

EXHIBIT 1

BIOGRAPHICAL SKETCH

NAME: Charlie E. Smith

TITLE: Pathologist & Aquaculture Specialist

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EDUCATION:

B.A. Biology, Walla Walla College. 1960.

Graduate studies Montana State University, 1968-1974. Bacteriology, biochemistry, cell ultrastructure, microbiology, pathology, immunology, immunopathology, physiology,

POSITIONS HELD:

Pathologist & Aquaculture Specialist, Independent Consultant, July, 2002 to present

Pathologist & Aquaculture Specialist, Rangen, Inc., Buhl, ID July, 1993 to July, 2002

Director, U.S. Fish & Wildlife Service, Bozeman, Montana
Fish Technology Center (FTC), 1985 to July, 1993.

Adjunct Professor Veterinary Science, Montana State University, 1981-2009

Assistant Director, U.S. Fish & Wildlife Service. Bozeman FTC, 1976-1985.

Fishery Biologist, U.S. Fish & Wildlife Service, Bozeman FTC, 1968-1976.

Fishery Research Biologist, U.S. Fish & Wildlife Service, Western Fish Nutrition Lab, Cook, WA, 1961-1968.

AWARDS:

Recipient of the Clark & Mimi White Distinguished Service Award in Recognition of Distinguished lifetime service to the United States Trout Farmers Association and the U.S. Industry, September, 2011.

Recipient of the Northwest Fish Culture Hall of Fame Award, December, 2005.

Recipient of the Outstanding Contribution to the Protection and Enhancement of Fisheries Resources in Montana Award by the Montana Chapter of the American Fisheries Society, February, 1994.

Recipient of American Fisheries Society/Fish Health Section, S.F. Snieszko Distinguished Service Award. July, 1993.

Recipient of American Fisheries Society/Fish Culture Section Hall of Fame Award, 1993.

Recipient of U.S. Fish & Wildlife Service, Region 6 Special Recognition Award, June, 1993.

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES:

American Fisheries Society (AFS), Fish Culture Section, AFS; Fish Health Section, AFS & History Section, AFS

Certified Fish Pathologist, Fish Health Section , AFS (1985-2005).

President, Fish Health Section/AFS, 1990-91

Past Associate Editor, AFS, J. Aquatic Animal Health; also,
The Progressive Fish Culturist

WESTERN REGIONAL AQUACULTURE CENTER:

Past Member, Research Technical Committee, WRAC

Served as Technical Advisor, Broodstock Nutrition Research Project.

SELECTED PUBLICATIONS:

See Exhibit 1.

ADDITIONAL EXPERIENCE:

I was an instructor for the US Fish & Wildlife's National Conservation Training Center (NCTC), Shepherdstown, WV, having taught courses for several years. I was also an instructor for the Coldwater Fish Culture Course (CWFCC) having taught the Fish Hatchery Management sections of the course in 2005, through 2008. In the past I

taught the Hatchery Carrying Capacity, Broodstock Management, and the Fish Disease portions of the Cold Water Fish Culture course. I have also taught Water Quality section of the CWFCC and occasionally Water Treatment Systems. I am also a past an instructor for the NCTC Fish Histopathology course when it was offered (approximately every other year). I also helped teach certain sections of the Fish Disease Course offered by the Bozeman Fish Health Laboratory in the spring of 2005 and 2007.

In the past I was under contract with the USFWS Aquatic Animal Drug Approval Program doing histopathological examinations of tissues primarily from fish exposed to drugs/chemicals during Target Animal Safety Studies; also, with the U.S. Department of Agriculture's Agriculture Research Service doing histopathological examinations of tissues of fish fed various experimental feeds.

I have worked under contract with engineering firms on hatchery design projects. I continue to provide diagnostic histopathology services to the state fish disease lab in Colorado, USFWS's, Bozeman, Montana Fish Health Center & Idaho Fish Health Center on an as needed basis.