# College of Science, Engineering and Mathemat

# **Degree Candidates**

David M. Woodall, Dean

Bachelor's Degrees:		
Nicole LaVon Aaron	B.S.	Biological S
Victoria Dawn Ables	B.S.	Biological S
Student Ambassador		
Amanda Sue Allen	B.A	Biological S
Michael Damon Anderson cum laude	B.S.	Biological S
Danielle L. Arnold cum laude	B.S.	Chemistry -
Golden Key Honor Society Biology		•
Dave Matthew Arvey	B.S.	Civil Engin
Aaron Burns Athanas	B.S.	Mechanical
Jennifer Leigh Austin	B.S.	Biological S
Golden Key Honor Society		_
Kimberly Ann Austin cum laude	B.S.	Biological S
Augustino Joseph Bacher	B.S.	Mechanical
Joshua J. Bacon	B.S.	Biological S
Jeremy Nathaniel Bahr	B.S.	Biological S
Jay A. Baxter	B.S.	Civil Engin
Sean P. Bemis Honors Program	B.S.	Geology
Torsten William Bentzen	B.S.	Wildlife Bi
Brandy L. Berkbigler	B.S.	Biological S
Jasper N. Blair	B.S.	Civil Engin
Christian James Blankenship cum laude	B.S.	Biological S
Golden Key Honor Society		
Claus Michael Bock	B.S.	Civil Engin
Patrick Borden	B.A	Earth Scien
Christopher Stephen Botulinski	B.S	Electrical E
Deanna L. Bradley	B.S.	Biological S
Donald Allan Bradshaw	B.S.	Electrical E
Anna Laura Bryan	B.S.	Biological S
Sarah Lynn Bundtzen <i>cum laude</i>	B.S.	Biological S
Robert Busey	B.S.	Mechanical
Helena Byard	B.S.	Civil Engin
Lisa Marie Chamberlain	B.S.	Civil Engin
Robert Edward Chambers	B.S.	Civil Engin
Bradley C. Comstock	B.S.	Wildlife Bi
Ryan M. Corrick cum laude	B.S.	Chemistry -
Golden Key Honor Society Biology		Biology

M D I D II	General Sci
Marcus Rodney Delk B.S.	General Sci
Travis A. Dennison B.S.	Mechanical
Patrick Joseph Denny B.S.	Computer S
George P. Dodge IV B.S.	Mechanical
Thomas Eugene Duncan B.S.	Mechanical
Brian Englund B.S.	Chemistry
Jeffrey Farmer B.S.	Biological S
David Kengi Fischer B.S.	Civil Engin
Justin Michael Freeman B.S.	Computer S
Carrie Beth Given <i>Honors Program</i> B.S.	Biological S
Kyonn R. Gowans B.S.	Mathematic
Zachary D. Grauvogel <i>Honors Program</i> B.S.	Biological S
Kristina Mae Greimann B.S.	Biological S
G. Sterling Gress B.S.	Electrical E
Nancy Hadrick B.S.	Biological S
John Wesley Harding B.S.	Geology
Laurel Harduar B.S.	Biological S
Katherine Harris <i>cum laude</i> B.S.	Biological S
Phi Kappa Phi Honor Society	_
Chassidy L. Heard-Young B.S.	Chemistry -
-	Biology
Myron Chadwick Hosier <i>cum laude</i> B.S.	Civil Engin
Yoshinori Irie B.S.	Biological S
Joy Ison B.S.	Chemistry -
•	Biology
Stephanie R. Jez B.S.	Biological S
Christopher M. Johns <i>cum laude</i> B.S.	Biological S
Carrie A. Jones <i>cum laude</i> B.S.	Biological S
Erin Jones B.S.	Geology
Steven Robert Kaleta B.S.	Electrical E
Amy Kernan B.S.	Biological S
Zenith A. Kleine B.S.	Chemistry -
	Biology
Kathryn B. Knorr B.S.	Civil Engin
Andrew L. Krohn B.S.	Chemistry -
	Biology
Shawna R. Laderach B.S.	Civil Engin
Bryce Lake <i>cum laude Golden Key Honor</i> B.S.	Wildlife Bi
Society, Student Ambassador	
Jason B. Lamoreaux <i>magna cum laude</i> B.S.	Civil Engin
Varden D. LaPan B.S.	Computer S
Kristian Larson B.S.	Wildlife Bi
Aram Nathaniel Lecis B.S.	Biological S
Andrew C. Lee B.S.	Computer S

