History

Master of Science in Science Education Program

In May of 1996, the Montana Board of Regents of Higher Education approved a new degree, the Master of Science in Science Education (MSSE), designed for science educators interested in graduate study while remaining employed. MSSE is unusual in two important ways. First, it is an intercollege, interdisciplinary effort. Five colleges, The Graduate School, and sixteen departments collaborate to offer this innovative degree. Second, up to ninety percent of the course credits needed to complete the degree are offered by distance learning in structured interactive courses using asynchronous, computer mediated instruction. While direct oversight of the program was provided by the Graduate School from inception to 2016, the program was moved to the College of Letters and Science July 1, 2016. In addition to completing core courses in education, those seeking the degree develop interdisciplinary combinations of science courses from offerings in biology, chemistry, Earth science, ecology, engineering, microbiology, physics, plant science, and other science content areas. All graduates complete a capstone project before graduation.

Norm Reed, Coordinator 1996 - 1998, artfully handled admissions for the first two cohorts, oversaw design and development of core classes, and overall implementation of the program.

Carol Thoresen, Coordinator 1999 - 2007, grew the program from 25 to about 60 students per year. Larger enrollment allowed for a wider variety of science course offerings. Carol worked with instructors and researchers to develop over 25 new program courses.

Peggy Taylor, Director 2007 - 2016, was a graduate of the program's first cohort and brought a unique perspective to its administration. Contributions included expansion of the program's targeted populations, strengthening the program's framework through continuous evaluation processes, and increasing course offerings as well as involvement of science MSU faculty.

Gregory Francis, Director 2016 - 2020, is a tenured professor in the Physics Department. When the MSSE Program first began in 1996, Greg was one of the original core science faculty in the physics content area.

Diana Paterson, Associate Director 2002 - 2019. She provided critical recruiting and advising support to off-campus graduate students. Diana skillfully managed the MSSE office and staff. She retired in 2019.

Jessi Anderson, the current Faculty Lead Instructor, is also a Core Instructor and the formatting expert for Capstone Papers. Jessi is an MSSE Graduate and has extensive experience working with teachers and online instruction.

Holly Thompson Reed, Academic Advisor, joined the program in 2012. Her responsibilities include academic advising, admissions, and general student support.

Pilar Martland, Program Coordinator, joined the program in 2024. Her responsibilities include general administrative support and coordination of the MSSE Summer Capstone Symposium.

John Graves, the current Director (2021-present), has been a core MSSE instructor since 2003. He served as Lead Program Faculty from 2009-2020.



MSSE Capstone Project

Each Master of Science in Science Education (MSSE) student, with the cooperation of their graduate committee, identifies and completes a capstone project. Each project is designed to provide experience and information that aids our understanding of science teaching-learning or science curriculum. The capstone project topic is generally identified early in the student's graduate program. A student begins the project, which generally relates to science education in the MSSE student's educational setting, in the fall of the final year by submitting a proposal to their advisor. The results of each student's project are summarized in a written professional paper completed and presented in the student's final summer session. The MSSE Steering Committee, faculty, and staff congratulate these deserving graduate students for their persistence to pursue a graduate degree, while continuing full-time employment as science educators.

MSSE Program, College of Letters and Science

Director

Faculty Lead Instructor Academic Advisor Program Coordinator John Graves Jessi Anderson Holly Thompson Reed Pilar Martland

Supporting Colleges & Divisions

Academic Technology & Outreach

College of Agriculture
College of Engineering

College of Education, Health & Human Development College of Letters & Science The Graduate School Kim Obbink Sreekala Bajwa Brett Gunnink Tricia Seifert William Thomas Deborah Haynes

Collaboration Departments

Chemistry & Biochemistry

Computer Science Earth Science Ecology

Electrical Engineering

Food Systems, Nutrition & Kinesiology Land Resources & Environmental Sciences

Microbiology & Cell Biology

Physics

Plant Science & Plant Pathology

Joan Broderick
John Paxton
David Varricchio
Diane Debinski
Brett Gunnink
Dawn Tarabochia
Bob Peterson
Jovanka Voyich
John Neumeier
Michael Giroux

