One Hundred Iwenty Third

COMMENCEMENT



December 9, 2017

University of Idaho



December 9, 2017

### TABLE OF CONTENTS

Commencement Ceremony	4
Board of Regents and University Officers	5
Alumni Association Board of Directors	6
University of Idaho Foundation	7
Guest Speaker	8
Honorary Degrees	9
Graduate Degrees	13
Advanced Professional Degrees	
College of Law	18
Baccalaureate Degrees	
College of Agricultural and Life Sciences	18
College of Art and Architecture	19
College of Business and Economics	20
College of Education, Health and Human Sciences	22
College of Engineering	23
College of Letters, Arts and Social Sciences	24
College of Natural Resources	27
College of Science	28
Commissions in the Armed Forces	29
Significance of Academic Apparel and Mace	30

### "HERE WE HAVE IDAHO"

1 Alma Mater, the hope of a pioneer race; You're fashioned of dreams and of toil, Your walls and your towers by stout-hearted men Were raised from the rock and the soil.

### Chorus

And here we have Idaho,
Winning her way to fame;
Silver and Gold in the sunlight blaze,
And romance lies in her name;
Singing, we're singing of you, ah, proudly too;
All our lives through we'll go singing,
Singing of you, Alma Mater, our Idaho.

2 Now ours is the heritage, rich and so full, The gain of their toil and their tears; And ours is the fruit, and the harvest is ours, Oh, Idaho, gift of the years.

#### Chorus

And here we have Idaho,
Winning her way to fame;
Silver and Gold in the sunlight blaze,
And romance lies in her name;
Singing, we're singing of you, ah, proudly too;
All our lives through we'll go singing,
Singing of you, Alma Mater, our Idaho.

### PRESIDENT CHUCK STABEN

Chuck Staben took office as the 18th president of the University Idaho March 1, 2014. During President Staben's first three years at the University of Idaho, he has led new initiatives to meet Idaho's needs in education and innovation while maintaining excellence in graduate and professional education, research and outreach. Staben believes that public research universities keep our nation strong, and that as the state's land-grant institution, U of I plays a unique role in making Idaho and the world a better place to live.



The university completed a new strategic plan that reaches out through 2025. It focuses on key areas, including enrollment growth and access to higher education, innovative research and scholarship, engagement across the state, and the cultivation of an inclusive and dynamic campus environment. Under Staben's tenure, the university has positioned itself for long-term growth, with enrollment initiatives that facilitate access and affordability and promote a change in Idaho's college-going culture. The university's medical education, law and other vital programs have expanded. U of I's research enterprise recently reached more than \$102 million in annual expenditures. The university completed its most successful fundraising year to date in FY2017 in support of scholarships and programs. A planned basketball and volleyball arena, as well as a leading research dairy and a renovated medical education facility, highlight facilities plans Staben has helped develop and guide.

Prior to his service at Idaho, Staben served as the provost of the University of South Dakota from 2008-2014. From 1989-2008, he was at the University of Kentucky as a professor of biology, a department chair, and as associate vice president for research. Other experience includes postdoctoral research at Stanford University from 1987-1989 and at Chiron Research Laboratories from 1985-1986. He conducted graduate research and teaching at the University of California, Berkeley from 1978-84.

Staben's research focused on fungal developmental

biology, bioinformatics and fungal genomics. He received grants from the National Science Foundation, the National Institutes of Health and other agencies. Staben taught microbiology, genetics, bioinformatics and introductory biology, and he received numerous awards for teaching. Staben received a Bachelor of Science from the University of Illinois, Champaign-Urbana, in 1978 and a doctorate in biochemistry from the University of California, Berkeley in 1984. He is originally from Waukegan, Illinois.

Staben and his wife, Dr. Mary Beth Staben, have three children. Mary Beth is a practicing physician of internal medicine.

### University of Idaho Winter Ceremony

### Presiding: Chuck Staben, Ph.D., President

Prelude	
Processional	
	Alan J. Gemberling. M.Mus., Conductor and Professor of Music Lionel Hampton School of Music
Presentation and Posting of Colors	Joint Military Services Color Guard
The National Anthem	University Wind Ensemble Alan J. Gemberling. M.Mus., Conductor and Professor of Music Lionel Hampton School of Music
	Caroline Exarhos, Graduate Student in Vocal Performance Hometown; Richland, Washington Major professor; Pamela Bathurst, M.Mus.
Faculty Welcome	Patrick Hrdlicka, Ph.D., Faculty Senate Chair
Introductions and Opening Remarks	
University of Idaho Regent's Welcome	
Commencement Address	Janet Nelson, Ph.D., Vice President, Research and Economic Development
Honorary Degree Presentation	John Wiencek, Ph.D., Provost and Executive Vice President Sanjay Sisodiya, Ph.D., Chair, Faculty Senate Commencement Committee
Armed Forces Oath of Office	Lt. Col. Seth W. Vieux, U.S. Army, Professor, Military Science
Recognition of Honor Students	John Wiencek, Ph.D., Provost and Executive Vice President
Conferring and Presentation of Graduate, Professional and	d Baccalaureate Degrees
Closing Remarks	
The Alma Mater, "Here We Have Idaho," composed by Sa	llie Hume-Douglas
The entire assemb	ly joins in the singing of the alma mater.
Announcer	Jeremy Falk, Ph.D., Agricultural and Extension Education
	Sarah M. Nelson, Ph.D., Modern Languages and Cultures. Lysa Salsbury, M.S., Women's Center Rochelle Smith, M.F.A., University Libraries

