposed transmission line corridor for Emera NL. Participated as an observer/data recorder on first aerial wildlife survey through the same corridor. Data compilation and assisted with field report preparation.

### **Coastal Migration Survey, South-western Newfoundland, Newfoundland and Labrador (Biologist)**

Established six transects and conducted two fall coastal migration Surveys for Emera NL. Also, carried out field reconnaissance for potential electrode landing sites. Data compilation and field report preparation.

### **Breeding Waterfowl and Brood Surveys, Central Newfoundland, Newfoundland and Labrador (Biologist)**

Conducted a spring breeding waterfowl survey followed by a brood survey in early July on the Valentine Lake Property and Victoria River for Marathon Gold Corp. Data compilation.

### **Breeding Songbird Survey, Central Newfoundland, Newfoundland and Labrador (Biologist)**

Conducted point count surveys on the Valentine Lake Property for Marathon Gold Corp. Data compilation and report preparation.

### **Breeding Waterfowl and Brood Surveys, Western Labrador, Newfoundland and Labrador (Biologist)**

Conducted a series of aerial surveys in and around the Kami property for Alderon Resources Corp. The species, sex, social status and age class of waterfowl was recorded.

### **Breeding Songbird Survey, Western Labrador, Newfoundland and Labrador (Biologist)**

Conducted point count surveys in and around the Kami Property for Alderon Resources Corp. Data compilation and report preparation.

### **Breeding Songbird Survey, North West River to Postville, Newfoundland and Labrador (Biologist)**

Conducted point count surveys along the proposed road from North West River to Postville for Aurora Energy Resources. Data compilation and report preparation.

# Tina L. Newbury M.Sc., B.Sc.

Environmental Scientist III

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## **Survey Population Trends of the Harlequin Duck in Labrador, Central and Northern Labrador, Newfoundland and Labrador (Biologist)**

*Conducted aerial surveys for breeding pairs of Harlequin Duck on forty-three rivers. Data compilation and report preparation for the Institute of Environmental Monitoring and Research.*

## **Survey for Golden Eagle and Bald Eagle Nest Activity, Central Labrador, Newfoundland and Labrador (Biologist)**

*Conducted aerial surveys of known eagle nest locations to determine if they were active. Data compilation and report preparation for the Institute of Environmental Monitoring and Research.*

## **Lower Churchill Hydroelectric Development Environmental Assessment, Labrador, Newfoundland and Labrador (Biologist)**

*Carried out small mammal trapping and general wildlife surveys for the preparation of supporting field baseline reports for Nalcor Energy. Assisted with preparation of HVDC –Avifauna report. Worked as part of a team for preparation for the CEAA Joint Review Panel Headings that were held in March/April 2011.*

## **Jacques Lake, Postville, Newfoundland and Labrador (Biologist)**

*Conducted general wildlife surveys in a variety of habitat types for Aurora Energy Resources at their Jacques Lake exploration site near Postville, Labrador*

## **Lower Churchill Hydroelectric Transmission Line, Churchill Falls, Newfoundland and Labrador (Biologist)**

*Conducted general wildlife surveys in a variety of habitat types along the proposed transmission line. This data contributed to the Ecosystem Land Classification and was also used in the component studies. Contributed to the writing and preparation of these documents.*

## **EnelAtlantic Canada LP, St. Lawrence, Newfoundland and Labrador (Biologist)**

*Data analyses and report preparation on bird mortality and migration associated with wind turbines at St. Lawrence.*

## **Trans Canada Keystone Pipeline, Saskatchewan and Manitoba (Biologist)**

*Conducted migratory bird nest searches and carried out monitoring along the pipeline in preparation for pipeline conversion. Filed daily field reports.*

## **Schefferville Area (Labrador) Iron Ore Mine, Corner Brook, Newfoundland and Labrador (Biologist)**

*Conducted general wildlife surveys on-site in preparation for an Environmental Impact Statement (EIS) in accordance with the Newfoundland and Labrador Environmental Protection Act (NLEPA) for a proposed iron ore mine in western Labrador, near Schefferville, PQ.*

## **Western Newfoundland, Various Locations, Saskatchewan and Manitoba (Biologist)**

*Collected marine water samples for water quality sampling for an on-going project for Environment Canada.*

## **Model Forest of Newfoundland and Labrador\*, Corner Brook, Newfoundland and Labrador (Watershed Management Planner)**