Student Leadership Honors

Susan R. Lieb	B.S.	Electrical E
Alonzo N. Lyford	B.S.	Mechanical
Domini R. Lyman magna cum laude	B.S.	Electrical E
John B. MacCormack	B.S.	Geology
James Michael Maley	B.S.	Biological S
Caroline S. Maniaci	B.S.	Civil Engin
Kelly Ann Mansfield	B.S.	Biological S
Serena M. Markey magna cum laude	B.S.	Civil Engin
Laurie Anne Martin	B.S.	Chemistry
Michael S. McCarty	B.S.	Civil Engin
Dusty L. McDonald	B.S.	Wildlife Bi
Samantha J. McNearney	B.S.	Biological S
Stephen Craig Meurer	B.S.	Mechanical
Darin Ken Moberg cum laude	B.S.	Civil Engin
Simone Montayne	B.S.	Geology
Jason Christopher Myrmoe magna cum laude	B.S.	Biological S
Kenneth F. Nelson, Jr.	B.S.	_
Sheila M. Newman	B.S.	Biological S
magna cum laude, Golden Key Honor Society		C
Sheila M. Newman	B.S.	Wildlife Bi
magna cum laude, Golden Key Honor Society		
Hiroaki Niino	B.S.	Biological S
Ronald E. Owens	B.S.	Mathematic
Rachel Pachter cum laude	B.S.	Geology
Nicholas T. Palso, Honors Program	B.S.	Wildlife Bi
Nathan John Pamperin magna cum laude	B.S.	Wildlife Bi
Daniel Sanford Peterson	B.S.	Computer S
Brian Phillips	B.S.	Mechanical
Simon D. Prennace magna cum laude	B.S.	Mechanical
Ryan Elaine Purcell	B.S.	Chemistry
Golden Key Honor Society		J
Mathea E. Rasmussen	B.S.	Mechanical
Jason Alan Rohwer	B.S.	Mechanical
Jason M. Sakalaskas	B.S.	Civil Engin
Jimmy R. Scarborough, Jr.	B.S.	Electrical E
Student Ambassador, Student Leadership		
Honors		
Katie Lillian Schaetzle	B.S.	Chemistry -
Student Ambassador, Student Leadership		Biology
Honors		2101087
Jeffrey A. Sikkink	B.S.	Electrical E
Golden Key Honor Society	2.5.	Zicomicai Z
Robert S. Simack	B.A.	Biological S
Jane Ellen Smith <i>cum laude</i>	B.S.	Statistics
Ryan Eugene Snow	B.S.	Computer S
John Sommer	B.S.	Civil Engin
JOHN SUHINCI	ച.ഗ.	CIVII EIIGIII

