School of Fisheries and Ocean Sciences

Degree Candidates
Denis Wiesenburg, Dean

BACCALAUREATE

Lisa Dawn Linnell**
B.S., Fisheries

Andrew John Padilla
B.S., Fisheries

MASTER'S

Mikhail Blikshteyn**
M.S., Fisheries. B.S., State University of New York, 2000

Elizabeth Lynn Calvert*
M.S., Fisheries. B.S., University of New Hampshire, 2000

Catherine Coon
M.S., Fisheries. B.S., University of Arizona, 1991

Casey J. Debenham**
M.S., Marine Biology. B.S., Long Island University (New York), 2000

Carrie Lynn Hoover**
M.S., Fisheries. B.S., Long Island University (New York), 1999

Janet L. Neilson
M.S., Marine Biology. B.S., Cornell University (New York), 1993

Jenny Neyme*
M.S., Fisheries. B.S., Utah State University, 2000

Julie Kristine Nielsen**
M.S., Fisheries. Phi Kappa Phi Honor Society. B.A., Oregon State University, 1992; B.S., University of Alaska Southeast, 2000

John O'Brien
M.S., Fisheries. B.S., Northern Arizona University, 1995
DOCTORAL

Arny L. Blanchard  
Ph.D.  Marine Biology  
B.S., University of Alaska Fairbanks, 1989; M.S., University of Alaska Fairbanks, 1999  

Thesis: Retrospective Analysis of Marine Biological Data from Port Valdez, Alaska: A Case Study in Long-term Monitoring  
Hypotheses arising from long-term studies of marine biological communities are evaluated and refined through retrospective analyses. Drivers of change identified are the 1964 earthquake and the oil transportation and salmon aquaculture industries. This dissertation should increase the accuracy of ecological models and aid in the management of marine resources.  

Major Professors: Dr. Howard Feder and Dr. Susan Hills
**Amy Childers**  
*Ph.D. Oceanography*  
*B.A., Iowa State University, 1998; M.S., University of Alaska Fairbanks, 2001*

Nutrient distributions in the Gulf of Alaska and Prince William Sound were examined in an effort to understand the mechanisms underlying the region’s high biological productivity. An average annual cycle of nutrient drawdown and replenishment was established amongst a large degree of interannual and spatial (cross-shelf and along-shelf) variability.  
**Major Professor: Dr. Terry E. Whitledge**

**Sang Heon Lee**  
*Ph.D. Oceanography*  
*B.S., Pusan National University (Korea), 1996; M.S., University of Alaska Fairbanks, 2000*

**Thesis: Current Primary Production Rates of the Western Arctic Ocean Estimated by Stable Carbon and Nitrogen Isotope Tracers**  
I investigated any change in the primary production rates between current and previous studies and provided the groundwork for the future monitoring of ecosystem response to climate change in the different regions, such as the deep Canada Basin, Barrow, Alaska, and Bering Strait/Chukchi Sea, of the western Arctic Ocean.  
**Major Professor: Dr. Terry E. Whitledge**

**John J. Piccolo**  
*Ph.D. Fisheries*  

**Thesis: The Influence of Water Velocity and Depth on Prey Detection and Capture by Juvenile Coho Salmon and Steelhead: Implications for Habitat Selection and Segregation**  
I found little difference between coho salmon and steelhead in foraging responses to water velocity and depth. For both species, faster water decreased prey capture probability, and deeper water increased capture rate. I propose that habitat selection and segregation is based on fish size and differences in growth requirements.  
**Major Professor: Dr. Nicholas F. Hughes**