

College of Science, Engineering and Mathematics

Degree Candidates

*Joan Braddock, Interim Dean*

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Baccalaureate Degrees

|                                                                                      |      |                                                 |
|--------------------------------------------------------------------------------------|------|-------------------------------------------------|
| Casey Lee Adamson                                                                    | B.S. | Geology                                         |
| Eric Thomas Adamson                                                                  | B.S. | Physics                                         |
| Clifford William Alton                                                               | B.S. | General Science                                 |
| Heidi Ann Arts                                                                       | B.S. | Biological Sciences                             |
| Rebecca Baird                                                                        | B.S. | Biological Sciences                             |
| Brian Darren Harlen Baker                                                            | B.S. | Electrical Engineering;<br>Computer Engineering |
| Robert Alexander Baxter                                                              | B.S. | Computer Science                                |
| Michael Jon Berggren                                                                 | B.S. | Civil Engineering                               |
| George Joseph Bernt                                                                  | B.S. | Chemistry:<br>Biochemistry/Molecular<br>Biology |
| Ian Billington<br><i>cum laude, Golden Key<br/>Honor Society, Honors<br/>Program</i> | B.S. | Computer Science                                |
| Hays Horton Boughan                                                                  | B.A. | Earth Science                                   |
| Christopher J. Brockman<br><i>cum laude, Golden Key<br/>Honor Society</i>            | B.S. | Biological Sciences;<br>Wildlife Biology        |
| Shane Brodie<br><i>magna cum laude</i>                                               | B.S. | Geology                                         |
| Melanie Emma Brown                                                                   | B.A. | Biological Sciences                             |
| Nathan Edward Brown                                                                  | B.S. | Electrical Engineering;<br>Communications       |

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|--------------------------------------------------------------------------|------|-------------------------------------------------|
| Peter Craig Brown<br><i>magna cum laude</i>                              | B.S. | Civil Engineering                               |
| Steven Budd                                                              | B.S. | Biological Sciences                             |
| Saul Christopher Burger                                                  | B.S. | Mechanical<br>Engineering                       |
| Bryce C. Burns                                                           | B.S. | Wildlife Biology                                |
| Helena R. Byard                                                          | B.S. | Civil Engineering                               |
| Beth Elaine Caissie<br><i>magna cum laude</i>                            | B.S. | Geology                                         |
| Kelley Ellen Calhoun<br><i>cum laude</i>                                 | B.S. | Biological Sciences                             |
| Lou Cardona<br><i>cum laude</i> , <i>Phi Kappa Phi<br/>Honor Society</i> | B.S. | Electrical Engineering:<br>Power and Control    |
| Donald John Carlson III                                                  | B.S. | Biological Sciences                             |
| Justin N. Carstens<br><i>magna cum laude</i>                             | B.S. | Mathematics; Physics                            |
| Theresa C. Chihuly                                                       | B.S. | Biological Sciences                             |
| Edward W. Clark                                                          | B.S. | Geology                                         |
| Steven Michael Coulter                                                   | B.S. | Geology                                         |
| Joshua Adam Craft                                                        | B.S. | Mechanical<br>Engineering: Aerospace            |
| Elisabeth Kestral<br>Creelman                                            | B.S. | Biological Sciences                             |
| Richard Logan Creelman                                                   | B.S. | Mechanical<br>Engineering                       |
| Ryan Steven Cross<br><i>cum laude</i>                                    | B.S. | Geology                                         |
| Gregory Cushing                                                          | B.S. | Chemistry:<br>Biochemistry/Molecular<br>Biology |
| Deborah J. Cynar                                                         | B.A. | Biological Sciences                             |