MSSE Faculty Steering Committee

Nick Lux Todd Kaiser Michelle Miley Ken Taylor

Angie Weikert

Chair, Department of Education

Electrical Engineering
College of Letters & Science

MSSE

Crosscut Mountain Sports Center

2025 Capstone Project Advisors & Committee Members

Lindsey Albertson, Ecology

Jessi Anderson, MSSE Program

Callan Bentley, MSSE Program

Joe Bradshaw, Gallatin College/MSSE

Sanlyn Buxner, MSSE Program

Nick Childs, Physics

Shawn Dash, Hampton University

John Graves, MSSE Program

Robyn Gotz, Earth & Weather Science

Joe Gubanyi, Concordia University

Robyn Klein, Plant Sciences & Plant Pathology

Dan Lawver, Touro College of Osteopathic Medicine

Nick Lux, Department of Education

Amanda Mattson, Chemistry

Chris Pavlovich, MSSE Program

Zoe Pratte, Microbiology & Cell Biology

Marcie Reuer, Department of Education

Patrice Rex, MSSE Program

Dana Skorupa, Chemical & Biological Engineering

Suzanna Soileau, Land Resources & Environmental Sciences

Ben Spicer, Sewickley Academy

Aki Takeda, Physics

Ken Taylor, Physics

Amy Washtak, MSSE Program

Seth White, Oregon State University

Dave Willey, Ecology

Walt Woolbaugh, MSSE Program

Capstone Presentation Schedule

Presenter	Facilitator	Advisor	Date	Time
Marcela Ines Blanco	Celeste Kenworthy	Woolbaugh/Rex/Dash	June 30	12:00 pm
Rachel Julia Brown	Kyle Roberts	Graves/Mattson	June 30	3:30 pm
Collin Buck	Natalie Paula Taranec	Anderson/Albertson	June 30	10:00 am
Elysia Burroughs	N/A	Anderson/Bradshaw	ZOOM/July 8	10:00 am
Andrea Clark	Rachel Martin	Woolbaugh/Klein	July 2	8:00 am
Lauren Coffey	Tyler Hunt	Anderson/Willey	July 1	12:30 pm
Jeffrey Cohen	lain Ridgway	Graves/Skorupa	July 1	1:00 pm
Kevin Conroy	Rachel Julia Brown	Woolbaugh/K. Taylor	July 1	12:00 pm
Jackson Riley Dinsmore	Andrea Clark	Woolbaugh/Pratte	July 1	1:30 pm
Mitchell Ehrman	Kevin Conroy	Pavlovich/Gotz	July 2	11:00 am
Rhiannon Fleming	Chad Martin	Graves/Takeda	July 2	10:00 am
Sandra Gibson	Rachael Gradwell	Anderson/Lawver	July 2	10:30 am
Rachael Gradwell	Rhiannon Fleming	Woolbaugh/Willey	July 1	8:00 am
Raymond Guest	Kelsey Ravanis	Pavlovich/Washtak	July 1	9:00 am
Matt Hopkins	Aaron Stephen Petrie	Graves/Pratte	July 1	11:00 am
Tyler Hunt	Raymond Guest	Graves/Reuer	June 30	2:00 pm
Nicole Katzaroff	Sandra Gibson	Woolbaugh/Rex/Reuer	July 1	10:30 am
Celeste Kenworthy	Stephanie Kerr	Graves/Gotz	July 1	2:30 pm
Stephanie Kerr	Eric Eugene Ryburn	Pavlovich/Bradshaw	June 30	2:30 pm
Anna Le	Collin Buck	Graves/Willey/White	July 2	11:30 am
Weston Manor	Mitch Tucker	Pavlovich/Gotz	July 1	11:30 am

Presenter	Facilitator	Advisor	Date	Time
Chad Martin	Marcela Ines Blanco	Graves/Lawver	June 30	9:30 am
Rachel Martin	Austin O'Hare	Anderson/Skorupa	July 1	8:30 am
Braden Marum	Stephanie K. Milam-Edwards	Woolbaugh/Childs	June 30	1:30 pm
Stephanie K. Milam-Edwards	Marli Ockander	Graves/Soileau	July 1	9:30 am
Marli Ockander	Jeffrey Cohen	Woolbaugh/Rex/Gubanyi	June 30	3:00 pm
Bradley O'Connell	Braden Marum	Anderson/Gotz	July 1	10:00 am
Austin O'hare	Mitchell Ehrman	Woolbaugh/Lux	June 30	10:30 am
Heather Shannon Pagano	N/A	Graves/Bradshaw	ZOOM/July 8	10:00 am
Samantha Perry	N/A	Anderson/Lawver	ZOOM/July 8	10:00 am
Aaron Stephen Petrie	Matt Hopkins	Pavlovich/Mattson	June 30	1:00 pm
Kelsey Ravanis	Jackson Riley Dinsmore	Graves/Gotz	June 30	12:30 pm
lain Ridgway	Nicole Katzaroff	Pavlovich/Bentley	July 2	9:00 am
Kyle Roberts	Anna Le	Anderson/Lawver	July 2	8:30 am
Eric Eugene Ryburn	Michelle Zarowny	Anderson/K. Taylor	July 1	2:00 pm
Natalie Paula Taranec	Bradley O'Connell	Woolbaugh/Klein	July 2	9:30 am
Mitch Tucker	Weston Manor	Woolbaugh/Spicer	June 30	9:00 am
Michelle Zarowny	Lauren Coffey	Graves/Buxner	June 30	11:00 am

Summer 2025 MSSE Science Education Symposium Presentations

Monday, June 30th

9 am Mitch Tucker – Mount Prospect, IL

Palatine High School, Palatine, IL

Romney 415

Woolbaugh/Spicer Facilitator: Weston Manor

The Impact of AP Classroom Assignments on Students in AP Physics C

Students were given assignments from the AP Classroom website in lieu of standard homework. Student engagement, interest, confidence, and achievement were measured using surveys, interviews, assessment results, and teacher observations. A mix of qualitative and quantitative data analysis strategies were used. The results suggested that while students felt more confident after completing the AP Classroom assignments, there was no significant impact on levels of engagement, interest, or achievement.

9:30 am Chad Martin – Oak Harbor, WA

Olympic View Elementary School, Oak Harbor, WA

Romney 413

iraves/Lawver

Facilitator: Marcela Ines Blanco

The Effectiveness of Using Claim, Evidence, and Reasoning to Improve Analytical Writing in Elementary Literacy

This study explored the effectiveness of using Claim, Evidence, and Reasoning as a writing framework to help fourth-grade ELA students apply analytical reasoning to their written responses. The research took place over an eight-week period and utilized data collection instruments that included pre- and post-intervention writing assessments, writing confidence surveys, teacher observations, and student interviews. The results of the study indicated a moderate gain in student performance.

10 am Collin Buck – Kalispell, MT

Idaho Home Learning Academy, Malad, ID

Romney 415

Anderson/Albertson

Facilitator: Natalie Paula Taranec

The Impact of Online Discussion Boards on Students' Abilities to Use Science and Engineering Practices in Case Studies

In my study, students were asked to complete four "performance tasks", online case studies that are intended to assess students' abilities to use science and engineering practices. Two of these case studies were assigned with discussion boards, and two were assigned without discussion boards for the experimental group. The control group had no discussion boards for any of the performance tasks. The experimental group showed a larger improvement over the four performance tasks than the control group.

10:30 am Austin O'Hare – Grand Forks, ND

Crookston Secondary, Crookston, MN

Romney 413

Woolbaugh/Lux

Facilitator: Mitchell Ehrman

The Impact of Retrieval Practice on High School Biology Assessment Performance

This study examined how retrieval quizzes affect summative assessments in a high school biology class. The study took place over three units with a different treatment applied to each unit. Unit one had no quizzes, unit two had required quizzes, and unit three had optional quizzes. Data from assessments, student surveys, quiz completion, and teacher notes showed that, when quizzes were required, students completed more quizzes and performed better on their summative assessments.

11 am **Michelle Zarowny** – Grande Prairie, Alberta, Canada

Romney 415

Graves/Buxner

Facilitator: Lauren Coffey

Land-Based Learning in Junior High Science

Lesson plans based on the pedagogy of land-based learning were implemented within a junior high space exploration unit. Land-based learning connects people to the land using Indigenous knowledge and cultural practices. Designed to follow the Alberta Science 9 Program of Studies, these lessons can be used throughout the unit of study to foster environmental stewardship and embed Indigenous knowledge in an authentic way.

12 pm Marcela Ines Blanco – El Paso, TX

Riverside Middle School, El Paso, TX

Romney 415

The Impact of Science Project-Based Learning as an Intervention Strategy on Middle School Students

Middle school students engaged in a science PBL intervention class. Students were challenged to complete science-based mini-projects or to generate solutions and explanations to a given "problem". Data collection included pre and post surveys, notebook entries, sentence summaries, and student presentations. Quantitative and qualitative data was collected to measure the impact of treatment and to ensure validity of the study. Results suggest students expressed a positive or neutral experience with PBL, as well as a deeper connection to science concepts.