Alison Spees	B.S.	Civil Engin
Stephen P. Standish	B.S.	Biological S
Aporn U-Ngern Stein cum laude	B.S.	Chemistry -
		Biology
Justin P. Stephenson cum laude	B.S.	Mechanical
Jason D. Strid	B.S.	Biological S
Louie Martinez Terrazas	B.S.	Wildlife Bio
Jared D. Thiede	B.S.	Physics
Peter James Van De Hei, Jr.	B.S.	Biological S
Chester Dewey Vaughan IV magna cum laude	B.S.	Mechanical
Nathan Markus Voegeli <i>cum laude</i>	B.S.	Mathematic
Nathan Markus Voegeli <i>cum laude</i>	B.A.	Physics
Anna Waschke cum laude	B.A.	Physics
Golden Key Honor Society, Phi Kappa Phi		•
Honor Society		
Anna Waschke cum laude	B.S.	Mathematic
Golden Key Honor Society, Phi Kappa Phi		
Honor Society		
Jeffery O. Watts	B.S.	Civil Engin
Valerie Webb	B.S.	Geology
Golden Key Honor Society		
Michael Wayne Weinant	B.S.	Mechanical
J. William Wessels, II	B.S.	Electrical E
Brandon C. Wheeler	B.S.	Chemistry
Walker S. Wheeler	B.S.	Computer S
Travis Wayne Williams	B.S.	Geology
Bryan Shay Wilson	B.S.	Electrical E
Nathan Zierfuss	B.S.	Computer S
Damon Zimmerman	B.S.	Mechanical
Craig Alan Zubris	B.S.	Geology
	2.2.	Cology
Master's Degrees		
Timur Aitimbetov	M.S.	Environmen
B.S., Kyrgyz Architecture and Construction Inst	itute (R	ussia), 1996
Paul Kirtley Atkinson	M.S.	Geology
B.S., University of Alaska, 1998		
Justin W. Breese	M.S.	Chemistry
B.S., University of Alaska, 1998		
B.S., University of Alaska, 1998		
Brandon L. Browne	M.S.	Geology
B.S., Oregon State University, 1998		
B.S., Oregon State University, 1998		
Adam K. Bucki	M.S.	Geophysics
B.S., University of Minnesota, 1998		-
Keith Regan Carney	M.S.	Physics
B.S., State University of New York, 1998		
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	Biao Chen	M.S.	Electrical E
	B.S., Beijing College of Technology, 1990		
	Norman Cushing	M.S.	Engineering
	3.S., Northern Arizona University, 1985		
	Eric S. Davis	M.S.	Computer S
	3.S., University of Alaska, 2000		
	Eric Michael Dick	M.S.	Chemistry
	B.S., University of Alaska, 1999	3.5.0	G 51
	/incent Dols	M.S.	Space Phys
	B.S., University of Liege (Belgium), 1989		г.
	Cina Louise Drake	. 100	Environme
	3.A., East Stroudsburg University of Pennsylvan		
	B.S., East Stroudsburg University of Pennsylvar		
	Anton Peter Erne	M.S.	Computer S
	3.S., Regents College (New York), 1992	мс	Coology
	Elizabeth A. Grischkowsky	M.S.	Geology
	B.A., Macalester College (Minnesota), 1995 Cecile Hannay	M.S.	Atmagnhar
	B.S., University of Liege (Belgium), 1990	W1.5.	Atmospher
	ay G. Helmericks	M.S.	Electrical E
	B.S., University of Alaska, 1998	WI.S.	Licenteari
	Beiging Huang	M.S.	Mechanica
ŀ	RN - University of Electronic Science and Techi	ากไกดง (	China) 1986
	B.S., University of Electronic Science and Techr A.S., Hangzhou Institute of Electronic Engineer		
Λ	A.S., Hangzhou Institute of Electronic Engineer	ring (Ch	ina), 1993
A F	A.S., Hangzhou Institute of Electronic Engineer Iuijun Jin	ing (Ch M.C.E	ina), 1993
A F	A.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), I	ring (Ch M.C.E 1988	ina), 1993
M H H	A.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), I A.S., Chinese Academy of Sciences (China), 199	ring (Ch M.C.E 1988 91	ina), 1993
A H H A	A.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), I	ring (Ch M.C.E 1988 91	ina), 1993
A H H A H	M.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), I M.S., Chinese Academy of Sciences (China), 199 Ph.D., Chinese Academy of Sciences (China), 199	ring (Ch M.C.E 1988 91 998	ina), 1993
M H M H	M.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), I M.S., Chinese Academy of Sciences (China), 199 Ph.D., Chinese Academy of Sciences (China), 199 Galen R. Johnson	ring (Ch M.C.E 1988 91 998	ina), 1993
M H H M H C H	M.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), I M.S., Chinese Academy of Sciences (China), 199 Ph.D., Chinese Academy of Sciences (China), 199 Galen R. Johnson B.S., University of Alaska, 1979	ring (Ch M.C.E 1988 91 998 M.S.	ina), 1993 Engineerin
M H H C H H H	M.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), In M.S., Chinese Academy of Sciences (China), 199 Ph.D., Chinese Academy of Sciences (China), 199 Galen R. Johnson B.S., University of Alaska, 1979 Rebecca A. Kelleyhouse	ring (Ch M.C.E 1988 91 998 M.S.	ina), 1993 Engineerin
M H H H C H H H	M.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), In M.S., Chinese Academy of Sciences (China), 199 Ph.D., Chinese Academy of Sciences (China), 199 Balen R. Johnson B.S., University of Alaska, 1979 Rebecca A. Kelleyhouse B.S., University of Alaska, 1998	ring (Ch M.C.E 1988 91 998 M.S. M.S.	ina), 1993 Engineerin Wildlife Bi
M H H C H H H H H H H H H H H H H H H H	M.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), M.S., Chinese Academy of Sciences (China), 1999 Ph.D., Chinese Academy of Sciences (China), 1999 Galen R. Johnson B.S., University of Alaska, 1979 Rebecca A. Kelleyhouse B.S., University of Alaska, 1998 Gristan D. Kenny	ring (Ch M.C.E 1988 91 998 M.S. M.S.	ina), 1993 Engineerin Wildlife Bi