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|-------------------------------------------------------------------------------|------|----------------------------------------------|
| William Louis Czyzewski                                                       | B.S. | Biological Sciences                          |
| Kristin Dean                                                                  | B.S. | Geology                                      |
| Lee R. DeWilde<br><i>Golden Key Honor Society</i>                             | B.S. | Mechanical Engineering                       |
| Benjamin Sox<br>Dobrovolny<br><i>cum laude</i>                                | B.S. | Civil Engineering                            |
| Gary Leonard Donofrio                                                         | B.S. | Electrical Engineering:<br>Power and Control |
| Edward Matthew Eckles                                                         | B.S. | Mathematics                                  |
| Joel D. Eichler<br><i>Golden Key Honor Society</i>                            | B.S. | Mathematics                                  |
| Heather L. Eide                                                               | B.S. | Civil Engineering                            |
| Andrew K. Eklund                                                              | B.S. | Civil Engineering                            |
| Scott Elmore                                                                  | B.S. | Biological Sciences                          |
| Heather A. Erickson                                                           | B.S. | Geology                                      |
| Jennifer Emma Erland                                                          | B.S. | Mathematics                                  |
| Joshua D. Ernst<br><i>cum laude, Golden Key Honor Society, Honors Program</i> | B.S. | Wildlife Biology                             |
| Vaughn Thomas Ewig<br><i>magna cum laude</i>                                  | B.S. | Mathematics                                  |
| Raymundo Felix                                                                | B.S. | Computer Science                             |
| Eric Allen Flora                                                              | B.S. | Computer Science                             |
| Andrew L. Frick                                                               | B.S. | General Science                              |
| Joan Friderici<br><i>magna cum laude</i>                                      | B.A. | Biological Sciences                          |
| Larissa Gall                                                                  | B.S. | Biological Sciences                          |
| Lawrence F. Garcia<br><i>Golden Key Honor Society</i>                         | B.A. | Biological Sciences                          |

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|------------------------------------------------------------------------|------|-------------------------------------------------|
| Matthew D. Garee<br><i>cum laude, Golden Key<br/>Honor Society</i>     | B.S. | Electrical Engineering:<br>Communications       |
| Karen Gerde                                                            | B.S. | Biological Sciences                             |
| Loda Antigo Griffeth<br><i>cum laude, Golden Key<br/>Honor Society</i> | B.S. | Chemistry:<br>Environmental<br>Chemistry        |
| Stacie G. Hall                                                         | B.S. | Biological Sciences                             |
| Elizabeth Ellen Hankinson                                              | B.S. | Chemistry:<br>Biochemistry/Molecular<br>Biology |
| Paloma Harbour                                                         | B.A. | Mathematics                                     |
| Gaelen C. Hatfield                                                     | B.S. | Electrical Engineering:<br>Computer Engineering |
| Aaron W. Helmericks<br><i>cum laude, Golden Key<br/>Honor Society</i>  | B.S. | Computer Science                                |
| Daniel Thomas Hepler                                                   | B.S. | Biological Sciences                             |
| Shelley A. Hicks                                                       | B.S. | Geology                                         |
| Lesia Dawn Hollen                                                      | B.S. | Biological Sciences                             |
| Letty J. Hughes                                                        | B.S. | Wildlife Biology                                |
| Kurt Hunter<br><i>Golden Key Honor Society</i>                         | B.S. | Computer Science                                |
| Kaaiohelo Jensen                                                       | B.S. | Geology                                         |
| Aimÿe Ninette Demers<br>Johnson <i>cum laude</i>                       | B.A. | Biological Sciences                             |
| Melanie Noelle Pearl<br>Johnson<br><i>magna cum laude</i>              | B.S. | Biological Sciences                             |
| Andrew Scott Johnston<br><i>cum laude</i>                              | B.S. | Computer Science                                |
| Andrew Scott Johnston<br><i>cum laude</i>                              | B.S. | Mathematics                                     |

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|-------------------------------------------------------------------|------|-------------------------------------------------|
| Jeremy D. Jones                                                   | B.S. | Mechanical Engineering                          |
| Patrick Wesley Jones                                              | B.S. | Wildlife Biology                                |
| Jed Kallen-Brown<br><i>magna cum laude</i>                        | B.S. | Physics                                         |
| Jed Kallen-Brown<br><i>magna cum laude</i>                        | B.S. | Mathematics                                     |
| Rachel E. C. Keirn                                                | B.S. | Mechanical Engineering                          |
| Imran Ali Khan                                                    | B.S. | Electrical Engineering:<br>Power and Control    |
| Jeff Kilgore<br><i>cum laude, Golden Key Honor Society</i>        | B.S. | Biological Sciences                             |
| Daniel L. Kirschner<br><i>cum laude, Golden Key Honor Society</i> | B.S. | Chemistry                                       |
| Douglas C. Knight                                                 | B.S. | Computer Science                                |
| Jeremey L. Knowlton                                               | B.A. | Biological Sciences                             |
| Sumire Kobayashi<br><i>cum laude, Golden Key Honor Society</i>    | B.S. | Physics                                         |
| Robert Stone Kocsis                                               | B.S. | Biological Sciences                             |
| Nora Irene Kohlenberg                                             | B.S. | Wildlife Biology                                |
| Joseph Victor Krizek                                              | B.S. | Mechanical Engineering                          |
| Mark Toni Lawson                                                  | B.S. | Computer Science                                |
| Wayne A. Lekanof-Horine                                           | B.S. | Electrical Engineering:<br>Computer Engineering |
| Edward Ryan L°Herault<br><i>cum laude</i>                         | B.S. | Biological Sciences                             |
| Lorinda R. Lhotka                                                 | B.A. | Biological Sciences                             |