### Photography

GradImages (1-800-261-2576, www.gradimages.com) will provide photography for commencement. The studio will photograph each student and email and/or mail proofs to all students who supply an address on the card provided at the ceremony.

For more images from this ceremony, visit http://www.uidaho.edu/events/commencement.

#### Video Coverage

Video coverage of commencement is provided by the University Video Production Center. DVD and Blu-ray discs may be ordered at <a href="http://www.uidaho.edu/videostore">http://www.uidaho.edu/videostore</a>. For more information, contact the VPC at 208-885-0569 or <a href="https://www.uidaho.edu/videostore">videoctr@uidaho.edu/videostore</a>.

Today's ceremony is webcast live at http://www.uidaho.edu/live

(ENGLISH) Recap'd URL: https://recapd.com/w-3a7b49 (SPANISH) Recap'd URL: https://recapd.com/w-4c40e7 Subtitulos en Español

### ADMINISTRATION

### The Regents of the University of Idaho

Linda Clark, President Meridian

Debbie Critchfield, Vice President Oakley

David Hill, Secretary *Boise* 

Emma Atchley

Ashton

Andrew Scoggin *Boise* 

Don Soltman Rathdrum

Richard Westerberg

Preston

Sherri Ybarra State Superintendent for Public Instruction, Mountain Home

Matt Freeman
Executive Director, Idaho State Board of Education, Boise

### University Leadership

Chuck Staben, Ph.D. President

John Wiencek, Ph.D. Provost and Executive Vice President

Mary Kay McFadden, E.M.B.A. Vice President for Advancement

Dan Ewart, M.P.A. Vice President for Infrastructure

Brian Foisy, M.Acct. *Vice President for Finance* 

Janet Nelson, Ph.D.

Vice President for Research and Economic Development

Robert M. Spear, Ph.D. Director of Athletics

Yolanda Bisbee, Ed.D. Chief Diversity Officer and Executive Director of Tribal Relations

Dean Kahler, Ph.D.

Vice Provost for Strategic Enrollment Management

Jeanne Stevenson, Ph.D. Vice Provost for Faculty

Cher Hendricks, Ph.D. Vice Provost for Academic Initiatives

Blaine Eckles, Ph.D. Dean of Students

Heather A. Chermak, M.S. *University Registrar* 

Stefany Bales, M.S. Executive Director of Communications and Marketing

Joseph H. Stegner, B.A. Special Assistant to the President for Government Relations

Kent Nelson, J.D. General Counsel

Michael A. Satz, J.D. Executive Officer, Southwest Idaho

Charles Buck, Ph.D.
Associate Vice President and Executive Officer, Northern Idaho

Marc Skinner, Ph.D. Executive Officer, Southeast Idaho

### Deans

Michael P. Parrella, Ph.D.

Dean, College of Agricultural and Life Sciences

Shauna Corry, Ph.D. Interim Dean, College of Art and Architecture

Marc Chopin, Ph.D. Dean, College of Business and Economics

Ali Carr-Chellman, Ph.D. Dean, College of Education, Health and Human Sciences

Larry A. Stauffer, Ph.D. Dean, College of Engineering

Jerry McMurtry, Ph.D. Dean, College of Graduate Studies

Mark L. Adams, J.D. Dean, College of Law

Andrew Kersten, Ph.D. Dean, College of Letters, Arts and Social Sciences

Lynn N. Baird, Ph.D. Dean, University Libraries

Kurt S. Pregitzer, Ph.D. Dean, College of Natural Resources

Ginger Carney, Ph.D. Dean, College of Science

Jeff Seegmiller, Ed.D. Director, WWAMI Medical Education Program

### ALUMNI ASSOCIATION BOARD OF DIRECTORS 2017-18

### About the University of Idaho Alumni Association, Inc.

The University of Idaho Alumni Association, Inc. (UIAA, Inc.) is a non-dues-paying group, founded in 1898, that supports University of Idaho alumni to connect them with their alma mater. This network of more than 100,000 alumni worldwide is made of University of Idaho graduates or students who have completed 90 credits or more.