M H H C H H H H H	M.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), M.S., Chinese Academy of Sciences (China), 1992. Ph.D., Chinese Academy of Sciences (China), 1993. Galen R. Johnson B.S., University of Alaska, 1979. Rebecca A. Kelleyhouse B.S., University of Alaska, 1998. Gristan D. Kenny B.S., University of Alaska, 1999.	ring (Ch M.C.E 1988 91 998 M.S. M.S.	ina), 1993 Engineerin Wildlife Bi
	M.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), M.S., Chinese Academy of Sciences (China), 1999 Ph.D., Chinese Academy of Sciences (China), 1999 Balen R. Johnson B.S., University of Alaska, 1979 Rebecca A. Kelleyhouse B.S., University of Alaska, 1998 Bristan D. Kenny B.S., University of Alaska, 1999 Golden Key Honor Society	ring (Ch M.C.E 1988 91 998 M.S. M.S.	ina), 1993  Engineerin  Wildlife Bi  Mechanica
	M.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), M.S., Chinese Academy of Sciences (China), 1992. Ph.D., Chinese Academy of Sciences (China), 1993. Balen R. Johnson B.S., University of Alaska, 1979. Rebecca A. Kelleyhouse B.S., University of Alaska, 1998. Bristan D. Kenny B.S., University of Alaska, 1999. Golden Key Honor Society Pisonth Keyuravong B.S., The University of Finlay (Ohio), 1974. B.S., The University of Finlay (Ohio), 1975.	m.C.E 1988 91 1998 M.S. M.S. M.S.	ina), 1993  Engineering Wildlife Bi Mechanica  Engineering
	M.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), M.S., Chinese Academy of Sciences (China), 1999 Ph.D., Chinese Academy of Sciences (China), 1999 Balen R. Johnson B.S., University of Alaska, 1979 Rebecca A. Kelleyhouse B.S., University of Alaska, 1998 Bristan D. Kenny B.S., University of Alaska, 1999 Golden Key Honor Society Pisonth Keyuravong B.S., The University of Finlay (Ohio), 1974 B.S., The University of Finlay (Ohio), 1975 pshita Majhi	ring (Ch M.C.E 1988 91 998 M.S. M.S.	ina), 1993  Engineering Wildlife Bi
	M.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), M.S., Chinese Academy of Sciences (China), 1992. Ph.D., Chinese Academy of Sciences (China), 1993. Balen R. Johnson B.S., University of Alaska, 1979. Rebecca A. Kelleyhouse B.S., University of Alaska, 1998. Bristan D. Kenny B.S., University of Alaska, 1999. Golden Key Honor Society Pisonth Keyuravong B.S., The University of Finlay (Ohio), 1974. B.S., The University of Finlay (Ohio), 1975. pshita Majhi B.S., Pune University Bvpcoe (India), 1999.	m.C.E 1988 91 1998 M.S. M.S. M.S.	Engineering Wildlife Bi Mechanica Engineering
	M.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), M.S., Chinese Academy of Sciences (China), 1992. Ph.D., Chinese Academy of Sciences (China), 1993. Balen R. Johnson B.S., University of Alaska, 1979. Rebecca A. Kelleyhouse B.S., University of Alaska, 1998. Bristan D. Kenny B.S., University of Alaska, 1999. Golden Key Honor Society Pisonth Keyuravong B.S., The University of Finlay (Ohio), 1974. B.S., The University of Finlay (Ohio), 1975. pshita Majhi B.S., Pune University Bvpcoe (India), 1999. Amber Revae Mandt	m.C.E 1988 91 1998 M.S. M.S. M.S.	ina), 1993  Engineering Wildlife Bi Mechanica  Engineering
	M.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), M.S., Chinese Academy of Sciences (China), 1992. Ph.D., Chinese Academy of Sciences (China), 1993. Balen R. Johnson B.S., University of Alaska, 1979. Rebecca A. Kelleyhouse B.S., University of Alaska, 1998. Bristan D. Kenny B.S., University of Alaska, 1999. Golden Key Honor Society Pisonth Keyuravong B.S., The University of Finlay (Ohio), 1974. B.S., The University of Finlay (Ohio), 1975. pshita Majhi B.S., Pune University Bvpcoe (India), 1999. Amber Revae Mandt B.S., University of Colorado, 1998.	m.C.E 1988 91 1998 M.S. M.S. M.S. M.S.	ina), 1993  Engineerin Wildlife Bi Mechanica  Engineerin  Environme
M H H H H H H H H H H H H H H H H H H H	A.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), In M.S., Chinese Academy of Sciences (China), 1992. B.D., Chinese Academy of Sciences (China), 1993. B.S., University of Alaska, 1979. B.S., University of Alaska, 1998. B.S., University of Alaska, 1998. B.S., University of Alaska, 1999. B.S., University of Alaska, 1999. B.S., University of Finlay (Ohio), 1974. B.S., The University of Finlay (Ohio), 1975. B.S., The University of Finlay (Ohio), 1999. B.S., Pune University Bvpcoe (India), 1999. B.S., University of Colorado, 1998.	m.C.E 1988 91 1998 M.S. M.S. M.S.	Engineering Wildlife Bit Mechanica Engineering Environme
M H H H H H H H H H H H H H H H H H H H	M.S., Hangzhou Institute of Electronic Engineer Huijun Jin B.S., Changchun Colllege of Geology (China), M.S., Chinese Academy of Sciences (China), 1992. Ph.D., Chinese Academy of Sciences (China), 1993. Balen R. Johnson B.S., University of Alaska, 1979. Rebecca A. Kelleyhouse B.S., University of Alaska, 1998. Bristan D. Kenny B.S., University of Alaska, 1999. Golden Key Honor Society Pisonth Keyuravong B.S., The University of Finlay (Ohio), 1974. B.S., The University of Finlay (Ohio), 1975. pshita Majhi B.S., Pune University Bvpcoe (India), 1999. Amber Revae Mandt B.S., University of Colorado, 1998.	m.C.E 1988 91 1998 M.S. M.S. M.S. M.S.	ina), 1993  Engineerin Wildlife Bi Mechanica  Engineerin  Environme

