

## CURRICULUM VITAE

### **David Michael BIRD**

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### Personal Data:

Born in Toronto, Ontario on April 23, 1949, son of David Archibald Bird and Betty Bird, née Pikes.

Married Barbara Antoinette Duval in 1972. Have 2 children: Derek born June 22, 1974 and Erin born May 14, 1983.

### Languages:

Speak and write English fluently, with some limited background in French.

### Education:

**1968** Graduated with honors from Trenton High School, Ontario.

**1973** Graduated in Honours Zoology from University of Guelph

**1976** Completed M.Sc. in Wildlife Biology at McGill University

**1978** Completed Ph.D. in Wildlife Biology at McGill University

### Special Awards and Distinctions:

- 2013** Received the Roland Michener Conservation Award from the Canadian Wildlife Federation
- 2013** Founded a new peer-reviewed scientific publication, the Journal of Unmanned Vehicle Systems, for Unmanned Systems Canada
- 2010** Received the Award for Excellent in Alumni Education from McGill University
- 2009** Received the Tom Cade Award from the Raptor Research Foundation for Significant Contributions to Captive Breeding and Conservation of Birds of Prey
- 2007** Given the Quebec Education Award, first one awarded by Bird Protection Quebec
- 1998** Elected as Canadian representative to the International Ornithological Committee at the IOC in Durban, South Africa, August 22
- 1996** Elected as a Fellow in the American Ornithologists= Union
- 1996** Inducted as a Paul Harris Fellow in Rotary Club International
- 1990-92** Appointed as Visiting Professor to University of Kent at Canterbury

- 1989** Awarded a Certificate of Distinction for Participation in the Community Regarding the Environment from the town of Ste. Anne de Bellevue, spring
- 1987** Awarded the 1st Snowy Owl Award for Bird Conservation by Quebec Zoological Gardens and Quebec Ministry of Recreation, Fish and Game
- 1986** Elected as an elective member of American Ornithologists' Union
- 1982** Alumni Medal of Achievement from the University of Guelph Alumni Association
- 1982** Chosen as one of 500 Young Canadian Achievers to dine with Queen Elizabeth II at Constitution Ceremonies, April 16
- 1980** Recipient of NSERC University Research Fellowship renewable for 5 years

#### **History of Employment:**

- 1974** Appointed Curator of Macdonald Raptor Research Centre of McGill University
- 1978** Appointed Director of Macdonald Raptor Research Centre of McGill University
- 1978** Awarded Auxiliary Professorship at McGill University
- 1980** Awarded NSERC Research Fellowship
- 1985** Awarded a tenure-track Assistant Professorship at McGill University
- 1988** Awarded tenure and Associate Professorship
- 1990** Awarded one year sabbatical leave.
- 1992** Assumed Directorship of Avian Science and Conservation Centre (formerly the Macdonald Raptor Centre) of McGill University
- 1995** Awarded Full Professorship
- 1998** Awarded one year sabbatical leave
- 2005** Awarded one year sabbatical leave
- 2012** Awarded 6-month sabbatical leave

#### **Consulting Experience in the Last Six Years:**

- 2005** Provided expertise on peregrine falcons nesting in open-pit mine for INCO, Cooper Cliff, Ontario
- 2005** Provided expertise to Quebec Ministry of Transport concerning peregrine falcons nesting on Felix-Leclerc Bridge, St.-Jean-de-Richelieu, Quebec
- 2005** Provided expertise to Quebec Ministry of Transport concerning peregrine falcons nesting on Lavolette Bridge, Trois-Rivieres, Quebec
- 2005** Organized team to conduct bird surveys for Environmental Impact Assessment for iron ore pipeline from Schefferville to Sept-Iles for LabMag
- 2005** Conducted wildlife surveys and evaluated park proposal as an expert witness for ERS Youth Development Corporation
- 2006** Conducted further surveys of waterfowl and raptors for the LabMag project
- 2007** Conducted surveys for raptor nests for Minaskuat, Happy Valley/Goose Bay
- 2007** Consulted on the impact of a proposed ERUV on flying birds for the City of Westmount
- 2007** Served as Expert Witness in court for The Centre for the Conservation of Specialized Species on the impact of noise from a proposed quarry operation on their breeding birds
- 2008** wrote accounts for 62 bird species in book "Birds of North America" for Dorning Kindersley, NY
- 2009** served as Consultant Editor for book "Birds of Canada" for Dorning Kindersely, Toronto
- 2009** supervised government-funded M.Sc. study assessing impact of the Baie-des-Sables wind farm on spring migratory behaviour of birds of prey

**2010 -** served as Peregrine Falcon expert for Horizon Legacy's Big Thunder Wind Park project  
**2011** served as Peregrine Falcon expert for Falcon Environmental Services for Turcotte Interchange project  
**2014** served as Peregrine Falcon expert for Bow River Wind Project in Ontario

#### **Publications In Refereed Journals:**

Katrina M. Sullivan , Sarah C. Marteinson , Robert J. Letcher , David M. Bird , Ian J. Ritchie , J. Laird Shutt & Kim J. Fernie (2013) Changes in the incubation by American Kestrels (*Falco sparverius*) during exposure to the Polybrominated Diphenyl Ether (PBDE) Mixture DE-71, Journal of Toxicology and Environmental Health, Part A: Current Issues, 76:16: 978-989.

Chabot, D. and D.M. Bird. 2013. Small unmanned aircraft: precise and convenient new tools for surveying wetlands. J. Unmanned Vehicle Systems 1: 1–10

Penak, B.L., C. R. Dykstra, S. J. Miller, and D. M. Bird. 2013. Using morphometric measurements to estimate age of nestling Red-shouldered Hawks in two eastern populations. The Wilson Journal of Ornithology 125: 630-637.