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|------------------------------------------------------------|------|----------------------------------------------|
| Aaron E. Lindberg<br><i>magna cum laude</i>                | B.S. | Mechanical Engineering                       |
| Ryan Andrew Long<br><i>magna cum laude, Honors Program</i> | B.S. | Wildlife Biology                             |
| Michael Chauncey Lund<br><i>Student Leadership Honors</i>  | B.S. | Civil Engineering                            |
| Clifford P. Manning                                        | B.S. | Computer Science                             |
| Rachel Elisabeth Marvin                                    | B.S. | Mechanical Engineering                       |
| Alicia S. Mayo                                             | B.S. | Mechanical Engineering                       |
| Jessica A. Mensik                                          | B.S. | Biological Sciences                          |
| Ryan Leib Migdal                                           | B.S. | Computer Science                             |
| Heather Helene Moncrief                                    | B.S. | Biological Sciences                          |
| Edwin Nelson Monin, Jr.<br><i>Golden Key Honor Society</i> | B.S. | Geology                                      |
| Jessica Moore                                              | B.S. | Biological Sciences                          |
| Matthew S. Moore                                           | B.S. | Mathematics                                  |
| Kenneth R. Mueller                                         | B.S. | Biological Sciences                          |
| Wilhelm Muench<br><i>cum laude</i>                         | B.S. | Civil Engineering                            |
| Alastair N.J. Newton                                       | B.S. | Biological Sciences                          |
| Jesse Robert Niles                                         | B.S. | Computer Science                             |
| Avni Nimani                                                | B.S. | Chemistry:<br>Biochemistry/Molecular Biology |
| Dayna Lani Norris                                          | B.S. | Biological Sciences                          |
| Yvette O'Connor<br><i>Golden Key Honor Society</i>         | B.A. | Earth Science                                |
| John Olguin                                                | B.S. | Computer Science                             |

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|-----------------------------------------------------|------|----------------------------------------------------------|
| Eric J. Olson                                       | B.S. | Physics                                                  |
| Alex Venton Ostrom                                  | B.S. | Geology                                                  |
| Roy N. Pace                                         | B.S. | Electrical Engineering<br>Communications                 |
| Rahniah Jean Parker                                 | B.S. | Biological Sciences                                      |
| Mitch James Parkinen                                | B.S. | Civil Engineering                                        |
| Kevin Passa                                         | B.S. | Biological Sciences                                      |
| Tony Perkins<br><i>cum laude</i>                    | B.S. | Computer Science                                         |
| Tony Perkins<br><i>cum laude</i>                    | B.S. | Mathematics                                              |
| Christopher James Pollack                           | B.S. | Biological Sciences                                      |
| William Michael Robb                                | B.S. | Mathematics                                              |
| William Michael Robb                                | B.A. | Physics                                                  |
| Amy Ann Rodman                                      | B.S. | Geology                                                  |
| Corey L. Rogers                                     | B.S. | Electrical Engineering<br>Communications;<br>Mathematics |
| Sarah Ann Runck                                     | B.A. | Biological Sciences                                      |
| Louise Mae Russell                                  | B.S. | Biological Sciences                                      |
| Brandon Tsuzuki Saito                               | B.A. | Biological Sciences                                      |
| Tara L. Sarvela<br><i>cum laude</i>                 | B.S. | Chemistry: Juristic<br>Chemistry                         |
| Jennifer Gwen Schurmeier                            | B.S. | Biological Sciences                                      |
| Anthony Shaw                                        | B.S. | General Science                                          |
| Jason Skaggs                                        | B.S. | Mechanical<br>Engineering                                |
| Robin Lynn Smith<br><i>Golden Key Honor Society</i> | B.S. | Geology                                                  |
| Trooper R. A. Snow                                  | B.S. | Biological Sciences                                      |