Woolbaugh/Rex/Dash

Graves/Gotz

Pavlovich/Mattson

Woolbaugh/Childs

Graves/Reuer

Facilitator: Raymond Guest

Facilitator: Stephanie K. Milam-Edwards

Facilitator: Matt Hopkins

Facilitator: Celeste Kenworthy

Facilitator: Jackson Riley Dinsmore

12:30 pm Kelsey Ravanis - Burlington, MA

Marshall Simonds Middle School, Burlington, MA

Romney 413

The Impact of Nature Journaling on Student Well-Being and Stress Levels

This project explored the impact of nature journaling on middle school students' mental health. Through the course of several weeks, students engaged in weekly nature journal sessions that were aimed to foster student connection to nature and were used as a mindfulness technique. Surveys and analysis determined connections between spending time focused on nature and student well-being. The results indicate that nature journaling can be used as a beneficial mindfulness technique for middle school students. The study had a positive impact on students' feelings towards nature and students learned the value of appreciating nature for what it has to offer.

1:00 pm Aaron Stephen Petrie – Gallipolis, OH

Gallia Academy High School, Gallipolis, OH

Romney 415

Implementing Mental Health and Wellness-Focused Interventions in a Chemistry Classroom

High school students were introduced to strategies designed to support their mental health and wellness. These strategies were systematically introduced in a "topic of the day" format. The topics explored were mindfulness, nutrition, sleep, and exercise. Pre- and post-treatment surveys, a teacher reflection notebook, and student reflection notebooks were used as data collection instruments. Data were analyzed through both quantitative and qualitative methods. The results indicated that students gained knowledge of interventions, and their attitudes toward using them improved.

1:30 pm Braden Marum – Billings, MT

Lockwood High School, Lockwood, MT

Romney 413

How will the Implementation of a Weekly Formative Assessment, Where Students will be Required to Analyze a Graph, Impact Student Data Literacy?

Students practiced data literacy by engaging in a weekly formative assessment that required them to analyze a graph which presents data non-specific to the class, like what could be found in a news report or social media graphic. Pre- and post-treatment surveys, pre- and post-treatment summative assessments, and weekly formative assessment results were used as data collection instruments. Results from the treatment show that there was no significant improvement in students' data literacy skills despite students reporting that they felt more confident in their ability to analyze data.

2:00 pm Tyler Hunt - Sandyston, NJ

Sussex County Technical School, Sparta, NJ

Romney 415

Use of Real-World Examples in Chemistry Instruction to Reinforce Chemistry Core Concepts

Students were provided instruction where examples of the real-world applications of chemistry were implemented. The data collection instruments of this classroom-based research project included student surveys, an observation record which included student interviews, and student artifacts. When comparing the data between the treatment and non-treatment groups, the evidence suggested that the use of real-world applications in chemistry increased the students' performance and positive perception of the subject.

2:30 pm Stephanie Kerr – Wolfeboro, NH

Kingswood Regional Middle School, Wolfeboro, NH

Romney 413

The Effects of Nature Journaling on Middle School Science Engagement

This study examined how nature journaling could enhance engagement in middle school science. Over six weeks, seventh-grade students participated in weekly indoor and outdoor journaling sessions focused on observation, noticing details, and asking questions. Data from surveys, open-ended responses, journal analysis, and observation checklists were processed using both quantitative and qualitative analysis strategies. Results showed increased curiosity, improved observational skills, and stronger connections to scientific concepts suggesting nature journaling can be a valuable tool for promoting STEM engagement and literacy.

3 pm Marli Ockander – Sioux Falls, SD

Sioux Falls Lutheran School, SD

Romney 415

Student Comprehension of Informational Text in Middle School Science

Students were explicitly taught three strategies to enhance their understanding of informational text. Students completed a computer-adaptive achievement test before and after treatment. Additionally, pre-and post-treatment surveys and interviews were conducted to explore connections between the students' perceptions and their reading comprehension. Results indicated no significant improvements after the explicit instruction. However, continued vocabulary instruction in science appears to be beneficial.

3:30 pm Rachel Julia Brown – Belgrade, MT

Willow Creek School, Willow Creek, MT

Romney 413

Engage Before Explain: Investigating the Impact of 5E Sequencing on Student Achievement and Engagement in Science

This study examined how sequencing the Engage and Explore phases before Explain in the 5E model affected student engagement and achievement in an 8th-grade physical science class at a small, rural school. Over eight weeks, data was collected using pre- and post-surveys, unit test scores, and teacher observations. Due to a small sample size and unit topic bias, the results for this project were fairly inconclusive, but indicated trends favoring traditional instruction in achievement, and inquiry-based instruction in engagement.

Tuesday, July 1st

8 am Rachael Gradwell – Manchester, PA

Dover Area Middle School, Dover, PA

omney 415

The Impact of Increasing Middle School Science Class Size on Student Achievement and Teacher Burnout

This study explored how a 57% increase in middle school class size influenced student performance in multiple ways and affected teacher burnout. The base treatment was a sudden increase in students per class and had four phases including both solo teaching and co-teaching. Throughout those phases data was collected through gradebook analysis, surveys, interviews, journaling, and burnout scales. Results revealed differential impacts on academic achievement, declines in work completion, and rising teacher stress.

8:30 am Rachel Martin – Zelienople, PA

Slippery Rock Area High School, Slippery Rock, PA

Romney 413

Evaluating the Impact of Incorporating Primary Scientific Literature into the AP Biology Classroom

Students engaged with primary scientific literature through annotations, concept mapping, and designing follow-up experiments. Data was collected using pre- and post-tests, Likert scale surveys, and interviews. Results showed increased student confidence in reading and analyzing scientific texts. Students also improved on free-response questions requiring interpretation of research, suggesting that primary literature supports science literacy and critical thinking in high school classrooms.

9 am Raymond Guest – Missoula, MT

University of Montana, Missoula, MT

Romney 415

Engaging Students Outside the Science Classroom with the 5E Learning Cycle

The 5E Learning Cycle was utilized in a first-year College Success seminar to increase active learning. The study examined student engagement, comprehension, and attitude, using a mix of surveys, quizzes, observations, and interviews. The research found that students in the 5E section showed greater enthusiasm and preferred inquiry-driven activities compared to the lecture-based sections. The results indicate that inquiry-based learning can be an effective strategy for promoting student success in college classrooms and across disciplines.