Marteinson, S.C., D. M. Bird, R.J. Letcher, K.M. Sullivan, I.J. Ritchie, and K.J. Fernie. 2012. Dietary exposure to technical hexabromocyclododecane (HBCD) alters courtship, incubation and parental behaviors in American kestrels (*Falco sparverius*). Chemosphere 89(9): 1077-1083.

Marteinson, S.C., R. Letcher, L. Graham, S. Kimmins, G. Tomy, V. Palace, I. Ritchie, L. Gauthier, D.M. Bird, and K.J. Fernie. 2012. The flame retardant 1,2-Dibromo-4-(1,2-dibromoethyl)cyclohexane (TBECHE): fate, fertility and reproductive success in American Kestrels (*Falco sparverius*). Environmental Science & Technology 46(15): 8440-8447.

Bélisle, E., M. Gahbauer and D. M. Bird. 2012. Unusual behaviors by a juvenile peregrine falcon: parental interference, siblicide and incest. Journal of Raptor Research 46(3):324-326.

Chabot, D. and D.M. Bird. 2012. Evaluation of an off-the-shelf Unmanned Aircraft System for surveying flocks of geese. Waterbirds 35(1): 170-174.

Bélisle, E., M. Gahbauer and D. M. Bird. Unusual behaviors by a juvenile peregrine falcon: parental interference, siblicide and incest. Journal of Raptor Research (accepted Feb. 9, 2012)

Leonardi, G. and D.M. Bird. 2011. Effects of recent experience and background features on prey detection of foraging American Kestrels (*Falco sparverius*) in captivity. Folia Zoologica 60(3): 214-220

Fernie, K.J., S.C. Marteinson, D.M. Bird, I.J. Ritchie, and R.J. Letcher. 2011. Reproductive changes in American kestrels (*Falco sparverius*) in relation to exposure to technical hexabromocyclododecane flame retardant. Environmental Toxicology and Chemistry 30(11): 2570-2575.

- Heath, J.A., E.H. Strasser, M. A. Foster, L. Bardo, and D. M. Bird. 2011. Challenges In creating an American Kestrel Body Condition Index based on size-adjusted mass. *Journal of Raptor Research* 45(4):324-334.
- Martinson, S.C., S.Kimmins, D.M. Bird, L.J. Shutt, R.J. Letcher, I.J. Ritchie, and K.J. Fernie. 2011. Embryonic exposure to the polybrominated diphenyl ether mixture, DE71, affects testes and circulating testosterone concentrations in adult American kestrels (*Falco sparverius*). *Toxicological Sciences* 121(1):168-176.
- Martinson S.C., Kimmins, S., Letcher R.J., Palace V.P., Bird D.M., Ritchie I.J., and K.J. Fernie. 2011. Diet exposure to technical hexabromocyclododecane (HBCD) affects testes and circulating testosterone and thyroxine levels in American kestrels (*Falco sparverius*). *Environ. Res.* 111:1116-1123.
- Martinson, S.C., D.M. Bird, J.L. Shutt, R.J. Letcher, I.R. Ritchie, and K.J. Fernie. 2010. Multi-generational effects of polybrominated diphenylethers exposure: Embryonic exposure of male American kestrels (*Falco sparverius*) to DE-71 alters reproductive success and behaviors. *Environmental Toxicology and Chemistry* 29 (8):1740 - 1747.
- Lepczyk, C.A., N. Dauphine, D.M. Bird, S. Conant, R.J. Cooper, D.C. Duffy, P.J. Hartley, P.P. Marra, E. Stone and S.A. Temple. 2010. What Conservation Biologists Can Do Regarding Trap-Neuter-Return: A Response to Longcore et al. *Conservation Biology* 24(2): 627-629.
- Frei, B., R.D. Titman, and D.M. Bird. 2010. Bobolink egg mass variability and nestling growth patterns. *Wilson Journal of Ornithology* 122(3):432-438.
- Dubé, M.C., D.M. Bird, A. Dibernardo, L. R. Lindsay, and H. Charest . 2010. Prevalence of West Nile Virus in Wild American Kestrels (*Falco sparverius*) of Southern Quebec, Canada. *Journal of Wildlife Diseases*. 2010 46: 603-607.
- Bird, D. M. and L. Bardo. 2009. The use of captive American kestrels (*Falco sparverius*) as wildlife models: A Review. *Journal of Raptor Research* 43(4): 345-364.
- Bird, D. M. 2009. The American kestrel: from common to scarce. *Journal of Raptor Research* 43(4): 261-262.
- Garland, H., A. del Peral, A., D.M. Bird, and M-A. Fortin. 2009. High frequency of American kestrel strikes at the Montreal-Trudeau International Airport: A case study. *Journal of Raptor Research* 43(4): 382-383.
- Hudson, M-A. and D. M. Bird. 2009. Recommendations for design and management of golf courses and green space based on surveys of breeding bird communities in Montreal. *Landscape and Urban Planning* 92: 335-346.
- Fernie, K., J. Shutt, R. Letcher, I. Ritchie and D. Bird. 2009. Environmentally relevant concentrations of DE-71 and HBCD alter eggshell thickness and reproductive success of American kestrels. *Environmental Science & Technology* (*in press*).
- Fernie, K.J., L. J. Shutt, R.J. Letcher, I.J. Ritchie, K. Sullivan and D.M. Bird. 2008.