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|-------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------|
| Timothy A. Sovde                                                                                                                                | B.S. | Chemistry                                    |
| Rachel LeeAnn Springer<br><i>Student Ambassador</i>                                                                                             | B.S. | Biological Sciences                          |
| Nathan Jefferson Stephan                                                                                                                        | B.S. | Civil Engineering                            |
| Agnes A. Stowe                                                                                                                                  | B.S. | Civil Engineering                            |
| Erin Templeton Strang                                                                                                                           | B.S. | Geology                                      |
| Theresa Lynn Tanner                                                                                                                             | B.S. | Wildlife Biology                             |
| Jakob M. Theurich<br><i>cum laude, Golden Key Honor Society</i>                                                                                 | B.S. | Civil Engineering                            |
| Frank Joseph Toth                                                                                                                               | B.S. | Mechanical Engineering                       |
| Everett Charles Travis<br><i>cum laude</i>                                                                                                      | B.S. | Physics                                      |
| Kelly Crete Vaughan<br><i>magna cum laude, Golden Key Honor Society</i>                                                                         | B.S. | Chemistry:<br>Biochemistry/Molecular Biology |
| Sara Margaret Vernia<br><i>Golden Key Honor Society</i>                                                                                         | B.S. | Civil Engineering                            |
| Chrystal Vickers                                                                                                                                | B.S. | Electrical Engineering<br>Communications     |
| Melanie Ruth Wagoner                                                                                                                            | B.S. | Mathematics                                  |
| Laura Marie Walters<br><i>summa cum laude, Golden Key Honor Society, Honors Program, Phi Kappa Phi Honor Society, Student Leadership Honors</i> | B.S. | Biological Sciences                          |
| Heather Lynn Wells<br><i>cum laude</i>                                                                                                          | B.S. | Biological Sciences                          |
| Aaron E. White<br><i>cum laude</i>                                                                                                              | B.S. | Mechanical Engineering                       |

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|-------------------------------------------------------------------|------|------------------------|
| Michael Lawrence Wilson                                           | B.S. | Mechanical Engineering |
| Ryan Radford Wilson<br><i>cum laude, Golden Key Honor Society</i> | B.S. | Statistics             |
| Ryan Radford Wilson <i>cum laude, Golden Key Honor Society</i>    | B.S. | Wildlife Biology       |
| Adam T. Yeager <i>magna cum laude, Golden Key Honor Society</i>   | B.S. | Biological Sciences    |

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## Master's Degrees

|                                                       |                                                       |                         |
|-------------------------------------------------------|-------------------------------------------------------|-------------------------|
| Ashish Agrawal                                        | M.S.<br><i>B.S., University of Pune (India), 1999</i> | Electrical Engineering  |
| Leslie Deanne Almberg                                 | M.S.<br><i>B.S., University of Washington, 2001</i>   | Geology                 |
| Mark Ernest Angerhofer                                | M.S.<br><i>B.S., University of Montana, 2000</i>      | Environmental Chemistry |
| Danielle L. Arnold<br><i>Golden Key Honor Society</i> | M.A.<br><i>B.S., University of Alaska, 2002</i>       | Chemistry               |
| Kevin Budsberg                                        | M.S.<br><i>B.S., University of Wisconsin, 1999</i>    | Biology                 |
| Lemuel Butler                                         | M.S.<br><i>B.S., University of Alaska, 1994</i>       | Wildlife Biology        |
| Michael C. Dean                                       | M.S.<br><i>B.S., Oregon State University, 1969</i>    | Engineering Management  |
| La-ona DeWilde                                        | M.S.                                                  | Biology                 |