Woolbaugh/Willey

Graves/Mattson

Facilitator: Kyle Roberts

Pavlovich/Bradshaw

Facilitator: Eric Eugene Ryburn

Woolbaugh/Rex/Gubanyi

Facilitator: Jeffrey Cohen

Facilitator: Rhiannon Fleming

Anderson/Skorupa Facilitator: Austin O'Hare

Pavlovich/Washtak

Facilitator: Kelsey Ravanis

9:30 am Stephanie K. Milam-Edwards – Mesa, AZ

Tempe High School, Tempe, AZ

Romney 413

Integrating Educational Comics in High School Science

When at-level reading comprehension skills are deficient, through low retention or barriers to language acquisition, it creates a roadblock to understanding scientific concepts at proficient levels. By pairing at-level scientific reading with constant visual cues, like those found in comic and graphic novels, two modalities for learning are utilized to achieve scientific literacy simultaneously in a format that students already recognize. This project provides teachers with a guide to integrate educational comics as part of 3D lessons from curriculum resources they already have to enhance student learning that ultimately will increase scientific literacy.

Graves/Soileau

Anderson/Gotz

Facilitator: Braden Marum

Woolbaugh/Rex/Reuer

Graves/Pratte

Pavlovich/Gotz

Facilitator: Mitch Tucker

Facilitator: Sandra Gibson

Facilitator: Aaron Stephen Petrie

Facilitator: Marli Ockander

10 am **Bradley O'Connell** – Clinton, IA

Clinton High School, Clinton, IA

Romney 415

Engagement through Case Studies in the Earth Science Classroom

Students explored and analyzed content-specific case studies to connect real-world challenges with Earth Science concepts, aiming to increase engagement. The research was structured around three cycles, each incorporating four distinct learning activities. Data on engagement, motivation, and student perspectives were collected through surveys, interviews, observations, and exit tickets. Both thematic and statistical methods were used to analyze the data. The results indicated that incorporating case studies into the curriculum increased students' motivation and engagement with Earth Science content.

10:30 am Nicole Katzaroff – Costa Mesa, CA

Foothill High School, Tustin, CA

Romney 413

The Effectiveness of Quiz Retakes in an Honors Chemistry Classroom

This action research project examined the impact of quiz retakes in an honors chemistry classroom. Students were not allowed retakes for two units, then permitted retakes for two units. Data on student anxiety, work habits, learning mastery, and teacher workload were collected throughout the study. Results indicate that quiz retakes did not reduce anxiety, affect student work habits, improve learning mastery, or positively impact teacher workload and well-being. Overall, the findings suggest that quiz retakes had limited benefits in this classroom context.

11 am Matt Hopkins – Palatine, IL

William Fremd High School, Palatine, IL

Romney 415

Seating Arrangement and Student Collaboration in a High School Chemistry Classroom

This study examined how seating arrangement impacted student collaboration in a high school chemistry classroom. Students experienced row-and-column, pods, and table layouts. Data from surveys, classroom observations, and interviews were analyzed using qualitative and quantitative methods. Pods resulted in significantly more on-task interactions and higher student perceptions of collaboration and participation. Rows limited engagement, while tables offered moderate structure. Results suggest seating design influences collaborative behavior and can be used strategically to support student engagement in science learning.

11:30 am Weston Manor - Carlsbad, CA

Rancho La Costa Habitat Preserve, Carlsbad, CA

Romney 413

Measuring and Evaluating Atmospheric Properties as a Guide to Building a Project-Based Learning Experience in an Earth Science Classroom

This educational scholarship paper is a project-based learning unit for educators to use to teach atmospheric science concepts. The lesson sequence includes hands-on activities for students to explain an atmospheric phenomenon as well as a place-based field research example to apply their prior knowledge from the classroom activities. The place-based field research example collected atmospheric data to use as evidence to explain the presence or absence of a temperature inversion over the area.

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12 pm **Kevin Conroy** – Watertown, CT

The Taft School, Watertown, CT

Romney 415

Enhancing Written Argumentation in Ninth Grade Physics Utilizing the Science Writing Heuristic

Students were taught using the Science Writing Heuristic (SWH), a learning approach that scaffolds inquiry-based investigations through writing and argumentation. Investigations included analyzing the motion of a buggy car and studying quantities that affect acceleration. Likert surveys, interviews, an argumentation rubric, student-work examples, and a teacher journal were used to collect both qualitative and quantitative data. The results suggested that students made gains in their ability to write evidence-based arguments; student confidence in performing investigations also saw noticeable increases.

Woolbaugh/Taylor

Anderson/Willey
Facilitator: Tyler Hunt

Graves/Skorupa

Woolbaugh/Pratte

Facilitator: Andrea Clark

Anderson/K. Taylor

Graves/Gotz

Facilitator: Michelle Zarowny

Facilitator: Stephanie Kerr

Facilitator: Iain Ridgway

Facilitator: Rachel Julia Brown

12:30 pm Lauren Coffey – Salt Lake City, UT

Whittier Elementary School, Salt Lake City, UT

Romney 413

Investigating the Impact of Inquiry-Based Learning on Students' Questioning Skills in Title 1 Science Classrooms

In a 5th-grade classroom, students explored properties and changes of matter through inquiry-based learning tasks. After each investigation, they generated questions to guide future inquiries. Data from content tests, surveys, interviews, and observations were analyzed using qualitative and quantitative methods. Findings showed increased engagement and improvements in the quality of student-generated questions on post-assessments.

1 pm Jeffrey Cohen – South Orange, NJ

The Pingry Lower School, Short Hills, NJ

Romney 415

Creating Respectful Discourse in an Elementary Science Classroom

This study examined peer teasing and the quality of student discourse in a 5th-grade science classroom. The Science Writing Heuristic (SWH) and various sociocultural techniques were utilized to encourage respectful discourse and argumentation in science. Pre- and post-treatment surveys, interviews, and classroom observations were used to collect data. The data were analyzed using a mixed-methods approach. Results indicated a modest improvement in discourse quality, leading to more respectful and meaningful interactions and a slight decrease in teasing.

1:30 pm Jackson Riley Dinsmore – Kansas City, MO

Blue Valley North High School, Overland Park, KS

Romney 413

Exploring the Role of Portfolios in Fostering Metacognition in High School Science

This study investigated how implementing student portfolios in a high school biology class impacted the development of reflective practices and higher-order thinking (HOT) skills. The treatment involved students completing portfolios that included embedded reflections and tasks aligned with HOT skills such as analysis, synthesis, and application. Quantitative and qualitative data sources—including rubrics, surveys, and focus group interviews—revealed increased metacognitive awareness, modest growth in students' HOT performance, and positive shifts in organization and attitudes toward learning.