Changes in reproductive courtship behaviors of adult American kestrels (*Falco sparverius*) exposed to environmentally relevant levels of the Polybrominated Diphenyl Ether mixture, DE-71. *Toxicological Sciences* 102:171-178.

- Donehower, C. E. and D. M. Bird. 2008. Gull predation and breeding success of Common Eiders on Stratton Island, Maine. *Waterbirds* 31: 454-462.
- Olsen, J., E. Fuentes, D.M. Bird, A.B. Rose, and D. Judge. 2008. Dietary shifts based upon prey availability in peregrine falcons and Australian hobbies breeding near Canberra, Australia. *Journal of Raptor Research* 42(2):125-137.
- Olsgard, M.L., J.E.G. Smits, D.M. Bird. 2008. Exposure to inhaled benzene and toluene shows a paradoxical response in American kestrels. *Learned Discourse, Integrated Environmental Assessment and Management* 5(1): 176-177.
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- Drouillard K.G., K.J. Fernie, R.J. Letcher, L.J. Shutt, M. Ryan, W. Gebink, and D.M. Bird. 2007. Bioaccumulation and biotransformation of sixty-one polychlorinated biphenyl (PCB) and four polybrominated diphenyl ether (PBDE) congeners in juvenile American kestrels (*Falco sparverius*). *Environmental Toxicology and Chemistry* 26:313-324.
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- Fernie, K.J., L. Shutt, I.J. Ritchie, R.J. Letcher, K. Drouillard, and D.M. Bird. 2006. Changes in the growth, but not the survival of American kestrels (*Falco sparverius*) exposed to environmentally relevant polybrominated diphenyl ethers. *Journal of Toxicology and Environmental Health* 69:1541-1554.
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- Chabot, A.A., D. M. Bird, and R.D. Titman. 2001. Breeding biology and nesting success of loggerhead shrikes in Ontario. Wilson Bull. 113:285-289.
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\*\* Bird, D.M. and L. Bardo. The American Kestrel: A White Mouse for Raptor Research? Joint Conference of Raptor Research Foundation and Hawk Migration Association of North America. Fogelsville, Pennsylvania, September 12-16, 2007.

Fernie, K., L. Shutt, D. Bird, R. Letcher, J. Smits, G. Bortolotti. The effects of exposure to polybrominated diphenyl ethers on reproductive performance and immune function in captive American kestrels. 24<sup>th</sup> International Ornithological Congress, Hamburg, Germany, August 13-19, 2006.

Fernie, K.J. R.J. Letcher, S. Shahmiri, B. Ratcliff, T. Armstrong, C.J. Risley, D.M. Bird, and L.J. Shutt. Peregrine falcons (*Falco peregrinus*), contaminants and health biomarkers in the Canadian Great Lakes basin. IV North American Ornithological Conference, Veracruz, Mexico, October 3-7, 2006.

Dube, M.C., D.M. Bird, A. Dibernardo, R. Lindsay, and H. Charest. Absence of an impact of West Nile virus on breeding American kestrels in southwestern Quebec. IV North American Ornithological Conference, Veracruz, Mexico, October 3-7, 2006.

Fraser, S.J., D.M. Bird, and R.D. Titman. Is radiotelemetry an effective technique for loggerhead shrikes? IV North American Ornithological Conference, Veracruz, Mexico, October 3-7, 2006.

Hudson, M-A. and D.M. Bird. Nest-site selection and nest success of birds on Montreal-area golf courses and green spaces. IV North American Ornithological Conference, Veracruz, Mexico, October 3-7, 2006.

Bardo, L. and D.M. Bird. Research and education opportunities at the Avian Science and Conservation Centre (ASCC) of McGill University. IV North American Ornithological Conferences, Veracruz, Mexico, October 3-7, 2006.

Fernie KJ, L Shutt, G Mayne, R Letcher, I Ritchie, D Bird, K Drouillard. Changes in growth and thyroid function of American kestrels exposed to environmentally-relevant polybrominated diphenyl ethers. Fortieth Central Canadian Symposium on Water Quality Research, February 14-15, 2006, Burlington, Ontario

\*\* Bird, D.M. The American kestrel: a "white mouse" for raptor research? Department of Biology, University of Reno, Nevada, May 4, 2006.

Fernie KJ, L Shutt, G Mayne, R Letcher, I Ritchie, D Bird, K Drouillard. Changes in growth and thyroid function of American kestrels exposed to environmentally-relevant polybrominated diphenyl ethers. European Ornithological Union, 20-23 August 2005, Strasbourg, France

Donehower, C. , D.M. Bird, and S. Kress. Great black-backed gulls as raptors: who needs talons? Raptor Research Foundation Annual Meeting, October 12-16, 2005, Green Bay, Wisconsin

Gahbauer, M.A. and D.M. Bird. Genetic origin of peregrine falcons (*Falco peregrinus*) breeding in Canada. Raptor Research Foundation Annual Meeting, October 12-16, 2005, Green Bay, Wisconsin

\*\* Bird, D.M. Technology and Birds of Prey: A Double-Edged Sword. Institute of Applied Ecology, University of Canberra, Feb. 8, 2005

C.E. Donehower, D.M. Bird, and S.W. Kress. Quantifying gull predation at a Maine tern colony. Association of Field Ornithologist/Wilson Ornithological Society Annual Meeting, Ithaca, NY, April 22-25, 2004.

Hudson, M-A. and D. M. Bird. Reproductive performance of selected avian species breeding on Montreal-area golf courses and neighbouring green spaces. Association of Field Ornithologist/Wilson Ornithological Society Annual Meeting, Ithaca, NY, April 22-25, 2004.

