

**CURRICULUM VITAE  
OF  
DAVID ALAN CLOSE**

**EDUCATION AND TRAINING**

**Ph.D.** Fisheries Science, Michigan State University, 2007.

**M.Sc.** Fisheries Science, Oregon State University, 2001.

**B.Sc.** Fishery Resources, University of Idaho, 1994.

**A.A.** Liberal Arts, Blue Mountain Community College, 1991.

**TITLE OF DISSERTATION AND NAME OF SUPERVISOR**

“Characterization of an ancestral glucocorticoid hormone and its cognate receptor in the sea lamprey.”

Supervisor: Dr. Weiming Li

**PROFESSIONAL EXPERIENCE**

**Assistant Professor** Distinguished Science Professor of Aboriginal Fisheries, Aboriginal Fisheries Research Unit, Fisheries Centre, University of British Columbia, March 2008.

**Fisheries Research Scientist**, Pacific Lamprey Research and Restoration Project, Freshwater Mussel Project, Confederated Tribes of the Umatilla Indian Reservation, Department of Natural Resources, Tribal Fisheries Program, September 2003 to 2008.

**Graduate Research Assistant**, Michigan State University, Department of Fish and Wildlife, September 2003 to 2007.

**Fisheries Biologist III**, Confederated Tribes of the Umatilla Indian Reservation, Department of Natural Resources, Tribal Fisheries Program, 1998 to September 2003.

**Graduate Research Assistant**, Oregon State University, Department of Fisheries and Wildlife, Oregon Cooperative Fishery Research Unit, September 1994 to May 1998.

**Fisheries Biologist**, US Geological Survey/Biological Resources Division, Columbia River Research Laboratory, June-September 1994.

## **LEADERSHIP EXPERIENCE**

**Aboriginal Fisheries Research Unit Leader**, Fisheries Centre, University of British Columbia.

2008            Aboriginal Fisheries Research Unit.

**Project Leader**, Confederated Tribes of the Umatilla Indian Reservation.

1998-2003      Pacific Lamprey Research and Restoration Project.

2002            Freshwater Mussel Project.

**Team Leader**, Columbia River Basin Pacific Lamprey Technical Workgroup.

1999-2002      Workgroup included tribal, state, and federal fisheries agencies.

**Leader**, led efforts to establish projects for the Confederated Tribes of the Umatilla Indian Reservation's interest in restoring subsistence foods such as Pacific lamprey and freshwater mussels in the Columbia River Basin.

## **AWARDS AND HONORS**

**National Institute of Health (NIH)**, 2007 Training Fellowship, Neuroscience Program, Michigan State University.

**Protectors of the Earth**, 2005 Certificate of Appreciation for "valuable contribution to the 5<sup>th</sup> Annual Protectors of the Earth Camp at Sugar Island, Sault Ste. Marie Tribe of Chippewa Indians."

**Michigan State University**, 2005 Undergraduate Researchers in Plant Sciences Mentor Award for "providing outstanding service as a mentor."

**Protectors of the Earth**, 2004 Certificate of Appreciation for "valuable contribution to the 4<sup>th</sup> Annual Protectors of the Earth Camp at Sugar Island, Sault Ste. Marie tribe of Chippewa Indians."

**Native American Fish and Wildlife Society**, 2004 Chief Sealath Award (National Award) for "outstanding contributions toward the preservation, protection, and prudent conservation of this nation's vital fish and wildlife resources."

**Michigan State University**, 2003-2006 Diversity and Pluralism Fellowship, College of Agriculture and Natural Resources.

**American Indian Science and Engineering Society**, Second place for best scientific oral presentation at 1997 National Conference, Houston, Texas.

University of Idaho, 1994 Student Support Services Personal and Outstanding Academic Achievement Honor.

**GRANTS RECEIVED (Total \$5,416,000)**

**Principal Investigator**, Bonneville Power Administration, Pacific Lamprey Research and Restoration Project.

2007	\$395,000 for one year.
2006	\$501,000 for one year.
2005	\$501,582 for one year.
2002-2004	\$1,454,381 for three years.
1999-2001	\$1,154,547 for three years.
1995	\$17,490 for one year.

**Co-Principal Investigator**, Bonneville Power Administration, Characterize Genetic Differences and Distribution of Freshwater Mussels.

2007	\$233,000 for one year.
2006	\$237,000 for one year.
2005	\$237,000 for one year.
2002-2004	\$685,000 for three years.