2 pm Eric Eugene Ryburn – Richmond, TX

George Ranch High School, Richmond, TX

Romney 415

The Effects of Using Claim-Evidence-Reasoning Scaffolding to Assist AP Physics 1 Students in Writing Free-Response Questions

The project was implemented to study the efficacy of the claim-evidence-reasoning (CER) scaffold on the quality of written responses and students' experiences with the scaffold. Responses to two free-response questions, one using CER and the other using any method chosen by each responder, along with a survey about experience with CER, were collected and analyzed. The results showed an overall improvement in response quality and an overall positive experience with CER.

2:30 pm Celeste Kenworthy – Phoenix, AZ

Arizona Center for Nature Conservation (Phoenix Zoo), Phoenix, AZ

Romney 413

Nature-Connectedness, Knowledge, and Attitudes of Camp Zoo Attendees

Campers attended a one-week camp during the fall or winter at the Phoenix Zoo, participating in activities like animal interactions, animal discoveries, and unstructured nature play. Data collection instruments were a Likert-type survey, pre- and post-tests, and a personal meaning map. Data was analyzed both quantitatively and qualitatively. The results indicated that campers maintained a relatively high level of nature-connectedness and associated Camp Zoo with friends, fun, and animals.

Wednesday, July 2nd

Andrea Clark – Bonifacio Global City, Taguig, Metro Manila, Philippines 8 am

Woolbaugh/Klein International School of Manila in BGC, Philippines Facilitator: Rachel Martin

Romney 415

Note-taking Strategies for Middle School Science

This study explores how student choice in note-taking influences academic performance and engagement. Teacher-created notebooklets ensured that the work-load difference between digital and physical formats was negligible while also increasing engagement by offering clear organization and a manageable scope of study. Using surveys, interviews, and assessments, the researcher found no meaningful difference in engagement or academic success between the note-taking methods. Students select digital notes because they support readability and ease of use, whereas physical notes are chosen for personalization and memory recall. The research demonstrates how student learning experiences improve through student choice and structured support.

8:30 am Kyle Roberts - Great Falls, MT

Loy Elementary School, Great Falls, MT

Romney 413

The Impact of Small Group Collaboration on Classroom Engagement in 4th-Grade Science Lessons

Students in a fourth-grade class were given a structured framework to follow during small group discussions and collaborative work. The effect on student engagement was measured using surveys, teacher observations, behavior tallies, and interviews. Data were analyzed through statistical and thematic methods. Results suggested that the discussion framework promoted greater engagement and more meaningful participation in classroom conversations.

9 am lain Ridgway - Worcester, MA

Bancroft School, Worcester, MA

Romney 415

Impact of Gradeless Formative Assessments in High School Science Classes

The impact of graded versus gradeless (treatment) formative assessments on student growth and performance in two science classes was investigated. Data collection included pre-, during and post-surveys, interviews and summative assessment scores. Results demonstrated that students in the graded group performed significantly better in one unit, while no significant difference was observed in the second. Student surveys suggested graded formative assessments provided clearer feedback and increased motivation to learn. Findings suggest grading formative assessments enhances student engagement and comprehension.

Natalie Paula Taranec – Almaty, Kazakhstan

Almaty International School, Almaty, Kazakhstan

Romney 413

Anderson/Lawver

Facilitator: Anna Le

Pavlovich/Bentley

Facilitator: Nicole Katzaroff

Facilitator: Bradley O'Connell

The Effect of Targeted Secondary Research Strategies in Middle School Science

This study evaluated whether targeted research strategies positively impacted students' written understandings of scientific concepts. During three learning cycles in two Grade 8 Earth Science classrooms, students were given mini-research lessons and research scaffolds to support their understanding of searching, analyzing, and organizing information. A student-perception Likert Survey, research work samples, narrative unit reflections, in-depth interviews, and teacher journal notes were used to collect quantitative and qualitative data. Despite little difference between the treatment and comparison group, most students produced detailed conclusions, showed increased engagement, and had good recall of information about their secondary research projects.

10 am Rhiannon Fleming - Bozeman, MT

Montana State University, Bozeman, MT

Romney 415

Graves/Takeda Facilitator: Chad Martin

Understanding the impacts of the Montana State University Solar Physics/Astrophysics Research Experience for Undergraduates Research Experience for Undergraduates (REU) enhances subject knowledge, research skills, and scientific networking. Montana State University's solar/astrophysics REU has run for 23 years, encouraging student growth. In 2024, we tracked progress with formative assessments, surveys, interviews, and observation journals. Quantitative analysis applied averages, normalized gains, and Chi-Squared tests, while qualitative data revealed key themes. Results showed increased confidence in material and presentation skills. The researcher recommended enhancing community engagement and continuing outreach efforts to improve satisfaction.

10:30 am Sandra Gibson – Boynton Beach, FL

Park Vista Community High School, Lake Worth, FL

Romney 413

The Impact of Self-Assessments on Academic Performance of High School Biology Students

Students used self-assessment on standards-based tests to identify areas for remediation or enrichment. They addressed learning gaps using manipulatives and interactive videos. Pretests, posttests, Likert scales, and student surveys provided feedback. Paired ttests and thematic analysis showed that the self-assessment strategy led to improved academic performance and greater student ownership of learning.

11 am Mitchell J. Ehrman – Cincinnati, OH
D. Russel Lee High School, Hamilton, OH

Romney 415

Utilizing Problem Based Learning in a College Credit Plus Physics Classroom

A Problem Based Learning (PBL) approach was the method of instruction during this study. Effects on student assessment performance, classroom engagement, and assignment autonomy were measured. Data collection instruments included comparison of mean unit exam scores, surveys of student perception, and observations of student autonomy. While exam scores initially decreased, they surpassed those of the control group. Many students responded favorably to PBL activities indicating an increase in classroom engagement, and many others provided suggestions to make PBL more meaningful to them. Teacher intervention during lab activities decreased as the study progressed.

11:30 am Anna Le – Portland, OR
Grayling Education, Portland, OR
Romney 413

Graves/Willey/White Facilitator: Collin Buck

Anderson/Lawver

Pavlovich/Gotz

Facilitator: Kevin Conroy

Facilitator: Rachael Gradwell

Exploring the Impacts of Personal Meaning Maps on Students' Learning in Outdoor Science Education

This study examined the effects of personal meaning maps as an assessment tool in improving engagement and comfort in a place-based outdoor science learning environment. Data collection instruments included a pre-activity survey, pre- and post-personal meaning map assessment, and interviews. Quantitative and qualitative analysis methods were used to understand how the students' backgrounds influenced their learning. The results indicated that implementing personal meaning maps as an assessment tool contributed to a positive shift in learning and connecting with the subject.

