

Abbreviated Curriculum Vitae

Name: Shannon Atkinson, Ph.D., Professor, Fisheries Division

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Education: Ph.D. Murdoch University, School of Veterinary Studies, 1985

M.Sc. University of Hawaii, Department of Animal Science, 1981

B.Sc. University of Hawaii, Department of Animal Science, 1978

Professional Experience

Professor of Marine Science, University of Alaska Fairbanks 2000 - present

Professor of Marine Science, University of Alaska Fairbanks and Science Director Alaska SeaLife Center 2000-2007

Associate Researcher, Hawaii Institute of Marine Biology, University of Hawaii 1991- 2000

Affiliate Researcher, Hawaii Institute of Marine Biology, University of Hawaii 1989-1991

Experimental Scientist, Commonwealth Scientific and Industrial Research Organization (CSIRO), Division of Animal Production, Western Australia 1986-1988

Administrative Experience (Approximately \$41.3 million 2000-2007)

- ❖ Principal Investigator, Alliance for Coastal Technologies, NOAA funded national partnership to promote technology development. May 2005 \$75,000; May 2006 \$300,000, May 2007 \$122,000; 2008 \$232,000.
- ❖ Principal Investigator, National Marine Fisheries Services grant to conduct research on Cetaceans. October 2007 – present \$775,198
- ❖ Principal Investigator, National Marine Fisheries Service grant to conduct research on Pinnipeds (Steller sea lions, Northern fur seals and harbor seals) Mr. D. Calkins is Program Manager for the Steller sea lions and Northern fur seals. A. Hoover-Miller is Program Manager for harbor seals. Oct 2006 \$4,944,172; Oct 2007 \$5,170,124.
- ❖ Principal Investigator, Fish and Wildlife Service grant to conduct research on sea otters. Dr. James Estes is Program Manager. Jul 2003 \$685,515; Jul 2004 \$817,797; Jul 2005 \$663,000, Oct 2006 \$585,489
- ❖ Principal Investigator, Fish and Wildlife Service grant to conduct research on Spectacled and Steller's Eiders. Dr. T. Hollmen is Program Manager. Apr 2001. \$550,212; Aug 2002 \$736,000; Jul 2003 \$872,495, Jul 2004 \$818,000, Jul 2005 \$878,000, Oct 2006 \$904,107
- ❖ Principal Investigator, National Marine Fisheries Service grant to conduct research on harbor seals. Ms. A. Hoover-Miller is Program Manager. June 2002; \$439,000; Jul 2003; \$310,822, Oct 2004 \$917,558; Oct 2005 \$974,006
- ❖ Principal Investigator, National Marine Fisheries Service grant to conduct research on Steller sea lions. Mr. D. Calkins is Program Manager. May 2001; \$5,987,000; Jul 2002. \$4,987,000; Jul 2003 \$4,637,588, Jul 2004 \$5,431,150; Aug 2005 \$5,770,893
- ❖ Principal Investigator, National Marine Fisheries Service grant for Steller sea lion research. Oct 2000-Dec 2001 \$900,000
- ❖ Acting Project Manager, National Fish and Wildlife Foundation grant to conduct research on Steller sea lions. Feb-Dec 2000 \$650,000

Teaching Experience

25 MS and PhD students whose committees I have or am currently chairing

26 MS and PhD students whose committees I am a member

11 undergraduate students who have done directed research

6 students to whom I have served as a mentor (3 veterinary students and 1 foreign veterinarian)

Awards

1. U.S. Dept of Commerce, NOAA. Marine Environmental Stewardship Award for Marine Debris Removal Project, Northwestern Hawaiian Archipelago. 1998.
2. Vice President Al Gore's National Performance Review- Silver Hammer Award for Marine Debris Removal Project, Northwestern Hawaiian Archipelago. 1999.

3. Sigma Xi the Scientific Research Society devoted to the promotion of Research Science, duly elected a member by the Alaska Chapter of the Society. 2003.

