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Reid Sinclair Brewer *

Ph.D. Marine Biology

B.S., United States Military Academy, 1995; M.S., University of Alaska Fairbanks, 2003.

esis: Population Biology and Ecology of the North Paci c Giant Octopus in the Eastern Bering Sea

ough the North Paci c giant octopus represents a signi cant incidental catch in Alaska, little is known about its ecology, and therefore management is also limited. A three-year mark-recapture study was performed to estimate growth, movement, reproduction, abundance and survival to guide future management of this data-poor species.

Major Professor: Dr. Brenda Norcross

Catherine Patricia Chambers *

Ph.D. Fisheries

omas Farrugia***

Ph.D. Fisheries

B.S., McGill University, 2005; M.S., California State University, 2009.

Charlotte Marie Regula-White eld **
Ph.D. Marine Biology

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Celso Rodrigo Alvizuri **

Ph.D. Geophysics

B.S., University of California, Santa Barbara, 2005; M.S., University of California, Santa Barbara, 2010.

esis: Estimation of Full Moment Tensors, Including Uncertainties, for Earthquakes, Volcanic Events, and Nuclear Explosions

An algorithm to estimate seismic sources with their uncertainties was developed and applied to seismograms from seismic events at a volcano in Bolivia, earthquakes in Alaska, mine collapses in the western U.S., and nuclear explosions at a test site in Nevada.

Major Professor: Dr. Carl Tape

Amanda Jo Barker **

Ph.D. Environmental Chemistry

B.A., West Virginia University, 2009; M.A., University of Alaska Fairbanks, 2009.

esis: Speciation, Transport and Mobility of Metals in Pristine Watersheds and Contaminated Soil Systems in Alaska

Arctic surface water metal concentrations were highest in late fall, which.1(t)-30.5kteae

* Summer degree recipient
** Fall degree recipient

Abraham Endalamaw***

Ph.D. Atmospheric Sciences

B.S., Arba Minch University, 2005; M.P.S., Cornell University, 2009.

esis: Improved Mesoscale Hydrological Modeling of the Interior Alaska Boreal Forest Ecosystem

is research addressed the limitations of modeling hydrological processes in Interior Alaska boreal forest catchments by simulating small-scale processes to regional-scale catchments via development of a small-scale landscape model. By developing a coupled climate-vegetation-permafrost-hydrology model, this study also quanti ed the impact of future climate on hydrological processes.

Major Professors: Dr. William Bolton and Dr. Jessica Young-Robertson

Simon Vincent Pierre Filhol *

Ph.D. Geophysics

M.E., University of Grenoble, 2010.

esis: From a Snow ake to the Snow Cover: Processes that Shape Polar and Taiga Snowpacks

Polar snow shaped by wind and taiga snow settling throughout the winter in calm conditions are the most widespread types of snow, which covers 11% of Earth. Linking processes occurring at the grain scale to the macro scale provided new insights into the formation of snow cover.

Major Professors: Dr. Matthew Sturm and Dr. Martin Tru er

Victoriya Valerievna Forsythe

Ph.D. Space Physics

Christian Kienholz **

Kelly Marie McFarlin

Ph.D. Biological Sciences

B.S., Michigan Technological University, 2004; B.S., Michigan Technological University, 2004; M.S., University of Alaska Fairbanks, 2010.

esis: e Biodegradation of Oil and the Dispersant Corexit 9500 in Arctic Seawater

e risk of oil spills in the Arctic Ocean is increasing in parallel with shipping tra c and oil exploration. Microorganisms indigenous to Arctic seawater were found to biodegrade crude oil and the chemical dispersant Corexit 9500, with some oil-degrading microbes and genes being similar to those in temperate marine environments.

Major Professors: Dr. Mary Beth Leigh and Dr. Robert Perkins

James A. McKee *

Carol Gering***
Ph.D. Online Education and Psychology: Interdisciplinary Program

Melissa Marie Hill

Ph.D. Education and Communication: Interdisciplinary Program

A.A., Spokane Community College, 1996; B.A., Eastern Washington University, 1999; M.Ed., University of Alaska Anchorage, 2008.

esis: Schools in Rural Alaska with Higher Rates of Student Achievement: A Search for Positive Deviance in Education

is study sought to identify schools in rural Alaska with higher rates of student achievement and study what factors contribute to that success. Using an advocacy worldview, the study concludes that schools in rural Alaska may never perform as a collective as well as or better than their urban counterparts.

Major Professor: Dr. Gary Jacobsen

Alice Pips Danielson Veazey

Ph.D. Science of Team Science: Interdisciplinary Program

B.A., University of Hartford, 1983; B.A., Bates College, 1987; M.S., University of Alaska Fairbanks, 1994.

esis: Management of Large Interdisciplinary Team Science Projects: A Multi-Methods Approach to Examining Competencies

A mixed-methods investigation used group concept mapping revealed ve major competencies cr(c) /Sp-23.5(s i)c3(r)-8.3(g)4.2220.32E.7(p)-y3(d g)-P38.9pan <</Lcom/S

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Dr. Mark Herrmann, Dean

Cameron D. Carlson

Ph.D. Security and Disaster Management : Interdisciplinary Program

A.S., Brookdale Community College, 1984; B.S., Monmouth College, 1986; M.A., Weber University, 1995.

esis: Homeland Security and Emergency Management Education: An Investigation Into Workforce Needs

is study investigates the workforce needs of an integrated homeland security and emergency management education. In a post-9/11 environment, public safety and security challenges have become increasingly frequent and complex. Practitioners de ned the basis for the core educational needs of an integrated and interdisciplinary program at the baccalaureate level.

Major Professors: Dr. Kevin Berry and Dr. O. Shawn Cupp

S N R E

Dr. David W. Valentine, Director of Academic Programs

Miho Morimoto *

Ph.D. Natural Resources and Sustainability

B.S., Hokkaido University, 2009; M.S., Hokkaido University, 2011.

esis: Past, Current, and Future Forest Harvest and Regeneration Manaku. a.S.1rlc02

* Summer degree recipient
** Fall degree recipient
*** Summer 2017 candidate