Bird, D.M., H. Charest, A. Dibernado, T.W. Spithill and R. Lindsay. Presence of West Nile virus antibodies in wild nesting American kestrels in southern Quebec. 2004 Annual Meeting of Society of Canadian Ornithologists/American Ornithologists= Union, Quebec, Quebec, August 16-21, 2004.

Laing, D.K., D.M. Bird, T. Chubbs and G. Humphries. Migration of juvenile bald eagles and osprey from central Labrador. 2004 Annual Meeting of Society of Canadian Ornithologists/American Ornithologists= Union, Quebec, Quebec, August 16-21, 2004.

Gahbauer, M.A. and D.M. Bird. Nest site characteristics and productivity of peregrine falcons (*Falco peregrinus*) in southern Ontario. 2004 Annual Meeting of Raptor Research Foundation/California Hawking Club, Bakersfield, California, November 10-13, 2004.

Bird, D.M., K.L. Bildstein, D.R. Ardia, K. Steenhof, J. Smallwood, J. Mason, M. Maurer, M.F. Causey, D. Mossop, A. Dibernado, R. Lindsay, D. McCartney and J. Henrickson. Are American kestrel populations in a state of decline in North America? 2004 Annual Meeting of Raptor Research Foundation/California Hawking Club, Bakersfield, California, November 10-13, 2004.

\*\* Bird, D.M., B. Hunter, B. and P. Redig. Prevalence of West Nile virus in birds of prey in North America. 3rd Africa and Middle East Section, Wildlife Disease Association Meeting, Abu Dhabi, United Arab

Emirates, December 10-13, 2004.

\*\* Fernie, K., L. Shutt, R.J. Letcher, K. Drouillard and D.M. Bird. Polybrominated Diphenyl Ethers: An Emerging Threat to Raptors. 3rd Africa and Middle East Section, Wildlife Disease Association Meeting, Abu Dhabi, United Arab Emirates, December 10-13, 2004.

\*\* Bird, D.M. Teaching wildlife ecology in urban/suburban environments. 3<sup>rd</sup> Annual Conference for Preschool, Elementary and Secondary Teachers. Laval, Quebec, June 28-29, 2004.

C.E. Donehower, D.M. Bird, and S.W. Kress. Predation rate and predatory behavior of large gulls at Eastern Egg Rock, ME. Gulf of Maine Seabird Working Group Conference Hog Island, Maine, Aug. 14, 2003.

\*\* Bird, D.M. Technology and birds of prey: a double-edged sword. Trent University, Peterborough, Ontario, December 1, 2003

Fernie, K., L. Shutt, G. Mayne, K. Drouillard and D. M. Bird. Polybrominated diphenyl ethers, thyroid function, and development of captive American kestrels (*Falco sparverius*). Annual Meeting, Raptor Research Foundation, Anchorage, Alaska, September 2-7, 2003

Richards, N., P. Mineau, and D. Bird. Eastern screech-owls and pesticide use in Quebec orchards. Annual Meeting, Raptor Research Foundation, Anchorage, Alaska, September 2-7, 2003

\*\* Bird, D. M. Status of the osprey in North America. Osprey Technical Workshop, St. John=s, Newfoundland, October 16-17, 2003.

\*\* D.M. Bird, Laing, D.,T.E. Chubbs, and G.R. Humphries. Satellite tracking of ospreys in Labrador. Osprey Technical Workshop, St. John=s, Newfoundland, October 16-17, 2003.

Fisher, S.A., G.R. Bortolotti, J. Smits and D. Bird. Behavioural effects of PCB exposure on American kestrels during incubation. Annual Meeting of Society of Canadian Ornithologists, Saskatoon, Saskatchewan, October 16-18, 2003.

C.E. Donehower, D.M. Bird, and S.W. Kress. Quantifying gull predation at a Maine tern colony. Association of Field Ornithologist/Wilson Ornithological Society Annual Meeting, Ithaca, NY, April 22-25, 2004.

Hudson, M-A. and D. M. Bird Reproductive performance of selected avian species breeding on Montreal-area golf courses and neighbouring green spaces. Association of Field Ornithologist/Wilson Ornithological Society Annual Meeting, Ithaca, NY, April 22-25, 2004.

\*\* Bird, D.M. (Chief Organizer and Chair) and M. Ferrer. Symposium on Endangered Raptors of The World. 4<sup>th</sup> Eurasian Congress on Raptors, September 25-29, 2001, Sevilla, Spain.

\*\* Bird, D. M. (Chair). Pros and cons of the establishment of falconry in Spain. 4<sup>th</sup> Eurasian Congress on Raptors, September 25-29, 2001, Sevilla, Spain.

\*\* Bird, D. M., T. Mason, and R. Wenting. Development of captive breeding and release technology for the eastern Canadian population of loggerhead shrike (*Lanius ludovicianus migrans*). 4<sup>th</sup> Eurasian Congress on Raptors, September 25-29, 2001, Sevilla, Spain.

\*\* Bird, D. M. Technology: A Double-Edged Sword for Raptors. National University of Singapore, Singapore, August 17, 2001.

\*\* Bird, D. M. Hidden Treasures: Enhancing the Quality of Life for McGill Managers B The Avian Science and Conservation Centre. Second Annual Management Forum Conference, McGill University, November 23, 2001.