Publications

80 Peer-reviewed publications in international journals

12 Book Chapters and Editorships

125 Conference abstracts

Sample Publications

1. **Atkinson, S**, Becker, BL, Johanos, TC, Pietraszek, JR and Kuhn, BCS (1994) Reproductive morphology and status of female Hawaiian monk seals (*Monachus schuainslandi*) fatally injured by male seals. J. Reprod. Fert. 100:225-230.
2. **Atkinson, S** (1997) Reproductive biology of seals. Reviews of Reproduction. 2:175-194.
3. **Atkinson, S**, Ragen, TJ, Gilmartin, WG, Becker, BL and Johanos, TC (1998) Use of a GnRH agonist to suppress testosterone in wild Hawaiian monk seals (*Monachus schuainslandi*). Gen. Comp. Endo. 112:178-182.
4. Palmer, J, **Atkinson, S**, Yoshida, WY, Stalcup, AM and Landers, JP (1998) Charged chelate-capillary electrophoresis of endogenous corticosteroids. Electrophoresis 19:3045-3051.
5. Crow, GL, Atkinson, MJ, Ron, B, **Atkinson, S**, Skillman, DK, and Wong, GTF (1998) Relationship of water chemistry to serum thyroid hormones in captive sharks with goitres. Aqua. Chem. 4:469-480.
6. **Atkinson, S**, Atkinson, MJ, and Tarrant, AM (2003) Estrogens from sewage in coastal marine environments. Envir. Health Persp. 111 (4):531-535.
7. Oki, C and **Atkinson, S** (2004) Diurnal patterns of cortisol and thyroid hormones in the harbor seal (*Phoca vitulina*) during summer and winter seasons. Gen. Comp. Endo. 136:289-297.
8. Tarrant AM., Atkinson MJ., **Atkinson, S** (2004) Effects of steroidal estrogens on coral growth and reproduction. Mar. Eco. Prog. Ser. 269:121-129.
9. Mashburn, KM and **Atkinson, S** (2004) Evaluation of adrenal function in serum and feces of Steller sea lions (*Eumetopias jubatus*): influences of molt, gender, sample storage, and age on glucocorticoid metabolism. Gen. Comp. Endo. 136:371-381.
10. Myers, M.J., Rea, LD, and **Atkinson, S** (2006) The effects of age, season and geographic region on thyroid hormones in Steller sea lions (*Eumetopias jubatus*) Comp. Biochem. Physiol. Part A 145: 90-98.
11. Greig, DJ., Mashburn, KL., Rutishauser, M., Gulland, FMD., Williams, TM., and **Atkinson, S**. (2007) Seasonal changes in circulating progesterone and estrogen concentrations in the California sea lion (*Zalophus californianus*) J. Mammal. 88(1):67-72.
12. Wang, D., **Atkinson, S**., Hoover-Miller, A., Li, Q. X. (2007) Polychlorinated naphthalenes and coplanar polychlorinated biphenyls in tissues of harbor seals (*Phoca vitulina*) from the northern Gulf of Alaska. Chemosp. 67:2044-2057.
13. Mashburn, K., and **Atkinson, S**. (2007) Seasonal and predator influences on adrenal function in adult Steller sea lions: Gender matters. Gen. Comp. Endoc. 150:246-252.
14. Mashburn, K.L., and **Atkinson, S**. (2007). Variability in leptin and adrenal response in juvenile Steller sea lions (*Eumetopias jubatus*) to adrenocorticotrophic hormone (ACTH) in different seasons. Gen. Comp. Endo. Doi:10.1016/j.ygcen.2007.05.030.
15. **Atkinson, S**., Calkins, D., Burkanov, V., Castellini, M., Hennen, D., Inglis, S. (2008) Impact of changing diet regimes on Steller sea lion body condition. Mar. Mamm. Sci. 24(2): 276-289
16. **Atkinson, S**., DeMaster, D.P., Calkins, D.G. (2008) Anthropogenic causes of the Steller sea lion decline and their threat to recovery. Mammal Rev. 38(1): 1-18.
17. Myers, M.J., Ylitalo, G.M., Krahn, M.M., Boyd, D., Calkins, D., Burkanov, V., **Atkinson, S**. (2008) Organochlorine contaminants in endangered Steller sea lion pups (*Eumetopias jubatus*) from Western Alaska and the Russian far east. Sci. Tot. Env. 396: 60-69