The University of Idaho Alumni Association, Inc. is managed by an elected board of directors that governs the UIAA, Inc. and meets formally three times a year. Duties of elected directors include managing corporate affairs, business and assets of the association. Appointed members may also serve on the board with no voting privileges.

### University of Idaho Alumni Association, Inc.

875 Perimeter Drive MS 3232 Moscow, ID 83844-3232 208-885-6154 208-885-6975 (fax) Email: alumni@uidaho.edu Website: www.uidaho.edu/alumni

### OFFICERS:

#### President

E. Whitney Johnson '08, Glendale, Arizona

#### Vice President

John Rosch '98, Northglenn, Colorado

#### Treasurer

Randy Dale Luten '83, Leesburg, Virginia

### Past President

Ben J. Rae '83, Post Falls

### Assistant Vice President, Alumni Relations and Advancement Communications

Kathy Barnard '81, Moscow

### NATIONAL DIRECTORS:

Zach Broyles '00, Denver, Colorado

Tammy Everts '91, Spokane, Washington

Catherine Freeman '09, '13, Boise

Emily French '11, Seattle, Washington

Jon Gaffney '08, Washington, D.C.

Travis Jones '99, '02, Portland, Oregon

Amy Lientz '94, Idaho Falls

Jodi Pavkov '97, '05, Gooding

Debbie Shepherd '81, Rathdrum

Don Solberg '85, Grangeville

Eric Trapp '91, Boise

Nicholas Weber '02, Moses Lake, Washington

Sean M. Wilson '96, Moscow

### University of Idaho Foundation 2017

### About the University of Idaho Foundation, Inc.

The University of Idaho Foundation was established in 1970 to attract private financial support to aid in the achievement of institutional goals and to manage assets for the benefit of the University of Idaho. The Foundation is governed by a board of directors of up to 25 volunteer voting members.

The Foundation receives gifts in a variety of forms that include cash contributions, marketable securities and real estate, and through planned giving opportunities such as bequests, gift annuities, charitable remainder trusts and others.

More than 1,515 individual endowments have been funded through charitable contributions. The endowed funds are managed in the Consolidated Investment Trust (CIT), the Foundation's pooled endowment fund. The principal is non-expendable; distributions support scholarships, faculty development, research and other programs in accordance with our donors' wishes.

With more than \$320 million in assets, the University of Idaho Foundation is the largest public foundation in the state of Idaho.

### University of Idaho Foundation, Inc.

875 Perimeter Drive MS 3143 Moscow, ID 83844-3143 Phone: 208-885-4000

### OFFICERS:

### Chairman

Karen E. Gowland '81, '84, Boise

#### Vice Chairman

Andrew P. Emerson '97, Boise

#### Treasurer

David D. Goss '69, '72, Boise

### Past Chairman

Richard W. Allen '73, McCall

### Secretary

Frances T. Ellsworth '83, Boise

#### **Executive Director**

Joy S. Fisher '81, Moscow

### GUEST SPEAKER

### University of Idaho - Moscow



Janet Nelson

Janet Nelson is the Vice President for Research and Economic Development at the University of Idaho. As the principal point of contact for the university in all research-related matters, Nelson represents the regional, national and international research interests of the institution to major research funding agencies and foundations; regional and national research consortia; national laboratories; federal and state agencies; and the private sector. Nelson works closely with faculty to catalyze, encourage and support research and scholarly activities.

Since joining the University of Idaho as a vice president in 2016, Nelson has sought to focus the university's research enterprise on established and emerging areas that have impact for Idaho and beyond; connect students to research and scholarship; and communicate the value of university research and economic development activities. The University of Idaho is the state's land-grant research university and its only R2 "Higher Research Activity" institution, according to the Carnegie Classification, with annual research expenditures that exceed \$102 million.

Nelson has a doctorate in chemistry from the California Institute of Technology in Pasadena, California. Prior to joining U of I, she served as the associate vice chancellor for research development at the University of Tennessee, Knoxville. Nelson has over 30 years of experience in scientific research, scientific review and research portfolio administration, complex and multi-disciplinary program/project management, business development science policy implementation and academic administration. She is a demonstrated leader with direct career experience across academia, government, not-for-profit organizations and industry. That experience includes roles as the director of business development for the URS Corporation, now AECOM; director of program development and deputy director of research as a contractor at the National Energy Technology Laboratory; director of the industrial and environmental section for the Biotechnology Industry Organization; Commerce Science and Technology Fellow at The National Academy of Sciences; health scientist administrator for the National Institutes of Health; program officer for the American Chemical Society; and director of education projects at Wavefunction, Inc.