Presentations Outside of Capstone Symposium Week

Heather Shannon Pagano — Wayne, NJ George Washington Middle School, Wayne, NJ ZOOM Graves/Bradshaw Facilitator: N/A

Location, Location, Location! Resources for Place-Based Education in The Middle School Science Classroom

Through application of science and engineering practices and crosscutting concepts to address middle school life and earth science standards, lessons were developed based on research encompassing early adolescent development and best practices in an inquiry-based classroom. Tenants of place-based education and examples of formal and informal learning environments were also incorporated. Lessons followed the 5E model of science teaching.

Samantha Perry – Ceres, NY Port Allegany School District, Port Allegany, PA ZOOM Anderson/Lawver Facilitator: N/A

The Effects of Game-Based Learning Methods in Middle School Science

This study investigated the impact of hands-on and digital game-based learning on engagement and knowledge retention in an 8th-grade general science class. Interactive digital and hands-on science games were implemented during instruction. Results showed increased engagement across both methods, with hands-on activities encouraging collaboration and digital games supporting content retention. A blended game-based learning approach may enhance motivation and improve science learning outcomes.

Elysia Burroughs – Plainfield, NH Kimball Union Academy, Meriden, NH ZOOM Anderson/Bradshaw Facilitator: N/A

The Impact of an Inquiry Science Project on Data Analysis and Interpretation Skills

Students in a high school anatomy and physiology course explored the concept of homeostasis through an inquiry science project to measure the impact on their data analysis and interpretation skills. Pre- and post-tests, pre- and post-skills surveys, interviews, and teacher observations were used to collect data. Both qualitative and quantitative analysis strategies were applied. Results indicated that inquiry-based learning supported stronger gains among less confident students and contributed to increased confidence in data interpretation

The following students earned a **Graduate Teaching Certificate** in one of these areas: Chemistry (CH); Climate Science (CS); Earth Science (ES) Elementary Science (EL); Life Science (LS); Physics (PS); STEM (ST):

Marcela Ines Blanco (ST); Andrea Clark (LS); Jackson Riley Dinsmore (LS); Rhiannon Fleming (PS); Sandra Gibson (LS); Celeste Kenworthy (ES); Weston Manor (ES); Bradley O'Connell (ES); Natalie Paula Taranec (LS); Michelle Zarowny (LS)

1999 Graduates

Paul Andersen, Bozeman, MT Edward Barry, Sacramento, CA Richard Dees, Billings, MT Maureen Driscoll, Butte, MT Janet Erickson, Helena, MT Beth Farrar, Rapid City, SD Kerry Friend, Cayucos, CA Jonathan Hanson, Bigfork, MT Melissa Henthorn, Turah, MT Kevin Klawonn, Lennox, SD Nancy Males, Mansfield, TX Wayne Mangold, Plevna, MT David McDonald, Sidney, MT Joy-Lyn McDonald, Sidney, MT Josey McLean, Great Falls, MT John Miller, Billings, MT Randall Morgan, Ketchikan, AK Kelly Morrow, Kalispell, MT Marjorie Robbins, Morton, IL Lisa Rubright, Manhattan, MT Peggy Taylor, Farmington, NM Shannon Walden, Fort Benton, MT Martin Wells, Taylor Mill, KY

2000 Graduates

Randall Carmel, Millersburg, OH Beverly DeVore, Meeker, CO Ivanell George, Houston, TX Jeffery Greenfield, Shepherd, MT Mark Halvorson, Sidney, MT Tom Hennard, Stavanger, Norway Steven Lockyer, Conrad, MT Ann Lukey, Alberta, Canada Lisa Mahony, Bozeman, MT Craig Messerman, Missoula, MT Kathleen Napp, Scottsdale, AZ Sandy Shutey, Butte, MT Lisa Snyder, Chevenne, WY James Temple, Glendive, MT Melanie Vinion, Wooster, OH Chrystel Wells, Taylor Mill, KY

2001 Graduates

Robert Beese, Gardiner, MT Rodney Benson, East Helena, MT Jeffrey Berg, Auburn, MA Lawrence Bice, Cottonwood, AZ Penny Long Blue, Ellsworth, KS Kathy Brown, Taft, CA Daniel Campbell, Big Timber, MT John Etgen, Belgrade, MT Sharon Fox, Great Falls, MT Ashton Griffin, Goldsboro, NC Taylor Hansen, Bozeman, MT Deanna Hill, Alberta, Canada Richard Lahti, Fergus Falls, MN Sanford MacSparran, Logan, UT Bradley Piroutek, Belleville, KS Rebecca Reno, Havre, MT David Robbins, Nairobi, Kenya Jack Schoonen, Dillon, MT Wendy Sink, Burton, MI Clinton Stephens, Escalante, UT Kathleen Thorsen, Menomonee, WI

2002 Graduates

Ronald Abarta, Chehalis, WA Shannon Bowen, Strasburg, VA Peter Bregand, Fullerton, CA Pamela Duncan, Woodstock, IL Leslie Griffen, Rohnert Park, CA Mary Jane Goebel, Rapid City, SD Jody Hurd, Helena, MT Tom Huston, Vale, OR Kevin Kapanka, Kenton, OH Lloyd Magnuson, Butte, MT Deanna Mazanek, Athena, OR Todd Morstein, Lakeside, MT Melissa Newman, Dutton, MT Chris Ottey, Bozeman, MT Robert Pendzick, Canfield, OH Mary Slack, Wheaton, IL Michelle Snyder, Athena, OR Michele Thomas, Bakersfield, CA Kerby Winters, Vale, OR

2003 Graduates

Cyndie Beale, Fairbanks, AK John Scott Beaver, Talpa, TX Amy Berg, Auburn, MA Eric Berg, Auburn, MA Nikki Bethune, Sapulpa, OK Bruce Bourne, Seeley Lake, MT Kevin Bowman, Jackson, OH Corbin Brace, Waterville, ME Kelly Cameron, Ridgefield, WA Ralph Carlson, Hilmar, CA Corinne Chavern, Pittsburgh, PA Susan Choman, E. Wenatchee, WA Tom Cubbage, Great Falls, MT Sandra DeYonge, Rye, NY Sharon Dotger, Raleigh, NC Phyllis French, Douglasville, GA Michele Geisler, Rutland, VT Michael Gregory, Pinedale, WY Robin Hehn, Roundup, MT Kathy Howe, Houston, TX Jack Julian, Cairnbrook, PA Linae Kendall, Saunemin, IL David Lee, Taylorville, NC Brita Lien, Alberton, MT Eric Matthews, Bozeman, MT Diane Mayer, Bozeman, MT Birgitta Meade, Decorah, IA Linda Moule, Claremont, CA

