

PENNY PATRICIA WHITE

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EDUCATION

M.Sc., (2008) Resource Management and Environmental Studies Graduate Program (RMES),
Institute for Resources, Environment, and Sustainability (IRES), University of
British Columbia, Vancouver, B.C.

B.Sc., (2004) Department of Biology and Department of Environmental Studies, University of
Victoria, Victoria, B.C. (1st class, Double major)

AWARDS

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| 2007/09-2008/08 | \$17,500 | National Science and Engineering Research Council Canadian Graduate Scholarship (NSERC CGS M) |
| 2007/05 | \$3000 | Best in Show - Photo salon Vancouver Island Juried Art Photography Show |
| 2006/12 | \$1000 | Environment Canada Canadian Youth Representative – Minister’s Round Table on the Species at Risk Act (Gatineau, Quebec) |
| 2006/09-2007/08 | \$775 | University of British Columbia Graduate Entrance Scholarship |
| 2006/03 | \$2,796 | BC Innovation Council Research Exchange to Shikoku, Japan |
| 1992/09-1993/04 | \$2,000 | B.C. Provincial Scholarship |
| 1992/09-1993/04 | \$500 | University of Victoria C.H. Dowling Memorial Award |

SKILLS SUMMARY

My experience is interdisciplinary I have developed skills in research methodologies, technical ability, communication, and the arts. **Research:** Marine ecology field and laboratory methodology, technical and scientific report writing, genetic and molecular techniques, traditional ecological knowledge (TEK) ethnography, univariate and multivariate statistical methods, and aboriginal fisheries project management. **Technical ability:** Small boat operation, invertebrate identification, algal identification, shellfish aquaculture husbandry, including abalone, oyster, mussels, scallops, sea urchins, kelp, and integrated multi-trophic aquaculture, aboriginal fisheries project field techniques. **Communication:** Teaching, technology transfer, youth outreach, First Nation community consultation. **Arts:** Photography, graphic design, website development.

PROFESSIONAL EXPERIENCE

- 2005-2007 - **Contract Biologist, Metlakatla First Nation Fisheries Program** - Project leader of two major projects for a habitat evaluation and a Dungeness crab survey. Work for these projects included proposal writing, literature research, project design, capacity building, field work, data analysis, and completion of the final report. Acted as field biologist for the Kitsumkalum / Metlakatla eulachon (*Thaleichthys Pacifica*) 2005 survey of the Skeena River. Assisted with quarterly and final reporting to DFO. Attended research workshops for shellfish aquaculture, pinto abalone population recovery, and wild salmon population recovery and summarized the meeting in reports.
- 2005-2006 - **Coordinator/Presenter, University of British Columbia Fisheries Department** - Coordinating the UBC Fisheries Department's "Roadshow" program including setting up focus group meetings, developing PowerPoint presentations, website concept development, and giving presentations to groups of aboriginal youth/students/mature audiences.
- 2005 - **Instructor, Malaspina University-College** - Instructor for the Clam Survey: Field Methods and Clam Survey: Data Analysis non-credit courses for the Fisheries and Aquaculture Extension Program (AQUA 550 and AQUA 552). This assignment involved re-writing the PowerPoint presentations, delivery of lectures, giving instruction in the field, and evaluating participant performance.
- 2004-2005 - **Contract Biologist, Penelakut First Nation Seafood Corporation** - Conducted clam surveys including assistance with the project design, field supervisor, sample processing, and data analysis.
- 2003-2005 - **Research Associate, Blue Revolution Consulting Group Inc.** - Set up pilot shellfish aquaculture rafts and provided shellfish monitoring and husbandry training with several North Coast and East Vancouver Island First Nation groups. Prepared shellfish samples to be tested for cadmium content. Completed a shellfish capability study by surveying beaches and deep-water reaches. Conducted international research on the kelp culture and harvest industry. Aged Horse mussels (*Modiolus modiolus*) and completed the data analysis and reporting. Conducted field work and reported for Canadian Environmental Impact Assessments. Completed field work and reported on Manila clam surveys using DFO survey protocols. Website development and graphic design.
- 2002-2003 - **Lab Technician, Bamfield Huu-ay-aht Community Abalone Project** - Conducted a growth experiment of post-settlement abalone (*Haliotis kamtschatkana*) with five food treatments. Environmental monitoring of the rearing tanks, including pH, oxygen saturation, ammonia concentration, water velocity, diatom abundance and diatom species composition. Maintenance of abalone veligers, juveniles, adults and brood stock. Maintenance of the filtering system, including cartridge, bag filters. Initiated spawning of the abalone. Maintenance of algal batch cultures of benthic *Rhodomonas* sp. for abalone shell marking via food content.

Summer 2001 - Fisheries Technician, Kitsoo Fisheries Co-management Program - Salmon stream enumeration - identified and took scale samples from migrating salmon captured in downstream traps for two rivers. Completed the data analysis and summarized the results for that current year and previous years. Cared for and estimated numbers of hatchery reared sockeye salmon fry. Assisted with the mating index determination abundance estimates of four-spotted prawns caught by commercial vessels. Constructed a manila clam predation experiment. Conducted and wrote a report on a presence/absence/abundance of *Porphyra* of the Kitsoo/Xai'xais traditional territory.

VOLUNTEER EXPERIENCE

Currently, I am the treasurer for the Resource Management and Environmental Studies Graduate Student Society, and on Gabriola Island, I contribute photography, graphic arts, and bookkeeping skills to several musicians. During my undergraduate studies at the University of Victoria, I was elected to the University of Victoria Senate, assisted the Environmental Studies Student Association with fundraising and research, helped promote activist events with the International Socialists, canvassed for the Canadian Institute for the Blind, organized events for the creative Women's Collective, recruited members for the Access 2000 task force, and provided photography services to student performers. As a high school student, I volunteered with the recycling club and provided support to persons infected with the HIV virus.

PUBLICATIONS

White, P. 2007. Metlakatla First Nation: Duncan Bay Habitat Survey 2006. Prepared for: The Metlakatla First Nation and the Department of Fisheries and Oceans. 26pp.

White, P. 2005. Metlakatla First Nation Territory Crab (*Cancer magister et al.*) Survey 2005: Duncan Bay, Metlakatla Bay, and Venn Passage. Prepared for: the Metlakatla First Nation and the Department of Fisheries and Oceans. 85pp.

Kingzett, B.C., T. Norgard & P. White. 2004. Tsimshian Shellfish Aquaculture Development Project: 2004 Interim Site Monitoring Report. Prepared for: Ecotrust Canada *on behalf of*: Tsimshian Stewardship Committee. 59pp.

Kingzett, B.C. D. Paltzat, & P. White. 2003. Age determination of Horse Mussels, *Modiolus modiolus* collected during Clover Pt. Outfall Marine Monitoring Program (2002). Prepared for Capital Regional District. 9p+ append.

Norgard, T., B.C. Kingzett & P. White. 2004. Turning Point Initiative Shellfish Aquaculture Development Project: 2004 Interim Site Monitoring Report. Prepared for: Coastal First Nations Turning Point Initiative. 117pp.

White, P., and B.C. Kingzett. 2004. Age determination of Horse Mussels, *Modiolus modiolus* collected during Clover Pt. Outfall Marine Monitoring Program (2003). Prepared for Capital Regional District. 9p+ append.