Nelson holds the position of clinical research professor at U of I, and has held previous academic appointments in chemistry at the University of Tennessee, West Virginia University, Middlebury College and St. Olaf College. Before her graduate and postdoctoral experience, including a fellowship at Los Alamos National Laboratory, she earned her bachelor's degree in chemistry from Carleton College in Minnesota, where she graduated magna cum laude.

An honorary degree is awarded to a person deserving of honor by virtue of scholarly distinction, noteworthy public service or significant contributions to the state of Idaho. In the selection of candidates for honorary degrees, preference is given to those who are Idaho residents or University of Idaho graduates.

### University of Idaho – Moscow - Honorary Doctorate



Kirby A. (Noland) Dyess

**Kirby A. (Noland) Dyess** of Beaverton, Oregon, received her Bachelor of Science in physics from the University of Idaho's College of Science in 1968. She went on to do post-graduate work in management at Stanford University in California and in biochemistry at Portland State University in Oregon.

While working at Clyde's IGA in Moscow to pay for college, Dyess met and later married Carl F. Dyess, an economics major at the U of I. They moved to Portland, Oregon, to start their careers after graduation.

Kirby Dyess was one of the first women to earn a degree in physics from U of I. In 2012, she was the first woman to win a Lifetime Achievement Award from TechAmerica Oregon, formerly the American Engineering Association (AEA). In 2010, she was inducted into the College of Science Academy of Distinguished Alumni. She was inducted into the U of I Alumni Association Hall of Fame in 2007.

Dyess was born and raised with three younger brothers in Kellogg, Idaho. After two years at Linfield College in Oregon, she transferred to the University of Idaho to finish her degree. After graduation, she joined a medical company and published research on diabetes and metabolism.

She joined international technology company and computer chip maker Intel, in 1979. In 2003, she retired as corporate vice president of Intel after 23 years of service. Her most recent assignment at Intel was as director of operations for Intel Capital, where she managed a global portfolio of 400 technology companies and completed 50 acquisitions.

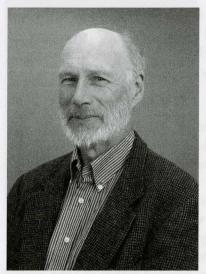
Dyess leads her own investment company, Austin Capital Management LLC, named after her grandson, Austin. She has provided seed money to 14 startup technology companies, including one spinoff from U of I.

Dyess and her husband are strong supporters of higher education and are regular contributors to Linfield College and all four research universities in Oregon, and have an endowment to support doctoral scholars. In 2008, they established the Dyess Faculty Fellowship to support outstanding faculty at U of I. The three-year fellowship supports faculty members in the College of Science, particularly those who are involved with promoting undergraduate research efforts.

University of Idaho is proud to confer upon Kirby Dyess, a most distinguished and leading alumna, the degree of Doctor of Administrative Science.

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### University of Idaho – Moscow - Honorary Doctorate



Brent Holben

**Brent N. Holben** received his Bachelor of Science in agronomy from the University of Idaho College of Natural Resources in 1972, and a Master of Science in watershed science from Colorado State University in 1976.

A native of Genesee, Holben has worked at NASA's Goddard Space Flight Center for over 39 years, performing research in ground-based and satellite remote sensing of land cover and aerosols. Additionally, he has developed innovative methods for in-orbit calibration of satellite visible and near-infrared (IR) sensors.

He is the project leader for the global AERONET sun-sky radiometer network that provides spectral aerosol optical depth and microphysical and radiometric properties for NASA's satellite cal/val program, as well as validation for a variety of U.S. and foreign satellite systems and aerosol model programs. In the process of developing the network and characterizing the great variety of aerosol types and processes, Holben

and his team have led or participated in numerous airborne, ground-based and satellite field campaigns that emphasize research and validation. These measurement campaigns have led to numerous collaborations in Brazil, South Africa, West Africa, U.S., Canada, Europe, United Arab Emirates, India, Korea, Japan and Southeast Asia.

Under Holben's 23-year guidance, AERONET has become a global standard for aerosol research and validation of satellite, airborne RS and model datasets and in situ comparisons and model assimilation. Through AERONET, Holben initiated NASA's first fully open public domain research database that is accessible in near real time.

Holben has received several awards, most notably the William Nordberg Memorial Award for Earth Science in 2005, Goddard's highest award for contributions to environmental science. He was elected fellow of the American Geophysical Union in 2016. He received the American Geophysical Union Atmospheres Kaufman Award for Unselfish Collaboration in 2015. In 2012, he became one of only 25 people to receive a medal from the Institute of Science and Technology of Vietnam. He has also received numerous Goddard Performance Awards. Holben was awarded NASA's Exceptional Service Medal in 1996 and the Medal for Exceptional Achievement in 2001.