*Worked with the City of Corner Brook to develop an integrated watershed management plan for the City of Corner Brook's drinking water supply. This included writing a Characterization report; conducting and summarizing the results of a public attitudinal survey; and establishing and maintaining positive working relationships with co-workers and committee members.*

## **Environmental Site Remediation**

### **Diamond Cove, Rose Blanche, Newfoundland and Labrador (Biologist)**

*Conducted habitat assessment, collected water and sediment samples to determine potential hydrocarbon impacts for Public Works and Government Services Canada.*

## **Pinetree NORAD Site, Stephenville, Newfoundland and Labrador (Biologist/Site Supervisor)**

*Supervised personnel and heavy equipment during debris removal for Public Works and Government Services Canada. Worked with Provincial Government biologist towards protection of Low Northern Rockcress, a protected plant species that occurs only in this location.*

\* denotes projects completed with other firms

Tina L. Newbury M.Sc., B.Sc.

Environmental Scientist III

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## PUBLICATIONS

Moose (*Alces alces*) Winter Browse use in Central Labrador. *Newbury, T.L., N.P.P. Simon and Tony E. Chubbs, Canadian Field Naturalist, Vol 121, No.4 pages 359-363, 2007.*

The Effects of Clearcutting on Snowshoe Hare (*Lepus americanus*) Relative Abundance in Central Labrador. *Newbury, T.L. and N.P.P. Simon, Forest Ecology and Management 210:131-142, 2005.*

"Ashkui", a Vernal Ice-cover Phenomena and their Ecological Role: in Southern Labrador. *Baillie, S.M., C.D. Wilkerson and T.L. Newbury, Canadian Field-Naturalist, 2002.*



*Curriculum Vitae*

**Susan J. Meades**

**Personal Data**

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Address: 1 Peace Tree Drive, Sault Ste. Marie, ON, P6A 5K7  
Phone: (705) 777-0496; NOPD office: (705) 541-5594  
E-Mail: [sjmeades@sympatico.ca](mailto:sjmeades@sympatico.ca); NOPD office: [herbaria@NRCan.gc.ca](mailto:herbaria@NRCan.gc.ca)

Citizenship: Canadian (obtained November 1981, St. John's, NL)  
Born: October 15, 1949, Kearny, New Jersey, USA.

Occupation: Botanical consultant; botanical illustrator.

Website: Northern Ontario Plant Database (NOPD): [www.northernontarioflora.ca](http://www.northernontarioflora.ca)

**Education (Post-Secondary)**

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1967-1971 Bachelor of Arts (Botany) May 1971. Rutgers University (NCAS), Newark, New Jersey, USA.

1971-1973 Master of Science (Botany) August 1973. Eastern Illinois University, Charleston, Illinois, USA. Thesis Title: *Spring Flora of East-Central Illinois*.

1973-1978 Ph.D. Candidate Status achieved, Doctor of Philosophy program (Plant Taxonomy) at the University of Connecticut, Storrs, Connecticut, USA (Course work, exams, and research were successfully completed). Dissertation Topic: Systematic Study of the North American Species of *Triadenum* Raf. [§ *Elodea* (Juss.) Choisy of the Genus *Hypericum* L., Hypericaceae]. I terminated my Ph.D. program due to family commitments.

**Work Experience**

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2009-present **Project Manager/Senior Botanist** (contractual), *Corridors for Life* project with Great Lakes Power Transmission (GLPT), Algoma Power Inc. (API), and Brookfield Renewable Power (BRP). *Duties*: oversee project; conduct botanical and species-at-risk surveys along power line rights-of-way (ROW); develop rehabilitation prescriptions for the ROW; develop a vegetation manual for line workers on compatible plants in the ROW.

2010-present **Scientific Authority/Senior Consultant** (contractual), Stantec, Environmental Consultants, Goose Bay and St. John's, NL. *Duties*: Conduct rare plant surveys, verify plant identification, and report writing for the Lower Churchill Hydro Development, Labrador.

2010-present **Botanical Consultant** (contractual), Batchewana First Nation, Sault Ste. Marie, ON. *Duties*: Conduct an inventory of the flora of Whitefish and St. Mary's Islands, Sault Ste. Marie, ON.