\*\* Bird, D. M.. Technology: A Double-Edged Sword for Raptors. Robert Vogel Lecture Series, McGill University, November 27, 2001

Smits, J.E., G.R. Bortolotti, K.J. Fernie, T. Marchant, and D.M. Bird. Sex-specific effects of PCB exposure in American kestrels (*Falco sparverius*). 4<sup>th</sup> Eurasian Congress on Raptors, September 25-29, 2001, Sevilla, Spain.

Fernie, K.J., J.E. Smits, G.R. Bortolotti, K.G. Drouillard, and D.M. Bird. Growth of American kestrels exposed to polychlorinated biphenyls: immediate and subsequent generational effects. Annual North American Meeting, Society of Environmental Toxicology and Chemistry, November 15-20, 2001.

Love, O.P., L.J. Shutt, D.M. Bird, and J. Silfies. Effects of dietary PCB exposure on the adrenocortical response of captive American kestrels. Annual Meeting, American Ornithologists= Union and Society of Canadian Ornithologists, Seattle, Washington, August 12-15, 2001.

Gabhauer, M. , D.M. Bird, and G. Holroyd. Migration patterns of juvenile peregrine falcons using satellite telemetry. Annual Meeting of the Raptor Research Foundation, Winnipeg, Manitoba, October 25-28, 2001.

Bird, D.M. Can we have too many birds? 118<sup>th</sup> Stated Meeting of American Ornithologists= Union/19th Meeting of Society of Canadian Ornithologists, August 14-19, 2000, Memorial University, St. John=s, Newfoundland.

J. L. Coleman, D.M. Bird, and E.A. Jacobs. Nesting ecology of the sharp-shinned hawk (*Accipiter striatus*) in southern Quebec. 2000 Meeting of Raptor Research Foundation, Inc., November 8-12, 2000, Jonesboro, Arkansas.

Fernie, K.J. and D.M. Bird. Effects of electromagnetic fields on growth of American kestrels (*Falco sparverius*). 1999 Meeting of Raptor Research Foundation, Inc., November 3-7, 1999, La Paz, Mexico.

Drouillard, K.G., K. Fernie, D.M. Bird, J.E. Smits, G.R. Bortolotti, and R.J. Norstrom. Bioaccumulation and toxicokinetics of PCBs in American kestrels (*Falco sparverius*). Empirical models for estimation of elimination rates of persistent and readily metabolized congeners. 43<sup>rd</sup> Conference of International Association for Great Lakes Research. May 22-26, 2000, Cornwall, Ontario.

Audet, M., M. Fortier, P. Brosseau, W. Bowerman, D. Bird, and M. Fournier. Health status of immune system for endangered species of raptor, bald eagle, from two biomarkers; lymphocytes proliferation and phagocytosis. 43<sup>rd</sup> Conf. of International Association for Great Lakes Research. May 22-26, 2000, Cornwall, Ontario.

Lougheed, S., J. Davila, M. Valianatos, R. Wenting, D. Bird, L. Pruitt, J. McCracken, D. Cuddy, J. DeSmet, T. Mason, B. Johns, and P. Boag. Genetic perspectives in conservation of a declining songbird: diversity, demography and hybrid zone dynamics. STAGE Genomics Workshop. April 30, 2000, Hull, Quebec.

Bortolotti, G.R., J.E. Smits, K.J. Fernie, and D. M. Bird. PCBs alter plasma carotenoids and carotenoid-based colouration in American kestrels (*Falco sparverius*). Canadian Network of Toxicology Centres Annual Symposium. March 27-28, 2000, Hull, Quebec.

**Grants held since 2000:**

2012-2013 Institute of Environmental Monitoring and Research Application of Unmanned Aerial Vehicles to Estimating Caribou Populations in Labrador/\$50,000/yr

2011-2012 Kenneth Molson Foundation/ Grant to Establish a New Scientific Journal entitled Journal of Unmanned Vehicle Systems/\$30,000/yr

2011-2012 Kenneth Molson Foundation/ Application of Unmanned Aerial Vehicles to Estimating Caribou Populations in Labrador/\$65,000/yr

2010-2012 Kenneth Molson Foundation/Application of Unmanned Aerial Vehicle (UAV) Technology to Wildlife Conservation Research/\$25,000/yr

2009-2010 Canadian Wildlife Service / Garde, Entretien et Reproduction en captivité d'une colonie de Pied-Grièche migratrices de l'Est/ \$74,750/yr

2005-2010 NSERC Discovery Grant / Influence of polybrominated diphenyl ethers on avian reproductive function/ \$32,200/yr

2009 - 2010 Canadian Wildlife Service /Graduate Research Related to the Toxicology of brominated flame retardants and birds/ \$45,000/yr

2009-2010 Kenneth Molson Foundation/Application of Unmanned Aerial Vehicle (UAV) Technology to Wildlife Conservation Research/\$25,000/yr

2009-2010 Environment Canada / The Effects Resulting from Exposure of American Kestrels (*Falco sparverius*) to Brominated Flame Retardants (BFRS), BDE-209 and HBCD (Hexabromocyclododecane) / \$20,700/yr

2009 – 2010 Canadian Wildlife Foundation/Application of Unmanned Aerial Vehicles to Bird Conservation Research/\$5,000/yr

2007-2008 Fondation de la Faune du Quebec / Radio-Tracking Captive-Released Loggerhead Shrikes \$10,000/yr

2007-2008 Quebec Ministry of Natural Resources and Wildlife/Impact of Wind Turbines on Migrating Raptors and Nesting Bald Eagles/ \$45,200/yr

2007-2008 Kenneth Molson Foundation/Application of Unmanned Aerial Vehicles to Bird Conservation Research/\$25,000/yr