Holben has published 385 peer-reviewed papers, with a total of 32,216 citations. He is included in the 2016 Thompson Reuters Highly Cited Researcher list, in the field of geosciences.

University of Idaho is proud to confer upon Brent Holben, a most distinguished and leading alumnus, the degree of Doctor of Natural Resources.

An honorary degree is awarded to a person deserving of honor by virtue of scholarly distinction, noteworthy public service or significant contributions to the state of Idaho. In the selection of candidates for honorary degrees, preference is given to those who are Idaho residents or University of Idaho graduates.

### University of Idaho – Moscow - Honorary Doctorate



Bill Newbry

Bill E. Newbry received his Bachelor of Arts in business administration and marketing from Eastern Washington University in Cheney, Washington, in 1982. He has served as president and CEO of Pacific Northwest Farmers' Cooperative (PNW) since 1996.

Originally from Twin Falls, Newbry graduated from Twin Falls High School in 1970. A U.S. Army veteran, he served as an air traffic controller for the U.S. Army from 1972-75 and for the Federal Aviation Administration in Spokane from 1975-81.

Newbry began his cooperative career at Genesee Union Warehouse Company in 1984, where he was central in the mergers and growth of PNW. He was promoted to merchandising manager in 1989, where he served until receiving the post as president and CEO in 1996. In 2017, he was inducted into the Idaho Cooperative Hall of Fame.

PNW is a 1,400-member agricultural cooperative formed from numerous cooperative mergers, the last being Pacific Northwest Farmers Cooperative and Cooperative Agriculture Producers in 2017. PNW's growing area spans over 70 facilities and encompasses grain movement from river barge terminals and shuttle train transportation facilities in North Idaho and Eastern Washington. In addition to grains, PNW is also a major exporter of pulses to over 40 countries in the world and supplies numerous canners and hummus manufacturers in the U.S.

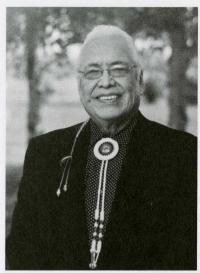
Through PNW, Newbry supports alumni and students of the University of Idaho through employment opportunities and internships. In 2012, he was honored with an award from the Bonners Ferry, Idaho, FFA chapter in recognition of PNW's support of FFA programs. He is a strong supporter of education and the community and has sat on numerous agricultural industry boards, the Genesee School Board and is a member of several national organizations.

He and his wife, Susan, a retired special education teacher, have a daughter, Meagan, who is a grade school teacher in Meridian, Idaho.

University of Idaho is proud to confer upon Bill Newbry, a most distinguished son of Idaho, the degree of Doctor of Agricultural Science.

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### University of Idaho - Moscow - Honorary Doctorate



Silas Whitman

**Silas C. Whitman** has devoted his career to the stewardship of fisheries and aquatic systems in the Columbia River Basin and Idaho. An enrolled member of the Nez Perce Tribe who resides in Lapwai, Whitman integrated tribal cultural knowledge and values into regional fisheries management efforts. He has nearly 50 years of experience in the public and private sectors conducting policy management and technical-administrative activities, including tribal treaty resource management. He served as tribal chairman for the Nez Perce Tribal Executive Committee from 2012 to 2015.

Whitman served as executive director for the National Congress of American Indians in Washington, D.C., from 1981-83 and in the private sector as executive vice president for tribal development in Kansas City, Missouri, and executive vice president for corporate development for transportation services in Ontario, California, from 1983-87.

Under Whitman's leadership, the Nez Perce fisheries program became independent from federal and state governments. It has since grown into a self-sustaining program and one of the largest tribal fisheries programs in the United States, with departments in harvest, production, research, resident fish, conservation enforcement and watershed/habitat.

He served as program manager for Nez Perce Fisheries Resource Management from 1987 to 2000. His application of indigenous knowledge and a holistic approach to fisheries management has resulted in the restoration of spring chinook, fall chinook and coho salmon populations in the region and Nez Perce treaty watersheds.

He has partnered with many University of Idaho faculty and students on research projects and has been a champion of education for tribal members. He is often an invited guest to share his wealth of knowledge with university students and fisheries professionals. His partnership with the University of Idaho included work on a National Science Foundation Alliance for Graduate Education in the Professorate grant, which created mentoring and support programs for Native American and Alaska Native students in graduate programs. His engagement helps students understand the value in traditional ways of knowing and then exploring scientific principles.

Whitman's understanding of traditional values was influenced and applied through his maternal grandparents, who instilled tribal cultural knowledge and language along with those customs and traditions, and an intimate familiarity of Nez Perce homelands and traditional natural resources utilized by the Nez Perce people.