B.S., University of Alaska, 1999

Juliette Aimee Neville	M.S.	Wildlife Bio
B.S., University of Guelph (Canada), 1994 Helen R. Nute	M.S.	Statistics
B.S., University of Alaska, 1998		2
William Todd O'Connell	M.S.	Wildlife Bio
B.S., University of Alaska, 1995	MC	г
Rory J. O'Neill B.S., Virginia Polytechnic Institute, 1987	M.S.	Engineering
Matthew R. Patrick	M.S.	Geology
B.S., Cornell University (New York), 1999	1.1.2.	o voiog,
Emily Ann Reiter	M.S.	Chemistry
B.S., University of Alaska, 1996		
Christopher H. Roach	M.S.	Civil Engin
B.S., University of Alaska, 1989	MC	D:-1
Emmajean Pearl Rombach B.S., University of Idaho, 1997	M.S.	Biology
Jason L. Schamber	M.S.	Wildlife Bio
B.S., University of Alaska, 1996	141.5.	Whalle Br
Bradley Scott Shults	M.S.	Wildlife Bio
B.S., University of Alaska, 1986		
Marc Ivo Johan Smeets	M.S.	Chemistry
B.S., Hope College (Michigan), 1996	3.4.0	<b>.</b>
Jason Keith Smith	M.S.	Engineering
B.S., University of Alaska, 1999 Rodney A. Stanton	M.S.	Civil Engin
B.S., University of Alaska, 1991	WI.S.	Civii Eligili
B.S., University of Alaska, 1993		
Aaron Patrick Stierle	M.S.	Geology
B.S., Northern Arizona University, 1998		
Ty Sullins	M.S.	Electrical E
B.S., University of Alaska, 1998		
Mark Lawrence Taylor	M.C.E	Ξ.
B.S., Washington State University, 2000	MC	A. 1 .
Adrienne Tivy	M.S.	Atmospheri
B.S., Queen's University (Canada), 1999 Walter J. Wilcox II	M.S.	Environmer
B.S., University of Alaska, 1999	141.5.	Liivii oiiiiici
David Matthew Wilkinson	M.S.	Indoor Air
B.S., Oregon State University, 1994		Interdiscipli
Mark Roy Wilkinson	M.S.	Science Ma
B.S., University of Alaska, 2000		
Victoria Goetcheus Wolf	M.S.	Geology
B.A., Stanford University (California), 1991	MC	C . 1
Benjamin Alan Wolfe	M.S.	Geology
B.S., University of Nebraska, 1999		