2006-2008 Fondation de la Faune du Quebec/Bobolinks and Agriculture in Quebec/\$9,000/yr

2004-2010 Canadian Wildlife Service / Breeding and Release Technology for Loggerhead Shrikes \$65,000/yr

2004-2007 Fondation de la Faune du Quebec / Breeding and Release Technology for Loggerhead Shrikes \$10,000/yr

2005-2010 NSERC Discovery Grant / Influence of polybrominated diphenyl ethers on avian reproductive function \$32,200/yr

2003-2004 Canadian Wildlife Service Ontario Region / Breeding and Release Technology for Loggerhead Shrikes \$37,000

2003-2004 Departmental of National Defence / Institute of Environmental Monitoring Research / Migration patterns of osprey and bald eagles and low-level military jet flights / \$20,000

2000-2001 La Ministère de l'Environnement du Québec Elaboration de fiches sur les paramètres d'exposition pour 28 espèces d'oiseaux pouvant servir à la réalisation d'une évaluation du risque écotoxicologique d'un terrain contaminé \$59,181

2000- 2001 La Fondation de la Faune du Quebec Experimental Releases of Loggerhead Shrikes \$20,000

2001 - 2002 Canadian Wildlife Service Breeding and Release Technology for Loggerhead Shrikes \$20,000

2001 Alf Kelly Support Grant Montreal Bird Collision Research \$1,500

- as Director of the Avian Science and Conservation Centre, annually raise approx. \$30,000 from donors, golf tournament, etc. to be used for operation of ASCC, e.g. technician salary, vehicles, etc.

- as co-Director of the Urban Nature Information Service, raise \$8,000 annually to pay for salaries, etc.

### **Graduate Student Supervision:**

**Current Graduate Students:** M.Sc.: 2 Ph.D.: 2

Dominique Chabot (Ph.D.) Application of fixed-wing Unmanned Aerial Vehicles to wildlife biology

James Junda (M.Sc.) Behavioural responses of large nesting birds to rotary Unmanned Aerial Vehicles

Charla Patterson (M.Sc.) Using Unmanned Aerial Systems to track caribou

**Past Graduate Students:** M.Sc.: 36 Ph.D.: 10

Penak, Brenda (M.Sc. 1982)	Biologist, Wildlife Habitat Canada
Rehder, Nancy (M.Sc. 1983)	administrative assistant, Calgary
Carriere, Daniel (M.Sc. 1985)	Quebec government biologist
Duncan, James (M.Sc. 1985)	Nature Conservancy, Winnipeg, Manitoba
Bowman, Reed (M.Sc. 1985)	Adjunct Prof., Univ. South Florida
Brock, Kelly (M.Sc. 1986)	Biologist, U.S.Navy Shrike Recovery San Diego
Stewart, Glenna (M.Sc. 1987)	Registered Nurse

Lavigne, André, (M.Sc. 1987)	Fund-raiser, Laurentian Univ.
Saumier, Michèle (M.Sc. 1987)	Public school teacher
Schaadt, Charles (Ph.D. 1989)	Asst. prof., Penn. State Univ.
Gard, Nicholas (M.Sc. 1989)	Biologist, Industry
Hunt, Katherine (M.Sc. 1990)	Working at home
Bombardier, Manon (M.Sc. 1992)	Contract biologist
Jee Yan Chu (M.Sc. 1992)	teacher
Derin Henderson (M.Sc. 1993)	Contract biologist, Canadian Wildlife Service
Kelly MacLellan (M.Sc. 1994)	Veterinarian
Amy Chabot (M.Sc. 1994)	Contract biologist
Serge Brodeur (M.Sc. 1994)	Contract biologist
Laird Shutt (Ph.D. 1995)	Director, National Wildlife Research Centre, Ottawa
Meloni Muir (Ph.D. 1995)	Post-doctoral Fellow, Australia
Cristian Palma Haug (M.Sc. 1995)	veterinarian
Arief Soendjoto (M.Sc. 1995)	forestry biologist, Indonesia
Heather Cunningham (M.Sc. 1995)	M.Sc. Library Science, McGill University
Isabelle Bisson (M.Sc. 1996)	Post-doctoral fellow, Princeton, NJ
Morris Villarroel (Ph.D. 1997)	Biologist, Spain
Kim Fernie (Ph.D., 1998)	Biologist, Canadian Wildlife Service, Burlington
Peter Thomas (M.Sc. 1999)	Endangered Species Biologist, CWS
Leslie Kerr (M.Sc. 1999)	teacher, Yukon
Veera Harnal (M.Sc., 2000)	Librarian Scientist
Joanna Coleman (M.Sc. 2002)	Ph.D., Univ. Of Calgary
Oliver Love (M.Sc. 2002)	Completed Ph.D., Univ. British Columbia
Marc Pauze (M.Sc. 2002)	Board of National Energy, Calgary
Alain Fontaine (M.Sc. 2002)	Biologist, Canadian Wildlife Service, Nunavut
Ngaio Richards (M.Sc. 2003)	Ph.D., forensic science, Anglia PolyTech. Univ., UK
Dawn Laing (M.Sc. 2005)	Biologist, Environment Canada, Downsview, Ontario
Christina Donehower (Ph.D. 2007)	Restoration Ecologist, Puget Sound, WA
Sarah Fraser (M.Sc. 2007)	Biologist, Prairie Research Associates, Ottawa
Gahbauer, Marcel (Ph.D., 2008)	Biologist, Stantech, Calgary
Barb Frei (M.Sc., 2008)	Ph.D., Trent and McGill Universities
Michael Ross-Boulianne (M.Sc., 2008)	Biologist with First Nations organization, Quebec City
Katrina Sullivan (M.Sc., 2009)	Currently seeking permanent employment
Hudson, Marie-Anne (Ph.D., 2009)	Biologist, National Wildlife Research Centre, Environment Canada, Ottawa
Goulet, Raphael (M.Sc. 2010)	environmental biologist with U.N. in Montreal
Kobiliris, Demetrios (M.Sc. 2010)	currently seeking permanent employment
Sarah Martinson (Ph.D. 2010)	lecturing at Univ. Sherbrooke and with McGill's CFSIA in Kenya
Kristen Keyes (M.Sc. 2011)	endangered species biologist, Inverness, Scotland
Lina Bardo (Ph.D. 2011)	currently seeking permanent employment
Tiffany Gilchrist (M.Sc. 2012)	currently seeking permanent employment