2010 **Botanical Consultant** (contractual), Rutter Engineering, St. John's NL. *Duties*: Conduct rare plant survey, verify plant identification, and report writing for Trans-Labrador highway re-route in Pinware, Labrador.

2008-present **Nomenclature Biologist** (contractual), Great Lakes Forestry Centre, Sault Ste. Marie; *Duties:* update nomenclature and add synonymy for vascular plant species in the Canada Plant Hardiness Zone Database: <[http://planthardiness.gc.ca/ph\\_main.pl?lang=en](http://planthardiness.gc.ca/ph_main.pl?lang=en)>.

2008-2009 **Scientific Authority/Senior Consultant** (contractual), Jacques-Whitford Environmental Consultants (now Stantec). *Duties:* Conduct rare plant surveys, verify plant identification, and report writing for the Aurora-Michelin Uranium mine project, near Postville, Labrador.

2008-2009 **Contract Consultant**, Preliminary Mapping of Ecodistricts of Labrador, funded by Nature Conservancy of Canada, St. John's, NL.

2007-2008 **Co-Leader** (vegetation aspects), SAR grant to restore disturbed wood turtle habitat sites in power line ROW cut during regular vegetation management. This grant was in partnership with Great Lakes Power, Brookfield Power, ULERN, and OMNR, Sault Ste. Marie, ON.

2006-2008 **Consultant/Scientific Authority**, Rare Plant Surveys for Lower Churchill Hydro Development, Labrador; worked with AMEC Inc. in partnership with Jacques-Whitford and the Innu Nation. *Duties:* selected sites, conducted field surveys for rare plant species, and verified identification of plants collected during surveys of the Lower Churchill River, from Goose Bay to Churchill Falls, Labrador.

1997-2008 **Adjunct Professor**, Algoma University, Sault Ste. Marie, ON.  
*Duties:* developed and taught courses in Principles of Ecology (Biol. 2356), Diversity of Vascular Plants (Biol. 2386), Prokaryotes, Fungi, and Green Plants (Biol. 2337), Northern Ontario Flora: Plant Identification Techniques (Biol. 2397), Vascular Plant Systematics (Biol. 3306), and Ethnobotany (Biol. 3346). Retired from teaching at Algoma Univ. in May, 2008.

2005-2007 **Project Leader**, Ontario Forestry Futures Trust Grant to expand the Northern Ontario Plant Database. *Duties:* developed educational materials on plant identification for foresters and university, supervised Batchewana First Nation liaison with NOPD, funded through First Nation Forestry Program grants (2005-2006); continued management and updates of NOPD.

2002-2004 **Project Leader**, Ontario Living Legacy Trust Grants to develop an herbarium database and website on vascular plants housed in northern Ontario herbaria. *Duties:* wrote proposals, developed the Northern Ontario Plant Database <[www.northernontarioflora.ca](http://www.northernontarioflora.ca)>, updated nomenclature on a continuing basis, conducted field surveys, instructed and supervised students in herbarium work and data entry.

2001-2002 **Consultant**, Sault College of Applied Arts and Technologies, Sault Ste. Marie, ON.  
*Duties:* contracted to write a web-based (WebCT) course 'Plant Diversity' - NRT218.

July 2000 **Consultant**, Agra Earth and Environment (now AMEC, Inc.), St. John's, NL.  
*Duties:* Surveyed sites for rare plant species along ~200 km of the proposed route of the Red Bay to Cartwright Road (se Labrador), extension of the Trans-Labrador Highway.

1997-1998 **Consultant** (contractual), The Nature Conservancy of Canada, Toronto, ON.  
*Duties:* planned and oversaw rehabilitation of Burnt Cape Ecological Reserve in 1998; provided vegetation mapping, surveys, and plant list of Burnt Cape Ecological Reserve in 1997.

1996 **Consultant** (contractual), Great Lakes Forestry Centre, Sault Ste. Marie, ON.  
*Duties:* edited an autecological manuscript for botanical accuracy.

1995-1996 **Consultant** (contractual), COSEWIC (Committee on the Status of Endangered Wildlife in Canada), Ottawa, Ontario; funding through the Canadian Wildlife Federation. *Duties:* prepared status reports on two rare NL endemic species for consideration of endangered/ threatened species status. Endangered and threatened status achieved for *Braya longii* and *B. fernaldii*.