**PEER-REVIEWED PUBLICATIONS**

**Close, D.A.**, S-S. Yun, A. Wildbill, and W. Li. *in prep.* “Migratory and sex pheromones in Pacific lamprey.” For submission to *Steroids*.

**Close, D.A.**, S-S. Yun and W. Li. *in prep.* “Characterization of an ancestral glucocorticoid hormone and its cognate receptor.” For submission to *Proceedings of the National Academy of Sciences*.

**Close, D.A.**, A.D. Jackson, K.P. Currens, A.J. Wildbill, J.T. Hanson, J.P. Bronson, and K. Aronsuu. *in review.* “Reintroduction of Pacific lamprey in the upper Umatilla River.” in L.R. Brown, editor. *Biology, management and conservation of lampreys in North America*. American Fisheries Society, Bethesda, Maryland.

Lin B., Y. Wang, Z. Zhang, K. Currens, A. Spidle, Y. Yamazaki, and **D.A. Close**. *in press.* “AFLP Assessment of Genetic Diversity of Pacific Lamprey.” *North American Journal of Fisheries Management*.

Brim Box, J., J. Howard, D. Wolf, C. O’Brien, D. Nez and **D.A. Close**. (2006). “Freshwater mussels (Bivalvia: Unionoida) of the Umatilla and Middle Fork John Day rivers in eastern Oregon.” *Northwest Science* 80(2):95-107.

Bryan, M.B., B.A. Young, **D.A. Close**, J. Semeyn, T.C. Robinson, J. Bayer, and W. Li. (2006). “Comparison of synthesis of 15 $\alpha$ -hydroxylated steroids in males of four

- North American lamprey species.” *General and Comparative Endocrinology* 149: 149-156.
- Close, D.A.**, A.D. Jackson, B.P. Conner, and H.W. Li. (2004). “Traditional Ecological Knowledge of Pacific lamprey (*Entosphenus tridentatus*) in Northeastern Oregon and Southeastern Washington from Indigenous Peoples of the Confederated Tribes of the Umatilla Indian Reservation.” *Journal of Northwest Anthropology* 38(2):141-162.
- Torgersen, C.E., and **D.A. Close**. (2004). “Influence of Habitat Heterogeneity on the Distribution of Larval Pacific Lamprey (*Lampetra tridentata*) at two spatial scales.” *Freshwater Biology* 49: 614-630.
- Close, D.A.**, M.S. Fitzpatrick, C.M. Lorion, H.W. Li, C.B. Schreck. (2003) “Effects of Intraperitoneally Implanted Radio Transmitters on the Swimming Performance and Physiology of Pacific Lamprey.” *North American Journal of Fisheries Management* 23:1184-1192.
- Moser, M.L., and **D.A. Close**. (2003). “Assessing Pacific Lamprey Status in the Columbia River Basin.” *Northwest Science* 77(2):116-125.
- Yun, S.S., A.P. Scott, J.M. Bayer, J.G. Seelye, **D.A. Close**, and W. Li. (2003). “HPLC and ELISA analyses of larval bile acids from Pacific and western brook lampreys.” *Steroids* 68: 515-523.
- Close, D.A.**, M.S. Fitzpatrick, and H.W. Li. (2002) “The Ecological and Cultural Importance of a Species at Risk of Extinction, Pacific Lamprey.” *Fisheries* 27(7):19-25.

## **PROFESSIONAL CONFERENCE PRESENTATIONS**

- “First Nations, First Foods: In the classroom,” presented at the 2007 National Conference of American Indian Science and Engineering Society in Phoenix, Arizona.
- “Contaminants in lamprey from the Columbia River Basin: What is the risk to Native American Health?” presented at the 2007 Annual Meeting of the American Fisheries Society in San Francisco, California.
- “Reintroduction of Pacific lamprey in the upper Umatilla River in Northeast Oregon,” presented at the 2007 Annual Meeting of the American Fisheries Society in San Francisco, California.
- “First Nations, First Foods: Implications for Sovereignty,” presented at the 2007 Earth Day Conference at the Center for the Study of Indigenous Border Issues, Michigan State University, East Lansing, Michigan.