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|------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------|
|                                                                  | <i>B.S., University of Alaska, 2000</i>                                     |                                       |
| Sherri Christine Dressel                                         | M.S.                                                                        | Statistics                            |
|                                                                  | <i>B.S., Valparaiso University (Indiana), 1993</i>                          |                                       |
| Kriya L. Dunlap                                                  | M.S.                                                                        | Biochemistry and<br>Molecular Biology |
|                                                                  | <i>B.S., Cornell University (New York), 1998</i>                            |                                       |
| Xiang Fang                                                       | M.S.                                                                        | Statistics                            |
|                                                                  | <i>B.E., Beijing Forestry University (China), 1997</i>                      |                                       |
| Matthew R. Fraver                                                | M.S.                                                                        | Civil Engineering                     |
|                                                                  | <i>B.S., Montana Tech of the University of Montana, 2000</i>                |                                       |
| Delenora May Grey                                                | M.S.                                                                        | Geology                               |
|                                                                  | <i>B.A., University of Minnesota, 1993</i>                                  |                                       |
| Erik Briggs Harrington<br><i>Golden Key Honor Society</i>        | M.S.                                                                        | Biochemistry and<br>Molecular Biology |
|                                                                  | <i>B.S., University of Alaska, 1999</i>                                     |                                       |
| Corianne Irene Hart                                              | M.S.                                                                        | Environmental Quality<br>Science      |
|                                                                  | <i>B.S., Southern Oregon University, 2002</i>                               |                                       |
| Graham James Hill                                                | M.S.                                                                        | Geology                               |
|                                                                  | <i>B.S., University of British Columbia (Canada), 2000</i>                  |                                       |
|                                                                  | <i>B.S., Simon Fraser University (Canada), 2001</i>                         |                                       |
| Beiqing Huang                                                    | M.S.                                                                        | Computer Science                      |
|                                                                  | <i>B.S., University of Electronic Science and Technology of China, 1990</i> |                                       |
|                                                                  | <i>M.S., University of Alaska Fairbanks, 2001</i>                           |                                       |
| Catherine Martin<br>Humphries<br><i>Golden Key Honor Society</i> | M.S.                                                                        | Biochemistry and<br>Molecular Biology |
|                                                                  | <i>B.S., University of Alaska, 2001</i>                                     |                                       |
| Margarete Ann Jadamec                                            | M.S.                                                                        | Geology                               |

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|---------------------------------|--------------------------------------------------------------------|------------------------------------|
|                                 | <i>B.S., University of Connecticut, 1999</i>                       |                                    |
| Bruce A. Johnson                | M.S.                                                               | Electrical Engineering             |
|                                 | <i>B.E., University of Wisconsin, 1978</i>                         |                                    |
| Aditi Kolatkar                  | M.S.                                                               | Electrical Engineering             |
|                                 | <i>B.E., Pune University (India), 2000</i>                         |                                    |
| Devdatta Prakash Kulkarni       | M.S.                                                               | Mechanical Engineering             |
|                                 | <i>B.E., University of Pune (India), 2000</i>                      |                                    |
| Julie Ann La Rocca-Brigham      | M.S.                                                               | Biochemistry and Molecular Biology |
|                                 | <i>B.S., University of Alaska, 1998</i>                            |                                    |
| Joseph B. Liddle                | M.S.                                                               | Statistics                         |
|                                 | <i>B.S., Northern Michigan University, 1986</i>                    |                                    |
|                                 | <i>M.S., Western Washington University, 1991</i>                   |                                    |
| Haitao Ma                       | M.S.                                                               | Mechanical Engineering             |
|                                 | <i>B.E., University of Science &amp; Technology of China, 2000</i> |                                    |
| Ekaterina Alexandrovna Matveeva | M.S.                                                               | Environmental Quality Science      |
|                                 | <i>B.S., Tyumen State Oil and Gas University (Russia), 2001</i>    |                                    |
| Nanci L. Morrison               | M.S.E.                                                             | Software Engineering               |
|                                 | <i>B.S., Campbell University (North Carolina), 2001</i>            |                                    |
| Robert Stokes Nicholson         | M.S.                                                               | Geology                            |
|                                 | <i>B.S., Tufts University (Massachusetts), 1998</i>                |                                    |
| Christopher A. Nicolai          | M.S.                                                               | Wildlife Biology                   |
|                                 | <i>B.S., Bemidji State University (Minnesota), 1996</i>            |                                    |
| Dmitry J. Nicolsky              | M.S.                                                               | Mathematics                        |
|                                 | <i>B.S., St. Petersburg State University (Russia), 2000</i>        |                                    |