Susan Olsen, Brownsville, PA
Ryan Prnka, Skagway, AK
Rob Smith, Marengo, IL
Sonja Steffan-Squires, Lancaster, CA
Jim Striebel, Corvallis, MT
Nicole Trombetta, Duluth, GA
Melody VanderWeide, Grand Rapids, WI
Jeffery Wehr, Inverness, MT
Tim Ziegler, Stowe, VT

2004 Graduates

Kimberly Atkins, Annandale, MN Christopher Cox, Buffalo, WY Kellev Davis, Monkton, MD Kirsten DeHart, Houston, TX Patricia DiEduardo, Lewiston, ME Terry Edinger, Trabuco Canyon, CA Mary Margaret Eraci, Lombard, IL Randy Farchmin, Menomonee Falls, WI Dona Furrow, Jackson Center, OH Larry Gursky, Roy, WA Emmylou Harmon, Kremmling, CO Penny Juenemann, Two Harbors, MN Loren Kane, Natick, MA Robin Kent, Missoula, MT Dan Kloster, Longmont, CO Karen Krieger, Bozeman, MT Deanna Meyer, West Jordan, UT Lee Moss, Orangeville, UT Michael Mulligan, Brazil Katharine Murphy, Ogden, KS DeAnn Neal, Midvale, UT Jeannine Paszek, Reno NV Glenn Peterson, Greeley, CO Kim Popham, Lolo, MT Mary Porter, Melrose, MA Gordon Powell, Cortland, OH Chuck Shepard, Saltsburg, PA Bernie Smith, Colstrip, MT Dorothy Smith, Colstrip, MT Scotty Stalp, Germany Kim Walker, Johnson, KS Erika Wells, Jackson, WY Jeff Youker, Placerville, CA Brian Zeiszler, Elko, NV

2005 Graduates

Marc Afifi, Seaside, CA
Christine Bergholtz, Kenai, AK
Matt Bilen, Elgin, IL
Andy Broyles, Aberdeen, SD
Brendan Casey, La Mesa, CA
Peggy Collins, Dudley, MA
Andrew Conger, New Orleans, LA
Michelle Cullen, Valdez, AK
Richard Davis, Frazier, MT
Eric Dougherty, Newport, NC
Brian Edlund, Benson, MN

Rachel Endelman, Monroe, WA Monica French, Salt Lake City, UT Nelson Fuamenya, Hunan, China Ricarda Hanson, Ashland, MT Kelley Hoffman, Beaver Dam, WI Diane Holloway, Osaka, Japan Steve Huffman, Honolulu, HI Cathy James-Springer, West Indies Roby Johnson, Yuma, CO Ryan Kapping, Wadena, MN Nicole Kirschten, Newfield, NY Anita Linder, Mt. Zion, IL Brad Loveday, Alamo, NV Justin Lovrien, Sioux Falls, SD Leslie McDaniel, Memphis, TN Carla McFadden, Oroville, WA Valdine McLean, Lovelock, NV Chris McNabb, Ganado, AZ Jomae Mertz, Parker, CO Eric Miller, Athens, OH Lelia Mitchell, Brighton, MA Mark Nevala, Klamath Falls, OR Kristina Newman, Swanton, OH Helga Pac, Bozeman, MT Lori Peterson, Polson, MT Lander Purvis, Bozeman, MT Chris Putzler, Kalispell, MT Margaret Rossignol, Boulder, CO Matthew Rubin, Saugus, CA Katherine Saylor, Fall City, WA Tonya Shepherd, Pineville, LA Chris Spera, Dixon, IL Susan Steckel, Winchester, IL Zachary Stroker, Columbia Becky Sundin, Baker City, OR Christine Sundly, Great Falls, MT Brian Swarthout, Bozeman, MT Harold Taylor, Bidwell, OH Neysa Thiele, Mt. Zion, IL Erin Trame, Ann Arbor, MI Josh Underwood, Tollesboro, KY Travis Vandenburgh, Independence, MO Jennifer Werda, Plymouth, NH LeAnne Yenny, Bozeman, MT

2006 Graduates

Cheryl Abbott, Palmer, AK
Stacie Laducer Blue, Fargo, ND
Larry Boyd, Marysville, WA
Rich Calhoun, Lakeville, CT
Chuck Campbell, Russellville, AR
Dawn Carson, Shepherd, MT
Alicia Cepaitis, Fort Collins, CO
Sue Counterman, Littleton, CO
Randy Daniel, Huntsville, AL
Yvette Deighton, Sparks, NV
Lindsay Forys, White, PA
Greg Gaffey, Beloit, WI

Amanda Gilbreath, Madison, AL Tara Hall, Golden, CO Laura Hauswald, Seattle, WA Lauren Hinchman, Charlevoix, MI Laura Holmquist, Bigfork, MT Joanna Hubbard, Anchorage, AK Margie Huber, Gahanna, OH Ken Mager, Oak Forest, IL Michael Magno, Monroe, NC Steve McCauley, Boulder, MT Kevin McChesney, Reynoldsburg, OH Carla McFadden, Oroville, WA Rebecca Mentzer, Columbus, OH Kathy Meyer, Apple Valley, CA Sherry Miller, West Coxsackie, NY Gina Monteverde, Winthrop, WA Leslee Morehead, Leslie, TX Lori Ann Muchmore, Lolo, MT Troy Nordick, South Jordan, UT Kenny Peavy, Kuala Lumpur, Malaysia Rhonda Phillips, Saskatchewan, Canada Vasantha Prasad, Tamilnadu, India Craig Richards, Colusa, CA Diane Ripollone, Garner, NC Brad Shuler, Elk Ridge, UT Brian Sica, Idaho Falls, ID Chris Straatman, New Holland, SD Bonnie Streeter, Whitefish, MT Brian Sullivan, Great Falls, MT Michel Telling, Boulder, MT Paul Tingler, Akron, OH Genevieve Walsh, Bozeman, MT Molly Ward, Bozeman, MT Amy Washtak, Bozeman, MT Deb Williams, Ames, IA Rick Wyman, Hardin, MT Besty Youngman, Phoenix, AZ