University of Idaho is proud to confer upon Silas Whitman, a most distinguished Native Son of Idaho, the degree of Doctor of Administrative Science.

# CANDIDATES FOR DEGREES AND DEGREES PREVIOUSLY AWARDED

### GRADUATE DEGREES

### College of Graduate Studies

Established in 1925. Jerry R. McMurtry, Ph.D., Dean

### Doctor of Athletic Training

Erica Susan Albertin, Elkhart, Indiana

Evelyn Benitez-Lopez, Los Angeles, California

Robert William Cox\*, Heber, Utah

Heather Marie Cramer\*, Rancho Cordova, California

Joshua David Cramer, North Wales, Pennsylvania

Karla Sue Judge\*, Whitefish, Montana

Jessica Rae Keller\*, Marion, Indiana

Dissertation: "The Effects of Sensory Flow on the Autonomic Nervous System: A Dissertation of Clinical Practice Improvement." Major Professor: Alan Mark Nasypany

Braden Lee Lawson\*, Stroudsburg, Pennsylvania

Rodrigo E. Martinez\*, Miami, Florida

Rebecca Rae McClinon\*, Madison, Wisconsin

Jessica Lauren Nash, Laurel, Maryland

Richard Donald Patterson Jr.\*, Charleston, West Virginia

Miguel Romero Quintero\*, Sylmar, California

Britni E. Racus, Kent, Washington

Caitlin Rose Rutherford\*, Palm Springs, California

Kevin Michael Schroeder, Albuquerque, New Mexico

Eric Keith Stanford, Tupelo, Mississippi

Diane Lynn Stankevitz\*, West Covina, California

Maisie Lee Walters\*, Everett, Washington

Joshua David Williamson\*, Lexington, Virginia

Alexander Zettlemoyer\*, Mechanicsburg, Pennsylvania

### DOCTOR OF EDUCATION

### Richard Thomas Duke\*, Missoula, Montana

Dissertation: "A Multi-Case Study of Professional Ethics in Alternative Education: Exploring Perspectives of Alternative School Administrators." Major Professor: Penny Lee Tenuto

The appearance of a name in this program is presumptive evidence of graduation and graduation honors; it must not in any sense be regarded as conclusive. The academic transcript, signed and sealed by the proper university officers, remains the official testimony of the possession of the degree.

### DOCTOR OF PHILOSOPHY

#### Ann Marie Abbott\*, Genesee

Natural Resources. Dissertation: "A Comparison of Regional and Site Specific Biomass Equations for Three North Idaho Conifers." Major Professor: Mark James Kimsey

### Russell Thomas Baker\*, Riverside, California

Education. Dissertation: "An Examination of the Effects of Mechanical Manual Therapies on Clinician and Patient-Oriented Outcomes Measures: A Dissertation of Clinical Practice Improvement." Major Professor: Alan Mark Nasypany

### Daniel Caetano Da Silva\*, Sao Paulo, Brazil

Bioinformatics and Computational Biology. Dissertation: "Challenges and Advances for Phylogenetic Comparative Models of Trait Evolution." Major Professor: Luke J. Harmon

#### Wen-Lung Chang, Taipei City, Taiwan

Chemistry. Dissertation: "Development of Technologies for Recycling Rare Earth Elements and the Waste Phosphors from End-of-Life Fluorescent Lamps." Major Professor: Chien M. Wai

#### Brian Matthew DeFriez\*, Carson City, Nevada

Political Science. Dissertation: "Toward a Clearer Democracy: The Readability of Idaho Supreme Court Opinions as a Measure of the Court's Democratic Legitimacy." Major Professor: Brian Ellison

#### Anthony Rey DeLeon\*, Filer

Mechanical Engineering. Dissertation: "Large-eddy Simulations of Microscale Turbulent Winds over Arbitrarily Complex Terrain." Major Professor: Ralph S. Budwig

### Tamera Dirks, Post Falls

Education. Dissertation: "Baby-Boomer First-Generation Students at the University of Idaho." Major Professor: Sydney Freeman

### Gary Curtis Fullmer\*, Idaho Falls

Political Science. Dissertation: "Polarization Amongst the American Public." Major Professor: William R. Lund

#### Heather Emily Greaves\*, Sebastopol, California

Natural Resources. Dissertation: "Applying Lidar and High-Resolution Multispectral Imagery for Improved Quantification and Mapping of Tundra Vegetation Structure and Distribution in the Alaskan Arctic." Major Professor: Jan Ulrich Eitel

#### Megan Kenworthy, Boise

Water Resources. Dissertation: "Impacts of Hydrograph Form on Channel Morphology and Bedload Sediment Transport." Major Professor: Elowyn M. Yager

