

# Giberson Laboratory - Students

## UNDERGRADUATE RESEARCH PROJECTS SUPERVISED:

Students in my lab typically work on projects relating to aquatic entomology, including work on a variety of habitats. There has also been opportunity in my lab for students to do collaborative work on other freshwater biology topics, general insect biodiversity, and agricultural entomology. See the list below for some of current topics we're working on in the lab.

- \* General aquatic insect ecology in streams of PEI, NS, & NB
- \* Land use effects on streams or estuaries on PEI
- \* Biting flies on PEI and the Magdalen Islands,
- \* Pitcher Plant ecology
- \* Invasive species
- \* Aquatic insects in Arctic streams



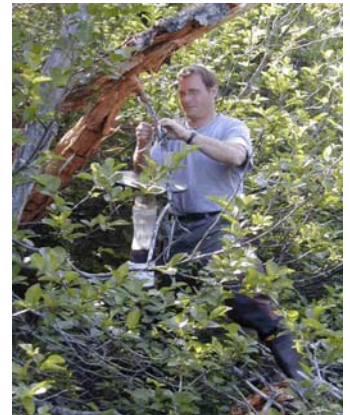
## GRADUATE PROJECTS SUPERVISED:

### *Current Graduate Students:*

#### **Jeff Ogden:**

*Thesis topic:* Aquatic insect biodiversity, and influences of logging regime on stream communities in the uplands of Cape Breton Island, Nova Scotia.

Jeff is working through Mount Allison University, and is evaluating aquatic insect community structure in a group of streams in a part of the Cape Breton Highlands that lies adjacent to the National Park. He is a full time employee of Nova Scotia DNR, and has been working part time on his master's studies. He should finish up early in 2011.



#### **Clayton D'Orsay**

*Thesis topic:*

The effects of grazing and management intensity on beetle (Carabidae, Curculionoidea and Staphylinidae) diversity on a managed dairy pasture in Nova Scotia, Canada

Clayton is co-supervised by Dr. Dave McCorquodale at Cape Breton University. He should finish his thesis in 2011.

#### **Denis Doucet**

*Thesis Topic:* Methods for determining conservation status for riverine dragonflies in New Brunswick

Denis works as a park interpreter at Kouchibouguac National Park in New Brunswick, and is doing his Master's work part time. He is well known for his amazing wildlife photos, especially of dragonflies.



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## **Meghan Marriott**

*Thesis topic:* Status and long-term trends in Lady beetles in eastern Canada, based on a combination of current collecting and examination of museum records.

Meghan has travelled to museums across Canada to identify and database their lady beetles, as well as carrying out collecting in PEI and Cape Breton Island. Her study will provide the basis for a series of COSEWIC reports on the status of this colourful group in Canada.



## **Kristen Vinke**

*Thesis topic:* Challenges in Northern Aquatic Sampling: An investigation into protocols for a sustainable Bimonitoring program in the Sahtu, NWT

Kristen is working in collaboration with the Sahtu Renewable Resources Board in Norman Wells, Northwest Territories, to set up a stream monitoring program that will involve local youth, and provide important baseline data for further study of the local streams. She is evaluating a number of sampling protocols to see how relevant they are for sub-arctic conditions.

## **Kyle Kynsh**

*Thesis topic:* Biodiversity and impacts of agriculture on aquatic invertebrates in small cold-springs on PEI.

Kyle is working in collaboration with the Souris River watershed on PEI to look at the insects in these small headwater streams, and how they may vary depending on the amount of agriculture in the watershed.



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## ***Recent Graduate Students***

**Jane Caiger:** Nutrient composition of children's lunches: The association between the school food environment, dietary intake, and weight status of elementary school children.

**Dau-Schmidt, Kathryn:** Economic thresholds for European Corn Borer in PEI potatoes

**Rachael Eedy:** Importance of detritus, substrate and flow to macroinvertebrate distribution in sections of the West River, PEI

**Lisa Purcell:** Evaluation of the effects of agricultural land use practices on Macroinvertebrates in Prince Edward Island Streams using the reference condition approach

**Michelle Dobrin:** Effects of disturbance on stream insects in Prince Edward Island National Park

**Heather Garnett:** Effects of timber harvest on leaf litter processing dynamics and invertebrate/microbial interactions in a small New Brunswick stream

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