1993-1996 **Consultant** (contractual), Dept. of Forestry and Agriculture, Govt. of Newfoundland and Labrador, St. John's, NL. *Duties:* provided text, scientific editing, graphics, and layout for a revised 20-Year Forestry Development Plan, 1994-2014, the *National Forest Strategy*; and *Forest Management Plan for District 20 (Cartwright)*.

1992-1993 **Illustrator and Researcher** (contractual), Northland Associates, St. John's, NL.  
*Duties:* provided illustrations of 80 plant species, DTP page design, and scientific editing for *Indicator Plant Species in Canadian Forests*; funded by Forestry Canada, Sault St. Marie, ON.

1991-1993 **Illustrator and Science Researcher** (contractual), Breakwater Books, St. John's, NL.  
*Duties:* provided illustrations, layout design, and ecoregion descriptions for an Environmental Science Textbook (*Finding The Balance: For Earth's Sake*).

1992 **Consultant** (contractual), Dept. of Education, Govt. of Nfld. and Labrador, St. John's, NL.  
*Duties:* developed and wrote a *Forestry Module* (15 lessons) for the Biology 3201 program, which discussed forest ecosystem, logging practices, and forest management in Nfld. and Labrador.

1990-1991 **Consultant** (contractual), J.P. Bouzane and Associates, St. John's, NL, for the Innu Nation. *Duties:* provided photo-interpretation for >1,000 1:50,000-scale aerial photographs to select potential migratory waterfowl habitat (ribbed fen, marsh, shrub swamp) in central/northern Labrador. Report Title: *Biophysical Classification of Migratory Waterfowl Habitat in Labrador*.

1989-1990 **Researcher** (contractual), Protected Areas Association, St. John's, NL.  
*Duties:* prepared report reviewing natural history literature and maps of the Province; consulted scientists in forestry, wildlife, geology, and fisheries re: provincial natural regions; produced an original marine natural regions map of the province; summarized natural regions literature. Report Title: *Natural Regions of Newfoundland and Labrador*. 374pp. + map appendix 105pp.

1989-1990 **Graphic Artist** (contractual), Peregrine Corp., St. John's, NL.  
*Duties:* Managed contract for graphic preparation of the *Forest Site Classification Manual*; provided graphics, editing, and other production duties; acted as liaison between the graphics company, the Nfld. Dept. of Forestry and Agriculture, and the printer.

1987-1989 **Illustrator and Consultant** (contractual), Nfld. Dept. of Forestry and Agriculture, and Forestry Canada. *Duties:* provided illustrations, photography, and descriptions of 95 plant species for the *Forest Site Classification Manual* (Chapter 7).

1986 **Graphic Artist** (full-time), Wilderness Society & Nfld. Provincial Parks, on the Parks Enhancement Project. *Duties:* provided illustrations for management plans and brochures of Table Point and Watts Point Ecological Reserves.

1978-1984 **Botanist** (full-time 1979-81; contractual 1978, 1984), Northland Associates Environmental Consultants, St. John's, NL. *Duties:* conducted vegetation studies and provided mapping for environmental impact statements; aerial photo-interpretation of peatlands and other vegetation forms. *Projects included:* Upper Salmon Hydro-Electric; Trans-Labrador Hwy Re-route, Main River transmission line re-route (stream crossings), and several Peatland Inventories across Nfld.; vegetation mapping and preliminary plant list for Port-aux-Choix NHP (1984).

1983-1985 **Botanical Illustrator** (contractual), Memorial University (for Dr. Robin South), St. John's, NL. *Duties:* prepared scientifically accurate illustrations of marine algae.

Spring 1982 **Botanist** (contractual), Grey River Caribou Study; funded by Nfld. Hydro & NF Wildlife Service (for Shane Mahoney). *Duties:* provided vegetation mapping of caribou range from aerial photographs.

1971-1978 **Instructor and Teaching Assistant** for various educational institutions.

*Publications and Reports*

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2012 Meades, S.J. 2012 (in preparation). *Field Guide to Integrated Vegetation Management along Corridors in Northern Ontario*. Prepared for Great Lakes Power Transmission, Algoma Power Inc., and Brookfield Renewable Power, Sault Ste. Marie, ON.