#### Jivan Khatry\*, Kathmandu, Nepal

Nuclear Engineering. Dissertation: "Modeling Transients and Designing a Passive Safety System for a Nuclear Thermal Rocket Using Relap5." Major Professor: Fatih Aydogan

### JungJin Kim\*, Andong-si, South Korea

Biological and Agricultural Engineering. Dissertation: "Integrated Water Resources Management in a Changing Climate: Water Quality, Quantity, Alternative, and Policy Making." Major Professor: Jae H. Ryu

#### Joanna Helena Kud, Rzeszow, Poland

Plant Science. Dissertation: "Regulation of the Defense-related SINAC1 Transcription Factor During Defense Signaling in Tomato." Major Professor: Fangming Xiao

#### Shannon Marie MacKenzie, Dayton, Kentucky

Physics. Dissertation: "Complex Hydrocarbons in the Saturn System." Major Professor: Jason W. Barnes

### Travis Lynn McLing\*, Idaho Falls

Geology. Dissertation: "Elucidating Water Sources and Interaction with Hydrogeologic Systems: Enthalpy, Radon, and Rare Earth Elements as Naturally Occurring Tracers." Major Professor: Robert William Smith

### Yevgen Oleksandrovych Nosyk\*, Kharkov, Ukraine

Physics. Dissertation: "The Nucleon-Nucleon Interaction in Chiral Effective Field Theory up to 5th Order (N4LO)." Major Professor: Ruprecht Machleidt

#### Aline Ortega Pieck\*, Mexico City, Mexico

Water Resources. Dissertation: "From Carbon to Fish: Understanding Mechanisms of Human Impacts on Freshwater Ecosystems." Major Professor: Lee Alexander Vierling

<sup>\*</sup> Degree awarded August 4, 2017

<sup>\*\*</sup> Degree awarded December 15, 2017

<sup>§</sup> Degree to be completed in a future semester

Ik Ju Park\*, Seongnam-si, South Korea

Entomology. Dissertation: "The Role of Olfactory and Visual Cues in the Host Finding Behavior of a Near-Monophagous Specialist Insect Herbivore Considered for Biological Control of Weeds." Major Professor: Mark Schwarzla

William Jeffery Reeder\*, Boise

Civil Engineering. Dissertation: "Spatial and Temporal Dynamics of Dissolved Oxygen and Nitrous Oxide Concentrations in the Hyperheic Zone." Major Professor: Daniele Tonina

Glenn Anderson Roth\*, Idaho Falls

Mechanical Engineering. Dissertation: "Development of a Six-Field Two-Phase Model for use in Reactor System Codes." Major Professor: Fatih Aydogan

Kendra Gail Schotzko\*, Moscow

Entomology. Dissertation: "Trees Die, Forests Live: Quantifying the Impacts of Insect Disturbances in the Intermountain West." Major Professor: Stephen P. Cook

Steven James Sitler\*, Moscow

Materials Science and Engineering, Dissertation: "Electrochemical and High Temperature Characterizations of Hafnium and Zirconium Diboride Solid Solutions with Different Additives." Major Professor: Krishnan S. Raja

Benjamin Scott Soderquist\*, Idaho Falls

Natural Resources. Dissertation: "Simulating the Influence of Shifts in Snow Redistribution on Semi-Arid Upland Vegetation in a Warming Climate." Major Professor: Kathleen Kavanagh

Thomas Anthony Ulrich, Idaho Falls

Experimental Psychology. Dissertation: "The Development and Evaluation of Attention and Situation Awareness Measures in Nuclear Process Control Using the Rancor Microworld Environment." Major Professor: Steffen Werner

Nichole Renee Valdez\*, Aurora, Colorado

Geology. Dissertation: "The Crystal Structure of Olivine and the Effect of Crystal Orientation on X-ray Absorption Spectropscopy." Major Professor: Mickey E. Gunter

# Education Specialist in Educational Leadership

Christopher William Henry Asbury\*, Mountain Home

Jeffrey Dodds, Boise

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Jolene M. Montoya, Challis

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Elsa R. Hansen\*, Lewiston

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Mathematics

Allison Marie Hancock, Ammon

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Michael Dean Harvey, Shelley
Educational Leadership

Devane Deseree Holtom, Rexburg
Educational Leadership

Lisa Nicole Honas, Twin Falls
Educational Leadership

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Aimee Rose Larsen, Meridian Educational Leadership

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Physical Education

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Special Education

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Alexandra Marie Rheault, Fargo, North Dakota
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Joseph Rodriguez\*, Grangeville

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Meghan Kathleen Smatlan, Salem, Oregon Curriculum and Instruction

Robert Thomas Stefanakos, Boise

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Computer Engineering

Joseph Elliott Lueth, Hartford, South Dakota Electrical Engineering

Protap Kumar Mahanta\*, Dhaka, Bangladesh Electrical Engineering

Christopher Lee Miller, Bremerton, Washington Mechanical Engineering

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Management Information Systems

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Cum laude

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Magna cum laude

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Katelyn Savannah Paz\*, Moscow

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# SIGNIFICANCE OF ACADEMIC APPAREL AND SYMBOLS OF INVESTITURE

### University of Idaho Academic Mace

Maces date to the Middle Ages and symbolize strength and authority. Each is unique and reflects the values and characteristics of the institution. The university's chief marshal, who leads all academic processions, carries the mace.