Xiaoming Zhang M.S. Environmen

B.S., Xiamen University (China), 1995

Fang Zhou M.S. Biochemist

M.D., Capital University of Medicine (China), 1994

# Ph.D.

## Scott Dreher Ph.D. Geology

B.A., Eastern Illinois University, 1993

B.S., Eastern Illinois University, 1993

M.S., Indiana University, 1996

**Thesis:** The Physical Volcanology and Petrology of the 3400 YBP C of Aniakchak Volcano, Alaska

Approximately 3,400 years ago, Aniakchak volcano produced a comignimbrite, involving genetically unrelated andesite and rhyodacite in shallowly stored hybrid magma, while the rhyodacite is a magma new depth. The ascension of the rhyodacite into the andesite led to the care **Major Professor:** Dr. John C. Eichelberger

#### Michael W. Eichholz

Ph.D. Biological S Biology

B.S., Southern Illinois University, 1990 M.S., University of Alaska, 1996

**Thesis:** The Implications of Agriculture in Interior Alaska for Popula Geese

The migration ecology of Canada geese (Branta canadensis) that ness Alaska, including a description of how the introduction of agriculture impacted population dynamics of Canada geese by increasing nutries improving their fecundity and survival.

Major Professor: Dr. James Stone Sedinger

#### Hilary J. Fletcher

Ph.D. Geophysics

B.S., Newcastle University (England), 1992

M.S., University of Alaska, 1995

**Thesis:** Crustal Deformation in Alaska Measures Using the Global P Global Positioning System measurements were made at sites across a crustal deformation. Based on these measurements slip rates were ca fault systems: the Denali and Fairweather faults. The results were conquantitative tectonic model of Alaska.

**Major Professor:** Dr. Jeffrey T. Freymueller

#### Jayashree Harikumar

Ph.D. Electricial

Physics: In

M.S., University of Miami (Florida), 1989

M.S., University of Alaska, 1993

**Thesis:** Investigation of Auroral Hiss Observations on the Ground: A Sensing of Auroral Magnetosphere

Auroral hiss (AH) propagates to the ground by scattering on meter-se

dispersive nature of the scattered hiss can then be used to determine electron density along auroral fieldlines and the energy of the electro Major Professor: Dr. Vikas S. Sonwalkar

#### Kris Joseph Hundertmark

Ph.D. Biological S **Biology** 

B.S., The Pennsylvania State University, 1978

M.S., Oregon State University, 1982

Thesis: Phylogeography of Moose (Alces alces): Genetic Signatures Analysis of mitochondrial DNA revealed that all lineages of moose of Asia within the last 35,000 years. Population growth and subsequent linked to warming periods after Pleistocene glaciations. Moose color 14,000 years ago passed through a bottleneck, causing low diversity Major Professors: Dr. R. Terry Bowyer and Dr. Gerald F. Shields

### **James Patrick Lawler**

Ph.D. Biological S **Biology** 

B.S., Colorado State University, 1986

M.S., Antioch New England (New Hampshire), 1992

**Thesis:** Heat Increment and Methane Production by Muskoxen Fed Energy loss to the heat increment of feeding by muskoxen eating bro reduction in energy lost via methane production. Low and inconsiste relative to the heat increment of feeding however, makes it unlikely are realized.