- “The cultural and ecological importance of lamprey to tribal peoples,” presented at the 2006 Annual Great Lakes Regional Conference of the Native American Fish & Wildlife Society in Manistee, Michigan.
- “Native Freshwater Mussels: A reserved treaty resource,” presented at the 2006 Annual Great Lakes Regional Conference of the Native American Fish & Wildlife Society in Manistee, Michigan.
- “Reintroduction of Pacific lamprey in the Umatilla River, Oregon: A case study,” presented at the 2004 Lamprey Technical Workshop in Vancouver, Washington.
- “Reintroduction of Pacific lamprey in the Umatilla River, Oregon: A case study,” presented at the 2003 Annual Conference of the Oregon Chapter American Fisheries Society in Eugene, Oregon.
- “Ecological and Cultural Importance of Pacific Lampreys,” presented at the 2001 Annual Conference of the Oregon Chapter American Fisheries Society in Portland, Oregon.
- “Effects of Acute Stress on the Physiology of Pacific Lampreys,” presented at the 2001 Annual Conference of the Oregon Chapter American Fisheries Society in Portland, Oregon.
- “Effects of Intraperitoneally Implanted Radio Transmitters on the Swimming Performance and Physiology of Pacific Lampreys,” presented at the 2001 Annual Conference of the Oregon Chapter American Fisheries Society in Portland, Oregon.
- “Pacific Lamprey Technical Workgroup Regional Planning,” presented in 2000 to the Northwest Power Planning Council, Portland, Oregon.
- “Stress Physiology and Swimming Performance of Radio-tagged Pacific Lamprey (*Lampetra tridentata*),” presented at the 1997 National Conference of American Indian Science and Engineering Society in Houston, Texas.
- “Status and Biology of Pacific Lampreys in the Columbia River Basin,” presented at the 1996 Pacific Region Conference Native American Fish and Wildlife Society in Pendleton, Oregon.
- “Status of Pacific Lamprey in the Columbia River Basin,” presented in 1995 to the Northwest Power Planning Council, Portland, Oregon.

#### **ADVISORY AND TECHNICAL ASSISTANCE**

Journal of Fish Biology – manuscript reviewer.

Great Lakes Fishery Trust – research proposal reviewer.

Great Lakes Fishery Commission – research proposal reviewer.

Northwest Power Planning and Conservation Council- Columbia River

Basin Pacific Lamprey Technical Workgroup-prioritized research needs.

## **TEACHING RESPONSIBILITIES**

**Guest Lecturer** for Native American Studies IAH 211C, Ecological Perspectives of Native Americans, Michigan State University 2007. “First Nations First Foods.”

**Guest Lecturer** for Native American Studies 303, Ecological Perspectives of Native Americans, Michigan State University 2007. “First Nations First Foods.”

**Guest Lecturer** for Fish & Wildlife 473, Environmental Fish Physiology, Michigan State University 2007. “Endocrinology of Stress.”

**Guest Lecturer** for Fish & Wildlife 205, Principles of Fish and Wildlife Mgt., Michigan State University 2007. “Native American Perspectives in Fish and Wildlife and Treaty Reserved Fishing Rights.”

**Mentored** and taught laboratory techniques to Native American student from the Umatilla Indian Reservation at Michigan State University’s Department of Fish and Wildlife from May 2006 to present.

**Guest Lecturer** for the Department of Fish & Wildlife Seminar, Michigan State University 2006. “Native American Perspectives on Fish and Wildlife Conservation/Management.”

**Guest Lecturer** for Fish & Wildlife 205, Principles of Fish and Wildlife Mgt., Michigan State University 2006. “Native American Perspectives in Fish and Wildlife and Treaty Reserved Fishing Rights.”

**Guest lecturer** for Plant Biology 499, Michigan State University 2004. “Is there a connection between traditional ecological knowledge, western science, religion and myth?”

**Guest lecturer** for Plant Biology 499, Michigan State University 2004. “Ethno biology and the importance of Traditional Ecological Knowledge.”

**Mentored** and taught fisheries techniques to Native American fisheries technicians and students from 1998 through 2003, Tribal Fisheries Program, Department of Natural Resources, Confederated Tribes of the Umatilla Indian Reservation.

**Mentored** and taught laboratory techniques to Native American students from the Umatilla Indian Reservation and Warm Springs Reservation at Oregon State University's Department of Fish and Wildlife during summer of 1997.

## **SERVICE**

2006-2007 Graduate Student Representative for the Fish and Wildlife Graduate Committee, Department of Fish and Wildlife, Michigan State University.

## **PROFESSIONAL SOCIETIES**

Native American Fish and Wildlife Society

American Fisheries Society

American Indian Science and Engineering Society, Sequoyah Fellow

## **REFERENCES**

Dr. Weiming Li  
Associate Professor  
Michigan State University  
13 Natural Resources  
East Lansing, Michigan 48824-1222  
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