2012 Brouillet, L., F. Coursol, S.J. Meades, M. Favreau, M. Anions, P. Bélisle & P. Desmet. 2010+. *VASCAN, the Database of Vascular Plants of Canada*. <http://data.canadensys.net/vascan/>

2012 Castro, K., C. Wilson, K. Allison, K. Lawrence, S.J. Meades, and D. McKenney. 2010. *The Plants of Canada Database: An Online Resource for the Vascular Flora of Canada*. [www.plantsofcanada.info.gc.ca](http://www.plantsofcanada.info.gc.ca)

2011 Meades, S.J., M. Krajchi, L. Derickx, D.N. Meades, J. Rose, and S. McClinchey. Jan. 2011. *Corridors for Life: Rehabilitating Powerline Corridors for Species-at-Risk*, 2010-11. Final Report. NORDIK Institute, Sault Ste. Marie, ON. 97 pp. + 9 appendices.

2010 Meades, S.J., M. Krajchi, L. Derickx, J. Burkitt, J. Rose, and L. Smith. March 2010. *Corridors for Life: Rehabilitating Powerline Corridors for Species at Risk*. Final Report - HSP Grant ID# 5057 and SAR Grant 151-09-ULERN, NORDIK Institute, Sault Ste. Marie, ON. 102 pp. + 14 appendices.

2009 Meades, S.J., J. Rose, L. Smith, E. Boyko, Dan Sayers, Jr., L. McDonald, and R.D. Knudsen, March, 2009. *Corridors for Life - Rehabilitating Rights-of-Way to Support Wood Turtles, Monarchs, and Other Species at Risk*. Final Report – Project 2008HSP4707. Upper Lakes Environmental Research Network (ULERN), Sault Ste. Marie, ON. 50 pp.

2008 Squires, S., M. Burzynski, L. Hermanutz, J. Brazil, D. Ballam, T. Bell, N. Djan-Chékar, H. Mann, J.E. Maunder, S.J. Meades, W. Nicholls, L. Soper, and G. Yetman. 2008. *Recovery Strategy for Long's Braya (Braya longii Fernald) and Fernald's Braya (Braya fernaldii Abbe) in Canada*. Species at Risk Act Recovery Strategy Series. Wildlife Division, Government of Newfoundland and Labrador, Corner Brook. 42 pp.

2008 Knudsen, R., S.J. Meades, L. McDonald, D. Sayers, Jr., and C. Zimmerman. 2008. *Wood Turtle: Habitat rehabilitation and Recovery*. Final Report - Project 126-07-S-SSM. ULERN, Sault Ste. Marie, Ontario. 47 pp.

2004 Meades, S.J., D. Schnare, K. Lawrence, and C. Faulkner. 2004 (onwards). *Northern Ontario Plant Database Website*. Version 1, January 2004. Algoma University College and Great Lakes Forestry Centre, Sault Ste. Marie, Ontario, Canada. See: [www.northernontarioflora.ca](http://www.northernontarioflora.ca).

2002 Sheviak, C., P. Catling, S.J. Meades, and R.M. Bateman. Dec. 2002. *Dactylorhiza*. pp. 577-579. in: *Flora North America*, Vol. 26 (Orchidaceae). Oxford Univ. Press.

2000 Susan J. Meades, Stuart G. Hay, and Luc Brouillet. *Annotated Checklist of the Vascular Plants of Newfoundland and Labrador*. Checklist submitted to the Dept. of Forestry and Agrifoods, Govt. of Newfoundland and Labrador and other sponsors. 249pp. See: <http://www.digitalnaturalhistory.com/meades.htm>.

1998 Susan J. Meades, *Burnt Cape Ecological Reserve Rehabilitation: Final Report*. Submitted to Nature Conservancy of Canada.

1997 Illustrations of 80 plant species, In: Ringius, G.S., and R.A. Sims, *Indicator Plant Species in Canadian Forests*. Canadian Forest Service, Ottawa, Ontario. 224 pp.

1996 Susan J. Meades, Status Reports on Fernald's Braya (*Braya fernaldii*) and Long's Braya (*Braya longii*). Reports and confidential recommendations submitted to COSEWIC (Committee on the Status of Endangered Wildlife in Canada). 22pp. + 10pp. appendices.

1996 Howard J. Clase and Susan J. Meades, Dactylorhids in Newfoundland. *North American Native Orchid Journal*. 2(3):208-216, and *Sarracenia* 7(1): 13-16.

