

School of Natural Resources and Agricultural Sciences

Degree Candidates

*Carol Lewis, Dean*

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**Baccalaureate Degrees**

Tia Callison	B.S.	Natural Resources Management: Plant, Animal and Soil Sciences
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Matthew Dusenbury <i>magna cum laude</i>	B.S.	Natural Resources Management: Plant, Animal and Soil Sciences
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Nathaniel P. Endicott	B.S.	Natural Resources Management: Plant, Animal and Soil Sciences
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Andrea Lynn Facio <i>magna cum laude</i>	B.S.	Natural Resources Management: Plant, Animal and Soil Sciences
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Christopher Wayne Fay	B.A.	Geography
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Michael Joseph Gibson <i>magna cum laude</i>	B.S.	Natural Resources Management: Resources
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Jason Edward Hoffman <i>cum laude</i>	B.S.	Geography: Environmental Studies
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Paul Kephart	B.S.	Natural Resources Management: Plant, Animal and Soil Sciences
Francesca F. May	B.S.	Geography: Environmental Studies
Cody Edwin Peterson	B.S.	Natural Resources Management: Plant, Animal and Soil Sciences
Margaret Johanna Hess Rogers <i>magna cum laude</i>	B.S.	Natural Resources Management: Resources
Clinton Brooks Talley	B.A.	Geography
Karen Fitzgerald Tilton	B.A.	Geography
Kathleen Marie Tschida	B.S.	Geography: Environmental Studies
Catherine L. Webb <i>Golden Key Honor Society</i>	B.S.	Geography: Environmental Studies

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## Master's Degrees

Robin Andrews	M.S.	Natural Resources Management
	<i>B.S., University of Alaska, 1993</i>	

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## Doctor of Philosophy Degrees

Dorte Dissing	Ph.D.	Climatology: Interdisciplinary Program
	<i>B.S., University of Copenhagen (Denmark), 1993</i> <i>M.S., University of Alaska Fairbanks, 1997</i>	
<b>Thesis:</b>	<b>Landscape Control of Thunderstorm Development in Interior Alaska</b>	
	This dissertation examined the distribution of lightning strikes, thunderclouds, thunderstorm indices, elevation and vegetation in the boreal forest region of Interior Alaska. The results suggest that the underlying surface has more influence on convective development on days with local thunderstorms than on days with widespread thunderstorms.	
	Major Professor: Dr. David L. Verbyla	
Jason Gene Vogel <i>Phi Kappa Phi Honor Society</i>	Ph.D.	Forest Sciences: Interdisciplinary Program
	<i>B.S., University of Wisconsin, 1994</i> <i>M.S., University of Wisconsin, 1997</i>	
<b>Thesis:</b>	<b>Carbon Cycling in Three Mature Black Spruce (<i>Picea mariana</i> [Mill.] B.S.P.) Forests in Interior Alaska</b>	
	Climate warming is generally predicted to increase organic matter decomposition and stimulate soil respiration. This relationship was examined for black spruce ( <i>Picea mariana</i> [Mill.] B.S.P.) near Fairbanks, Alaska, that varied in soil environment. Contrary to the prediction, soil respiration decreased with greater organic matter decomposition because spruce decreased carbon allocation to the roots.	
	Major Professor: Dr. David W. Valentine	
Martin Wilmking	Ph.D.	Landscape Ecology/Earth System Science: Interdisciplinary Program
	<i>B.S., University of Potsdam (Germany), 1998</i>	

**Thesis:****The Treeline Ecotone in Interior Alaska - From Theory to Planning and the Ecology in Between**

Treeline trees in Interior Alaska show three growth-responses to warming: enhanced, decreased (most trees  $\approx$  40 percent), non-significant. Growth-response cannot be explained only by landscape position. Modeled growth projections show possible elimination of white spruce at some locations in Denali and Gates of the Arctic national parks due to drought stress.

Major Professor: Dr. Glenn Patrick Juday