Chad Davey

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Summary

- Masters in Physical Geography, specializing in fluvial geomorphology and the spatial organization of salmon habitat.
- Extensive geomorphic (surveying, sediment sampling) and biological (fish sampling, limnological sampling) field experience in rugged, remote locations.
- Teaching experiencing in both the field and classroom environment.
- Experience in supervising work groups and collaborating on multi-disciplinary and multi-scale research projects.
- Comfortable using most raster and vectored based GIS software.

Education

- McGill University, Montreal, Quebec 2002 to 2004
 - Masters of Science in Physical Geography
 - Thesis focused upon reconstructing spring flood hydraulics, sediment entrainment and landscape-scale sectioning of suitable rearing and spawning habitat of Atlantic salmon with the aid of digital imagery.
- Okanagan University College, Kelowna, B.C. 1997 to 2002
 - Bachelor of Arts in Geography and minor in Ecology

Employment History

- Masters Field Work in the Saguenay, Quebec Summers of 2002 and 2003
 - Field excursions (8 months total) involved extensive river surveying using DGPS, GPS, and Total Station equipment. A significant portion of the field semesters were also dedicated to river sediment sampling (via Wolman's and bulk sampling), and fish sampling (via tagging fish and electro-fishing).
 - Field work was conducted along the Ste Marguerite River, a remote location within the Saguenay Region of Quebec. The field station alongside the Ste Marguerite River provided basic amenities and field work was done in adverse weather conditions (rain, snow, heat).

- McGill University Teaching Assistant in Montreal, Quebec Sept 2002 to Dec 2003
 - Taught a 3-day geography field school, field technique instruction included: GPS use, river surveying, sediment sampling and river hydrologic sampling.
 - Lecture topics I have covered within the classroom: forestry and watershed hydrology, river hydraulics and geomorphology, map interpretation, soil infiltration controls and properties, earth radiation balances and groundwater hydrology.
- Friends of Keji / Parks Canada, Kejimikujik National Park, Nova Scotia Summer of 2001
 - My task was to construct an environmental impact assessment (EIA) regarding the removal of old logging dams that had artificially raised the water level within Cobrielle Lake and continued to obstruct fish and amphibian migration to surrounding lakes.
 - The final component of my work term with Parks Canada required a written environmental assessment of old logging dams on Cobrielle Lake. The 40-page assessment issued a strong contextual framework and emphasis on restoring the ecological integrity of disturbed areas.
- NASA / University Space Research Association (USRA), Washington D.C. - Summer of 2000
 - Employed by NASA/USRA to assess LIDAR's remote sensing capabilities in detecting tree top and ground elevation measurements in comparison to IFSAR's remote sensing technology.

Skills and Interests

- Proficient in the following software programs:
 - Most versions of ArcView, ArcGIS, ArcMap, IDRISI, Imagine.
 - Microsoft Word, Excel, Powerpoint
 - SYSTAT (Statistical and Graphing software)
- Carpentry and house building experience
- Intermediate mechanical knowledge (gas and diesel)
- Able to drive motor boats/zodiac
- Very nimble in a canoe and kayak
- Rock climbing and mountaineering
- Photography and developing of own film and prints
- Intermediate knowledge in reading, writing and speaking French

Publications

- Davey, C.E., and M.F. Lapointe. 2004. Longitudinal Patterns of Shear Stress, Grain Size and Sediment Mobility in Sedimentary Links: a geomorphic perspective on assessing Atlantic salmon productivity in rivers. Canadian Geophysical Union (CGU) Joint Assembly, Montréal, May 17-21, 2004.
- Davey, C.E., and M.F. Lapointe. UNDER REVIEW. The Effect of Coarse Sediment Source Characteristics on Riverscape Structure: Sedimentary Links and the Spatial Organization of Atlantic salmon (Salmo salar) Spawning habitat in a Canadian Shield River. Geomorphology.

References

Michel Lapointe

- Michel supervised my Masters thesis research in 2002 to 2004.
- Professor of Fluvial Geomorphology at McGill University, Montreal Quebec.
- Phone: 514-398-4959
- Email: lapointe@felix.geog.mcgill.ca
- Website: http://www.geog.mcgill.ca/faculty/lapointe/

Daniel Boisclair

- I worked alongside Daniel during my Masters research for the GEIODE project.
- Professor of Biology at Université de Montréal, Montreal, Quebec.
- Phone: 514-343-6762
- Email: Daniel.Boisclair@umontreal.ca
- Website: http://www.bio.umontreal.ca/profs/Boisclair/

Gary Corbett

- I worked for Gary when I constructed an environment impact assessment within Kejimkujik National Park.
- Works for Parks Canada as a Fish Biologist, Halifax, Nova Scotia.
- Phone: 902-426-3436
- Email: Gary.Corbett@pc.gc.ca