1996 Susan J. Meades, Wildflowers along the Viking Trail. pp. 20-21 in: *Tuckamore, A Users' Guide to Gros Morne National Park*.

1995 Susan J. Meades, Current Status of the Tilt Cove March Orchis, *Dactylorhiza majalis* ssp. *praetermissa*. *North American Native Orchid Journal*. 1(3):244-253.

1994-95 Susan J. Meades. Articles related to the NL flora in *Sarracenia* (Newsletter of the Newfoundland Chapter of the Canadian Wildflower Society), in 1994: Northern Peninsula Gentians and Coastal Plants. Vol. 4(2): 8-10, Limestone and Serpentine Barren Plants. Vol. 4(3): 11-17, Highlights of the '94 Field Season: *Calypso bulbosa* and *Crepis nana* rediscovered! Vol. 5(1): 3-9, The Tilt Cove *Dactylorhiza*. Vol. 5(1): 13-15; in 1995: Curiosities and Additions to the Flora: tall wormseed mustard added, Menzies' rattlesnake plantain relocated, and a new form form. Vol. 5(2): 5-11, Progress Report: Protecting the Flora of Burnt Island. Vol. 5(2): 13-16, The Waghorne Memorial Expedition Vol. 6(1): 8-10, The End of Quarrying at Burnt Island. Vol. 6(2): 7-17.

1993 Dan Murphy, H. Griffith, Susan J. Meades, D. Minty. *Teacher's Resource: Finding The Balance. (For Earth's Sake)*. Illustrator and contributing writer for: D. Minty, H. Griffith, D. Murphy. *Finding The Balance. (For Earth's Sake)*. Canadian Environmental Sci. Series. Breakwater Books, St. John's, NF.

1993 Susan J. Meades, *Forestry Module; Biology 3201*. 84pp. plus *Teacher's Manual*. This elective discusses the forest ecosystem, logging practices, and forest management in Newfoundland and Labrador. Contract elective for the Department of Education, Government of Nfld. and Labrador.

1993 Susan J. Meades, Planning A Trip To Newfoundland? In: *Wildflower, North America's Wildflower Magazine*. 9(1):10-15; The Barrens. In: *Wildflower, North America's Wildflower Magazine*. 9(1):32-35.

1991 Susan J. Meades, *Biophysical Classification of Migratory Waterfowl Habitat in Labrador*. Contract report for the Innu Nation, Goose Bay, Labrador, NL.

1990 Susan J. Meades, *Natural Regions of Newfoundland and Labrador*. Contract report for the Protected Areas Association, St. John's, NL. 374pp. + 105pp. appendix.

1989 Illustrations, photography, and text of Chapter 7 (119 pp.), In: W.J. Meades and L. Moores, *Forest Site Classification Manual*. Forestry Canada and Department of Forestry and Agriculture, Govt. of Newfoundland and Labrador, FRDA Report 003, St. John's, NL.

1984 Susan J. Meades and Chris Mousseau, *The Way to the Grotto...* [A tourism booklet] 32pp. Goowiddy Graphics, Ltd., Flatrock, NL. May - Aug. 1984.

1976 Susan J. Barlow [now Meades] and John E. Ebinger, *Herbaceous Spring Flora of East-Central Illinois*. 146pp. Eastern Illinois University, Charleston, Illinois, USA (incl. illustrations of 203 spring-blooming vascular plants).

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#### Awards

2008 2007 Recipient of *The Fruchter Award, Demonstrating Leadership in Science Excellence*, awarded by ULERN, Sault Ste. Marie, ON, on April 29, 2008.

1995 *National Conservation Award*, Canadian Wildflower Society, Toronto, Ontario.

1992 Third Place, Graphics Category, *Arts and Letters Competition*, for a stone lithograph entitled *Littoral Zone*, printed at St. Michael's Print Shop, St. John's, NF.

*Talks*

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2012 Seminar Speaker: Mar. 21, 2012. *Corridors for Life: Rehabilitating Northern Utility Corridors*. Presentation to the Ontario Mining Association (OMA) Environmental Committee, Perth, ON.

2010 Seminar Speaker: Sept. 8. 2010. *Corridors for Life: Wawa to Thessalon 2009-2011*. Presentation given to Great Lakes Power Transmission, Environmental Committee, Sault Ste. Marie, ON.