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|------------------------------|-------------------------------------------------------------------------------------|-------------------------------|
| Thomas Niemeyer              | M.S.                                                                                | Environmental Quality Science |
|                              | <i>B.S., Carolo-Wilhelmina Technical University in Braunschweig (Germany), 1990</i> |                               |
| Mark A. Olson                | M.S.                                                                                | Statistics                    |
|                              | <i>B.S., Montana State University, 1993</i>                                         |                               |
| Richard Parris               | M.S.                                                                                | Electrical Engineering        |
|                              | <i>B.S., University of Dayton (Ohio), 2000</i>                                      |                               |
| Manasi Peshave               | M.S.                                                                                | Electrical Engineering        |
|                              | <i>B.E., University of Pune (India), 2000</i>                                       |                               |
| Sergei I. Pokrovsky          | M.S.                                                                                | Geophysics                    |
|                              | <i>B.S., Moscow State University (Russia), 2000</i>                                 |                               |
| Yongmei Qin                  | M.S.                                                                                | Statistics                    |
|                              | <i>B.S., Qingdao Medical College (China), 1991</i>                                  |                               |
| Srinivas Rao Raghupatruni    | M.S.                                                                                | Environmental Engineering     |
|                              | <i>B.E., Vasani College of Engineering (India), 2001</i>                            |                               |
| Srivathsan Ragunathan        | M.S.                                                                                | Mechanical Engineering        |
|                              | <i>B.E., Bharathidasan University (India), 2000</i>                                 |                               |
| Durga Prasanna Kumar Saitana | M.S.                                                                                | Mechanical Engineering        |
|                              | <i>B.T., Jawaharlal Nehru Technological University (India), 2001</i>                |                               |
| Joshua H. Schmidt            | M.S.                                                                                | Wildlife Biology              |
|                              | <i>B.S., Michigan State University, 1998</i>                                        |                               |
| Indranil Seth                | M.S.                                                                                | Environmental Engineering     |
|                              | <i>B.T., Indian School of Mines (India), 1999</i>                                   |                               |
|                              | <i>M.S., University of Alaska, 2002</i>                                             |                               |

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Phillip D. Severs       | M.S.<br><i>B.S., University of Wyoming, 1988</i>                                                                           | Mechanical Engineering    |
| Nicole South            | M.A.<br><i>B.S., University of Alaska, 1996</i>                                                                            | Chemistry                 |
| Kristine M. Sowl        | M.S.<br><i>B.S., University of Alaska, 1958</i>                                                                            | Wildlife Biology          |
| John Michael Styers     | M.S.<br><i>B.S., Rochester Institute of Technology (New York), 1992</i><br><i>M.S., State University of New York, 1995</i> | Computational Physics     |
| Arun Venkatasubramanian | M.S.<br><i>B.E., Hindustan College of Engineering (India), 2001</i>                                                        | Electrical Engineering    |
| Johann Walker           | M.S.<br><i>B.S., University of Montana, 2001</i>                                                                           | Wildlife Biology          |
| Weiyuan Wang            | M.S.<br><i>B.E., Northwest Polytechnical University (China), 1998</i>                                                      | Electrical Engineering    |
| Yichen Wang             | M.S.<br><i>B.S., China University of Geosciences, 1984</i><br><i>M.S., Luoyang Institute of Technology (China), 1995</i>   | Computer Science          |
| Yiming Wang             | M.S.<br><i>B.S., Beijing University (China), 1999</i>                                                                      | Geology                   |
| Trevor C. White         | M.S.<br><i>B.S., University of Alaska, 2001</i>                                                                            | Environmental Engineering |
| Anne Whitehead          | M.A.<br><i>B.A., Colorado College, 1999</i>                                                                                | Chemistry                 |
| Galina E. Yershova      | M.S.<br><i>B.S., Moscow State University (Russia), 2000</i>                                                                | Geophysics                |

Zhongping Zhang

M.S.

Electrical Engineering

*B.E., Huaibei Normal Institute (China), 1995*

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## Doctor of Philosophy Degrees

Mark Christopher Charlton Ph.D.

Aerospace/Electrical  
Engineering:  
Interdisciplinary  
Program

*B.S., U.S. Air Force Academy (Colorado), 1988*

*M.S., Air Force Institute of Technology (Ohio), 1992*

**Thesis:**

**A Sounding Rocket Attitude Determination Algorithm  
Suitable for Implementation Using Low Cost Sensors**

First-ever application of the recently developed unscented Kalman filter to the attitude determination of sounding rockets. In conjunction with Gauss-Newton error minimization, this algorithm filters measurements from simulated low-cost sensors and significantly outperforms a traditional extended Kalman filter implementation, providing a viable alternative to more expensive approaches.