**Major Professor:** Dr. Robert Gordon White

#### Brian T. Person

Ph.D. Biological

B.S., University of Alaska, 1993

**Thesis:** Herbivore-Mediated Effects on Ecosystem Processes in a Ne Interactions between geese and the vegetation on which they rely on studied. Grazing effects plant growth, and plant community zonation delta coastal zone. In turn, the effects of grazing influences animal grazing influences and grazin dynamics in both positive and negative ways.

Major Professor: Dr. Roger W. Ruess

#### **David Person**

Ph.D. Biological **Biology** 

B.S., University of Maine, 1977 M.S., University of Vermont, 1988

**Thesis:** Alexander Archipelago Wolves: Ecology and Population Via Insular Landscape

Data on home range, habitat use and demography of wolves were use population dynamics and evaluate the long-term consequences of hal

Major Professor: Dr. R. Terry Bowyer

#### Raphaela Stimmelmayr

Ph.D. Biological **Biology** 

B.S., Sophie Scholl Gymnasium in Munich (Germany), 1982

D.V.M. University of Berlin (Germany), 1988

**Thesis:** Daily Meal Patterns, Voluntary Food Intake and Fattening of and Responses to Insulin

This thesis explores the role of insulin in short-term regulation of appfattening during winter. Rhythmic variation in satiety response to me decoupling of meal size and frequency at night is suggested as an endaily appetite regulation in the reindeer.

Major Professors: Dr. Robert G. White and Dr. Kelly Drew

#### **Rune Storvold**

Ph.D. Atmospher

B.S., University of Bergen (Germany), 1991 M.S., University of Bergen (Germany), 1993

**Thesis:** Experimental and Theoretical Investigation of Stratospheric Northern Hemisphere Caused by Heterogeneous Chemistry

Ground-based measurements of stratospheric NO2 and ozone were p and Ny-Ålesund, Svalbard to evaluate the performance of current sta dimensional global chemical transport models in the Arctic. We four underestimate the summertime NOy and thereby the rate of ozone de is due to inaccurate vertical transport parameterizations in the models of the NOy throughout the stratosphere.

Major Professor: Dr. Knut Henrik Stamnes

### Zhengyu Wei

Ph.D. Biochemist Biology

B.S., Jiangxi University (China), 1988 M.S., University of Alaska, 1998

**Thesis:** A Comparative Analysis of MHC Genetic Diversity at the C Mammalian Species

The genetic level of major histocompatibility complex (MHC) at the herbivores than carnivores. Biased positive selection may be applied bottlenecked populations. Identical alleles have been found in two displit 23 million years ago; muskox and moose.

Major Professor: Dr. George Happ

### Banghua Yan

Ph.D. Atmospher

Ph.D., Institute of Atmospheric Physics (China), 1997

**Thesis:** Radiative Transfer Modeling in the Coupled Atmosphere-Oc Application to the Remote Sensing of Ocean Color Integrity

A radiative transfer model for the coupled atmosphere-ocean system accurate radiances in arbitrary directions and at levels in the atmosph is then applied to quantify the uncertainties associated with several a made about the treatment of light scattering by particles in the atmosfound that a realistic treatment of particle scattering is required to ob concentrations from ocean color imagery.

**Major Professor:** Dr. Knut Henrik Stamnes

#### Qianlai Zhuang

Ph.D. Biological

B.S., Educational College of Shandong (China), 1986
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Thesis: Modeling the Influences of Climate Change, Permafrost Dyn

**Thesis:** Modeling the Influences of Climate Change, Permafrost Dyr Disturbance on Carbon Dynamics of High Latitude Ecosystems A Soil Thermal Model (STM) was developed for applications with la models. The STM was coupled to the Terrestrial Ecosystem Model (TEM was applied to a post-fire chronosequence and was validated w temperature, soil respiration and soil carbon storage.

Major Professor: Dr. Anthony David McGuire