2010 Seminar Speaker: May 19, 2010. *Corridors for Life: Wawa to Thessalon 2009-2010*. Presentation to the Ontario Vegetation Management Association (OVMA), 2010 Meeting, Barrie, ON.

2009 Seminar Speaker: Nov. 2009. *Consulting as a Career*. Natural Resources classes at Sault College of Applied Arts and Technologies, Sault Ste. Marie, ON.

2008 Seminar Speaker: Mar. 2008. *Exploring Central Labrador*. GLFC, Canadian Forest Service, and June 2008, Sault Naturalists, Sault Ste. Marie.

2007 Seminar Speaker: Mar. 2007. *Limestone Barren Conservation in Newfoundland*. Canadian Forest Service, Sault Ste. Marie.

2006 Seminar Speaker: Oct. 2006. *History of Burnt Cape Ecological Reserve*. Limestone Barren Conference, Plum Point, Newfoundland.

2004 Filmed by TV-Ontario (TVO) for a 7-minute segment on the Northern Ontario Plant Database, which aired on the *Studio Two* show, Nov. 8, 2004; the segment featured our crew's field activities north of Batchawana Bay.

2004 Keynote Speaker: **July 2004**: *Overview of southern Labrador vegetation, and its potential for use in interpretive materials*. Battle Harbour - Southern Labrador Research Workshop, Battle Harbour, Labrador. **Feb. 2004**: *Indicator Plants in northeastern Ontario*, Ontario Woodlot Owners Assoc., Algoma Chapter AGM. **Jan. 2004**: *Native flora of northeastern Ontario*, for Sault Ste. Marie Horticultural Society AGM: **Jan. 2004**: *Northern Ontario Plant Database and Website*, Great Lakes Forestry Centre Seminar Series.

2003 Guest Speaker: **Oct. 2003**. Algoma University Colloquium Series: Topic: *Northern Ontario Plant Database and Website*. **June 2003**: Keynote Speaker, Native Orchid Conference, McMaster University, Hamilton, Ontario, Topic: "North American *Dactylorhiza* Populations and Newfoundland Orchids." **March 2003**: Keynote Speaker, International Women's Day Luncheon, Topic: "Women Making a Difference."

*Volunteer Work*

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2012 Founder and leader of the Sault Ste. Marie chapter of PFLAG-Canada (Parents and Friends of Lesbians and Gays), Sault Ste. Marie, ON.

1999-2003 Participated in rare plant surveys in 1999, 2000, and 2003 with the Rare Plant Working Group and *Braya* Recovery Team on limestone barrens and other habitats of the Northern Peninsula and Quirpon Island, NL, and se Labrador.

1996-present Sault Naturalists, Sault Ste. Marie, ON. Conduct botany field trips in the Algoma District, ON.

1994-2000 Surveyed vegetation at Burnt Cape, NL; lobbied Government of Newfoundland & Labrador to stop quarrying at Burnt Cape; worked to get Burnt Cape declared an Ecological Reserve. ER status achieved in 2000. See: *Sarracenia* (Newsletter of the Wildflower Society of Newfoundland & Labrador), Vol 5(1): 3-9; 5(2): 13-16; Vol 6(2): 7-17; and Vol 7(3): 37.  
See: [http://www.env.gov.nl.ca/env/parks/wer/r\\_bce/index.html](http://www.env.gov.nl.ca/env/parks/wer/r_bce/index.html),  
[http://www.env.gov.nl.ca/env/publications/parks/introduction\\_burnt\\_cape.pdf](http://www.env.gov.nl.ca/env/publications/parks/introduction_burnt_cape.pdf),  
<http://www.assembly.nl.ca/legislation/sr/regulations/rc000049.htm>, and Section 4.2.4. in:  
[http://www.biosphere-research.ca/Files/Research%20papers/Rehman\\_2006\\_thesis.pdf](http://www.biosphere-research.ca/Files/Research%20papers/Rehman_2006_thesis.pdf)

1990-1995 Co-founder, president (1991-1995), and newsletter editor (1993-1997) of the Newfoundland Chapter of the Canadian Wildflower Society (now the Wildflower Society of Newfoundland and Labrador), St. John's, NL.

1987-1989 Co-founder of a Bereaved Parents support group, St. John's NL., The group was subsequently incorporated into a new support group run by the pastoral dept., Janeway Hospital, St. John's, NL.