The University of Idaho's mace, used for the first time at the centennial commencement, is 32 inches long, made of walnut and encircled with bands of Idaho gold and silver in which Idaho garnets and opals have been inlaid. The head is embellished with silver and gold representations of camas plants and syringa flowers. The chair of the university's Faculty Senate, the marshal of the academic procession, carries the mace in the American tradition, at a 45-degree angle across the chest, while in England, the bearer carries it over the shoulder.

University of Idaho mace

### University of Idaho President's Medallions

The first medallion was created by Idaho artists George and Macky Roberts. The President's Medallion was first used in 1965 at the inauguration of Ernest Hartung, the University of Idaho's 12th president.

The medallion's base is a three-and-a-half-inch disc of pure Idaho silver. Mounted on the base is a disc of native jasper; a sterling silver sunburst is inlaid in the disc. Inside the sunburst is a modification of the Chinese character meaning "mountain," which features three upward-pointing prongs. Over the center prong is a gold inlay, thus symbolizing "Light on the Mountain."

The heavy medallion was worn suspended from a collar woven of Idaho wool, some of which is dyed with dahlia flowers to match the jasper and some of which is from a black sheep.

The second President's Medallion, worn during commencement by then-President Timothy P. White, was commissioned in 2004. This medallion's base is a gold-leafed university seal and is worn suspended by a chain with gold leaf charms, each representing the presidents who have served the university.



The university's second, and current, President's Medallion.



The first President's Medallion, created in 1965.

# SIGNIFICANCE OF ACADEMIC APPAREL AND SYMBOLS OF INVESTITURE

### University of Idaho Academic Apparel

By observing certain features of the academic apparel, it is possible to learn several things about the academic status of the scholar: the level of the degree attained, the branch of learning in which it was earned, and the college or university conferring the degree.

### Gowns

The gowns differ according to the level of the degree. The sleeves are the principal indicator—gowns of bachelor's have pointed sleeves; those of master's have oblong sleeves with an arc cut away at the front; and doctors have round, bell-shaped sleeves. Bachelor's and master's gowns are untrimmed. Doctoral gowns have distinctive velvet facing down the front and three velvet bars on each sleeve.

The University of Idaho adopted a doctoral gown of its own in 1989. The silver gown has a panel and sleeve bars of black velvet outlined in antique gold. The beret-styled soft cap is patterned after the Cambridge version instead of the traditional Oxford-style mortarboard. The cap and gown were designed by Emeritus Professor Edmund Chavez in the University's centennial year and are worn today by officials and university administration.

### **Honor Cords**

Honor Cords, worn around the neck and hanging loosely down the front, identify students who are graduating with honors: gold, summa cum laude (with highest distinction); silver, magna cum laude (with great distinction); and bronze, cum laude (with distinction). The cords are provided by the University of Idaho and are worn on this one occasion only.

### Caps

The color of the tassel worn on the cap varies with the level of degree. The bachelor's tassel represents the color appropriate to the major field of study (see colors at right); the master's and specialist's tassels are black; and the doctoral tassels are old gold.

### Hoods

The length of the hood also varies according to the level of degree. The bachelor's gown is worn without a hood. A master's hood is three and one-half feet long, and a doctor's hood is four feet in length and has panels at the sides. It is from the colors adorning the hood that one can learn two other facts. Lining: the hood is lined with the official color or colors of the college or university conferring the degree (silver and gold, signifying the University of Idaho). Trimming: the hood is trimmed with velvet of a color appropriate to the wearer's branch of learning. For example, the trimming for the degree of Master of Science in Agriculture is maize, representing agriculture, rather than golden yellow, representing science. (In the case of the Doctor of Philosophy degree, the dark blue color is used, representing the mastery of the discipline of learning and scholarship, regardless of the branch of learning.) Colors associated with the different disciplines are listed below:

Agriculture	Maize
Arts, Letters, Humanities	White
Commerce, Accountancy, Business	Drab
Economics	Copper
Education	Light Blue
Engineering	Orange
Fine Arts, including Architecture	Brown
Forestry	Russet
Journalism	
Law	Purple
Music	
Philosophy	Dark Blue
Physical Education	
Public Administration	Peacock Blue
Science	Golden Yellow