**Post-Doctoral Students and Employees:** I have had a post-doctoral fellow, Dr. Juan Jose Negro, from Spain funded by his government, an NSERC post-doctoral fellow, Dr. Diane Lacombe, and a post-doctoral fellow, Dr. Giovanni Leonardi, from Italy. I have had two technicians, Ian Ritchie and Mark Adam, who were trained entirely through my kestrel research; Ritchie was with me for about 30 years. Each summer I hire undergraduate students for various research projects, which in turn aids their entry into either graduate research or the job market. For 30 years, I conducted international summer student internships, a program which has attracted over 60 interns from Canada as well as England, Italy, Spain, Germany, Mexico, U.S.A., China, Czech Republic, Turkey, Australia, and France.



### Summary of Undergraduate Teaching Experience:

**Note: Courses currently being taught in Fall 2011 and Winter 2012 are underlined.**

**Since 1985, full-semester courses have included:**

Wildlife Ecology 375-410B approx. 25-50 students

Avian Physiology 375-500B approx. 6-10 students (offered in alternative years)

Communication and Extension Methods 352-500B approx. 25 students

Fish and Wildlife Propagation WILD 382 approx. 20 - 28 students (offered in alternate years)

Wildlife Conservation WILD 421 approx. 28 - 43 students

Ornithology for Africa Program WILD 420, approx. 8 - 10 students

Ornithology WILD 420 approx. 25 to 45 students (give half of the lectures and one laboratory session, and attend weekly morning field trips)

Ethology WILD 311 approx. 30 to 60 students

Projects 372-491D, 375-496D,N, 375-497D,N approx. 10 students

Graduate Seminar in Wildlife 375-640D, 641D, 642D approx. 10-15 students

Scientific Communication NRSC 491 and 492, approx. 50 students

Fisheries and Wildlife Management WILD 401 approx. 15-30 students (give 7 lectures and attend 3-4 days of field lab)

Natural History of East Africa NRSC 300 approx. 35 students (give one-third to half of the course, mainly field trips with some lectures)

### **Academic-Related Administrative Activities:**

#### **Department of Natural Resource Sciences:**

2011	member of Committee to Select New NRS Chair
2002	Chairman of Recruitment Committee
1999	Member of Recruitment Committee
1994	Member of Space Allocations Committee for Dept. Nat. Res. Sciences
1991	Chairman of Committee to Establish Departmental Coffee Room
1987	Chairman of Graduate Student Poster Advertisement Committee for Renewable Resources
1981-86	Representative Member for Department of Renewable Resources with Faculty of Graduate Studies and Research
1986	Member of Graduate Student Guidelines Committee

- 1978- Director of Avian Science and Conservation Centre (formerly the Macdonald Raptor Research Centre)
- 1999- Co-supervise operation of Urban Nature Information Service

**Faculty:**

- 2011- 12 Served as facilitator for Café Session for Improvements to Mac Campus
- 2010 Gave lecture in Food for Thought series
- 2009-?? Serve on Founder's Day Committee
- 2008 Served on Faculty Planning Committee
- 2007 Served on Centenary Committee
- 2007 Served on Admissions Committee
- 2007 Served as Dean's Representative and Chaired Ad-hoc Committee to re-open the Macdonald Farm to the public
- 2007 Served as Pro-Dean for Department of Food Science and Environmental Chemistry
- 2006 Served as Pro-Dean for Institute of Parasitology
- 2004 initiated a column called From the Podium for The Afterthought, a student newspaper on the Macdonald campus
- 2004 Served as Host for Founder=s Day
- 2003-04 Co-chaired Founder=s Day Committee
- 2003-05 Served on Admissions Committee
- 2002-?? Serve on Faculty Student Recruitment Committee
- 2002-04 Served on Physical Facilities Committee
- 1999-02 Served on Faculty Promotions Committee
- 1999-02 Served on Scholastic Awards Committee for Faculty
- 1997 Served as Pro-Dean in Dept. Animal Science
- 1997-98 Served on Student Recruitment Committee
- 1994-95 Member of Macdonald Campus Committee on the Environment
- 1994 Served as Pro-Dean in Department of Food Sciences
- 1982-94 Member of Animal Care Committee
- 1991-94 Chairman of Founder's Day Committee
- 1992 Served as Pro-Dean in Dept. of Agric. Eng.
- 1985-96 Member of Sub-committee on Physical Facilities for Macdonald College
- 1989-90 Member of Macdonald College Athletic Advisory Board
- 1990 Co-Chairman of Environmental Sciences Curriculum Committee
- 1986-87 Chairman of Space Allocation Project Group
- 1985-87 Member of Student Recruitment Committee
- 1982-85 Member of Community Relations Committee for Macdonald College
- 1983-85 Chairman of Community Relations Committee for Macdonald College
- 1976 Member of Advisory Committee to Select a New Dean of Macdonald College