Major Professor: Dr. Joseph G. Hawkins

Jill Johnstone

Ph.D.

Biological Sciences:  
Biology

*B.A., Middlebury College (Vermont), 1992*

*M.S., University of British Columbia, 1995*

**Thesis:**

**Fire and Successional Trajectories in Boreal Forest:  
Implications for Response to a Changing Climate**

This research examined relationships between forest fire characteristics and the composition of regenerating forest communities. Several studies demonstrated a strong influence of early post-fire conditions on vegetation regeneration. The research has applications to predicting the responses of forest communities to future changes in fire regime caused by humans or climate change.

Major Professor: Dr. Stuart F. Chapin

George Minassian

Ph.D.

Engineering: Civil

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|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|                 | <p><i>B.S., American University of Beirut (Lebanon), 1989</i><br/> <i>M.S., University of Alaska Fairbanks, 1993</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |
| <b>Thesis:</b>  | <p><b>Behavior of Granular Materials Under Cyclic and Repeated Loading</b></p> <p>Granular layers are essential contributors to the structural integrity of the pavement structure under repeated traffic loads. Triaxial tests were conducted on typical Alaska base course material using both repeated as well as cyclic loading (with shear stress reversal) to better simulate wheel load effects. The data were used to develop mechanistic models for the granular layer that account for strain hardening due to densification, and potential dilation and loss of stability.</p> <p>Major Professor: Dr. Lutfi Raad</p> |               |
| Walter C. Munly | Ph.D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Geology       |
|                 | <p><i>B.S., University of Oregon, 1972</i><br/> <i>B.S., Portland State University (Oregon), 1980</i><br/> <i>M.S., Pennsylvania State University, 1984</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |
| <b>Thesis:</b>  | <p><b>An Investigation into <math>^{40}\text{Ar}/^{39}\text{Ar}</math> Radiogenic Dating and X-ray Analysis of Shales and Clays from Northern Alaska</b></p> <p>New approaches in <math>^{40}\text{Ar}/^{39}\text{Ar}</math> radiogenic geochronology and X-ray diffraction were applied to the analysis of shales and clays from northern Alaska. These investigations provide insights into understanding the Mesozoic evolution of the Brooks Range (burial and uplift) and can be used to differentiate between detrital and diagenetic clays in the Colville Basin.</p> <p>Major Professor: Dr. Paul W. Layer</p>           |               |
| Karen Remick    | Ph.D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Space Physics |
|                 | <p><i>B.S., University of Wisconsin-Milwaukee, 1989</i><br/> <i>M.S., University of Alaska Fairbanks, 1998</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
| <b>Thesis:</b>  | <p><b>A Statistical Characterization of the High Latitude Ionosphere with a Focus on Possible Source Mechanisms for Ion Upwelling</b></p> <p>Ion mass defines plasma characteristics. Heavy ionospheric ions (<math>\text{O}^+</math>) entering the magnetosphere dramatically affect its dynamics. Transport of ions from the ionosphere to the magnetosphere is a two-step process. Incoherent scatter radar</p>                                                                                                                                                                                                               |               |

data were analyzed to determine the mechanisms responsible for the transportation of O<sup>+</sup> in the first low-altitude step.

Major Professor: Dr. Roger W. Smith

Kelley Merlet Stewart

Ph.D.

Biological Sciences:  
Wildlife Biology

*B.S., University of California, 1993*

*M.S., Texas A & M University, 1997*

**Thesis:**

**Life History Patterns of North American Elk: Effects of Population Density on Resource Partitioning, Reproduction and Plant Productivity**

Density dependence in elk (*Cervus elaphus*) on reproduction, ecosystem processes and resource partitioning with mule deer (*Odocoileus hemionus*) and cattle was examined. Changes in habitat use by elk and deer in response to cattle indicated competitive displacement. Elk had lower reproduction in the high-density than the low-density population. Density dependence in large herbivores regulates population dynamics and has substantial effects on ecosystem functioning.

Major Professor: Dr. R. Terry Bowyer