**University:**

- 2010-?? Member of the McGill Unmanned Systems Group
- 2000 - 2010 Co-founded and co-organize the Urban Nature Information Service, a summer hotline service for the public
- 2000- ?? Appointed as an Associate Member of the McGill School of the Environment
- 1995 Member of McGill University Tourism Work Study Group
- 1992 Served as Pro-Dean in Dept. of Chemistry
- 1992 Member of Cyclical Review Committee for Animal Resources Centre

### **Other University-related Administration:**

1997 Represented Faculty for student recruitment at Salon de l'Éducation, Palais de Congrès  
1997 Represented Faculty for student recruitment at Dawson College  
1997 Chairman of Ad-hoc Committee for David Suzuki Presentation, Oct. 24, 1997  
1985 Member of Organizational Committee for Dean Lloyd's Roast, May 2  
1982-84 Member of Board of Directors of Macdonald College Faculty Club  
1983-84 Member of the House Committee of Macdonald College Faculty Club  
1981 Council member of Sigma XI for 1981

### **Current Memberships in Professional Societies:**

Raptor Research Foundation Inc.  
American Ornithologists' Union  
Wilson Ornithological Society  
Society for Canadian Ornithologists  
Unmanned Systems Canada

### **Memberships in Non-Professional Societies**

Bird Protection Quebec, Inc.  
Canadian Wildlife Federation  
Bird Studies Canada  
American Birding Association

### **Major Contributions to Societies:**

#### **American Birding Association**

- elected to the board in 2000; served three terms for 9 years
- served on Publications Committee 2000 -
- served on Conservation Committee 2000 - 2004
- chaired Education/Conservation committee 2004 -
- chaired Conservation Committee as of 2006

#### **International Ornithological Committee**

- elected a member representing Canada in 1998

#### **Raptor Research Foundation, Inc.**

- President, 1996-98
- President-elect, 1994-95
- Vice-president for 1990
- Vice-President for 1993-95
- chaired Public Education Committee
- chaired Conference Guidelines Committee
- chaired Conference Committee
- chaired Development Committee
- co-chaired Public Relations Committee
- served on several others
- served on Board of Directors from 1978 to 1992
- organized annual meeting in Montreal in 1981
- co-chair, Ad Hoc Committee on Lobbying
- served on Student Awards Committee several times

**American Ornithologists' Union**

- served on Student Awards Committee three times
- elected as an elective member
- co-chairman of 1991 AOU meeting in Montreal
- chaired Memberships Committee 1992-95
- elected Fellow in 1995
- member of Brewster and Coues Awards Committee 1997-99
- serve on Nominations of Fellows Committee 2005 -

**Ornithological Societies of North America**

- served on Newsletter Editor Search Committee

**Canadian Society of Zoologists**

- served as chairman of Wildlife Biology section
- served as councillor for Executive

**Society of Canadian Ornithologists**

- served as President 2008-2010
- elected Vice-President and President-Elect in 2006
- councillor to executive 1997-2000
- chair of Awards Committee 1998-present
- member of Conservation Committee
- elected Vice-President 2000
- elected Councillor 2005

**World Working Group on Birds of Prey**

- served on three committees
- served as a Vice-President from 1992 to 2000

**Canadian Nature Federation**

- served on three committees
- served as Quebec representative on Board of Directors

**Province of Quebec Society for Protection of Birds Inc.**

- served on several committees
- chaired two committees
- served on Board of Directors from 1977 to 1987

**St. Lawrence Valley Natural History Society**

- chaired one committee
- member of Board of Directors from 1983 to 1992

**Zoological Society of Montreal**

- served on one committee
- served on Board of Directors from 1982 to 1984

**National Peregrine Falcon Recovery Team**

- member from 1987 to present

**National Loggerhead Shrike Recovery Team**

- member from 1990 to 2004
- member of Quebec Recovery Action Group 2004 -

### **Unmanned Systems Canada**

- member of Board of Directors 2010 - ??
- Chair of Committee to Establish a Scientific Journal

### **Other Miscellaneous Professional Duties:**

- serve on editorial board of journal, Animal Biodiversity and Conservation, published by the Museu de Zoologia, Barcelona
- serve as a member of Board of Advisors for the Wildlife Research Institute
- served as a member of Advisory Board for Endangered Species Council
- for several years gave a spring and a fall bird-banding demonstration to members of the Morgan Arboretum (with Dr. Rodger Titman)
- produced a weekly nature/environment report for CFCF-CTV, a major English television network in Quebec for 3 years
- produced seven television reports for The Discovery Channel (Canada) in 1995
- produced a weekly nature column on CJAD AM talk radio for 45 weeks in 1995
- besides numerous interviews on radio and television and in newspapers annually, write a monthly column on birds in Saturday Montreal Gazette .
- write two bi-monthly columns called Quick Takes and Watching Bird Behavior in BirdWatchers= Digest magazine
- write two bi-monthly columns called Bird=s Behavior and Species Profile in Backyard Bird News newsletter for BirdWatcher=s Digest
- appear on CJAD Talk Radio and CBC radio as either a guest or an expert several times annually
- each year give 6 - 10 invited public presentations on various aspects of birds to nature societies, social groups, and bird and nature festivals
- founded the Montreal Bird Festival in 2000; now called the Montreal BirdFest held at the Biodome
- initiated and co-owned a nature retail store called Wildlifers for 18 years from 1988 to 2006
- **updated March 6, 2012**