2007 Graduates

Serena Ayers, Springfield, NJ Jason Barr, Charlotte, FL Lindsay Bartolone, Chicago, IL Lesley Chappel Bunch, Palmer, AK Lisa Carpenter, Shepherd, MT Mark Calhoun, Tucson, AZ Jennifer Ceven, Avon, MA Tonya Chapweske, Miles City, MT Stacey Dobrosky Cool, Merced, CA Victor Dalla Betta, Kalispell, MT Bradley Deacon, Montoursville, PA Dale Dennler, Cresco, IA Bruce Dudek, Ashland, MT Brooke Durham, Reynoldsburg, OH Jane Fisher, Kingston, NY James Flora, Pleasant Hope, MO Jonathan Frostad, Olympia, WA Kimberley Garner, Anchorage, AK Jeffrey Gaston, Omaha, NE Kelly R. Gorski, Kelly, WY

Jeff Grom, Belgrade, MT Angela Haas, Gardiner, MT Marie Akers Hamaker, Cincinnati, OH Lisa Hawkins, Taejon, South Korea Kelly Hayden, Bozeman, MT Shelia Higgins, Bentonville, AR Bernard Hoczur, Daytona Beach, FL Linda Jones, McLaughlin, SD Julianne Kent, Bradenton, FL Alexa Knight, Grants Pass, OR Karla Laubach, Kingston, WA Catherine Le, San Jose, CA Rebekah Levine, East Burke, VT Jean Lewis, Jackson, WY Cooper Mallozzi, Leadville, CO Michelle Marcil-Spicer, Houston, TX Jason Martin, Houston, TX Jeffrey Moll, Haverhill, MA Stephanie Parker, Tucson, AZ Jacki Pealatere, Willits, CA Stuart Perez, Redfield, KS Lisa Pingrey, Custer, SD Cary Rosillo, Jupiter, FL Patrick Simmons, Chesterfield Co, VA Michael Sitter, Polson, MT Brian Stiff, Billings, MT Rebecca Tolzman, Bozeman, MT Nina Tyree, Alexandria, VA Peggy Van Valkenburgh, Peterborough, NH Michelle Vitko, Norwich, CT Brynna Vogt, Craig, CO Christy Ware, Newtown Square, PA Sharon Welter, Golden Valley, MN Jenine Rued Winslow, San Diego, CA Emily Wrubel, Peterborough, NH

2008 Graduates

Steven Alexander, Canton, NY Jenelle Bailey, Wenatchee, WA Marlessa Benson, Appleton, WI Jennifer Brashear, Brunswick, GA Matthew Bryant, Memphis, TN Christopher Carucci, Boston, MA Jennifer Crow, Mundelein, IL Deborah Dilloway, Fairway, KS Tracy Durish, Clarion, PA Andrew Gelman, Westbrook, ME John Getty, Bozeman, MT Molly Godar, Rochester, IL John Gordon, Weidman, MI Paul Halfpop, Hardin, MT Martin Hudson, Hannacroix, NY Jill Hughes-Koszarek, Hartland, WI Louise Jones, Naperville, IL Tim King, Glide, OR Jeffrey Klipstein, Estes Park, CO Sara Koffarnus, Westminster, CO Jonell Prather, Missoula, MT Charles Reade, Sacramento, CA

Laura Ritter, Royal Oak, MI Franz Ruiz, El Cajon, CA Kristina Sappenfield, Eagle, CO Eric Sawtelle, Whitefish, MT Donald Selusnik, Delavan, WI Lisa Skilang, Marion, IA Linda Smith, Missoula, MT Kathryn Solberg, Sisseton, SD Jennifer Swan, Sherman Oaks, CA Angela Swanson, Rockford, IL Nathan Whelham, Bothell, WA Laura Wick, Palmer, AK Kathleen Woldtvedt, Cut Bank, MT Jaime Wolfe, Saginaw, MN Wendy Worrall, Abbotsford, BC June Wozny, Elkhorn, WI

2009 Graduates

Phillip Ammann, Wilmot, SD Jenni Vee Andersen, Helena, MT John Bell, Bozeman, MT Callan Bentley, Annandale, VA Carolyn Clark Bielser, Dillon, MT Terry Carlsen, Walla Walla, WA Aimee J. Chlebnik, W. Yellowstone, MT Shelly Chrismon, Yoakum, TX Christopher Cimino, Citrus Heights, CA Brett Damerow, Hutchinson, MN Natalie L. Davis, Livingston, MT Meg DeAntoni, San Diego, CA Jenny Derks-Anderson, Eugene, OR Thelma Devlin, Dededo, Guam Lillian Edmon, Kamuela, HI Ayn Eklund, Webster City, IA Steve Eversoll, Kalispell, MT Richard Fillerup, Driggs, ID Thom Flinders, Holderness, NH Elizabeth Fracchia, Glen Falls, NY Doug Frost, Salen, NJ Stacie Fry, Buenos Aires, Argentina Victoria R. Ginsburg, Sandy, UT Rob Greenberg, Chapel Hill, SC Jenny S. Heckathorn, Valdez, AK Patti Jelinek, Memphis, TN Suzanna Johnson, Auburn, CA Carlie J. Jonas, Renton, WA Michael E. Joyce III, Oak Bluffs, MA Leslie C. Karpiak, Des Plaines, IL Daniel Kinsey, Harlem, MT Ron Koczaja, Fairbanks, AK Lucy C. Karwoski Korpi, Holland, MI Anton Kortenkamp, Monticello, MN Thomas Kozikowski, Frostburg, MD Kelly Kramer, DeForest, WI Karen Kuchar, Naperville, IL Jason Laducer, Belcourt, ND Lon LaGrave, Baumholder, Germany Am L. Manhart, Jackson, WY

Scott D. Masarik, Brussels, WI Jean Philip Mathot, Irvine, CA Rory Newcomb, Tallinn, Estonia Lacy Noble, Three Forks, MT Loralyn O'Kief, Valentine, NE Lau Olsen, Sao Paulo, Brazil Leslie Pierce, Barrow, AK Mike Plautz, Missoula, MT Ronald P. Ramsey, Sewanee, TN Julie Kallio Robison, Deerfield, MA Laurie K. Rugemer, Bozeman, MT Todd M. Samson, East Helena, MT Bruce Alexander Sinclair, Bermuda Cathy Stierman, Dubuque, IA Steve Sundberg, Moline, IL Nathan Talafuse, Billings, MT Lucinda Fisher Talsma, Sheldon, IA Howard Tenenbaum, La Jolla, CA Tana Verzuh, Durango, CO Joe Le Weaver, Marion, NC Patricia J. Weaver, Halifax, PA Lisa M. Weeks, Eagle Lake, FL Christine West, Haugan, MT Erin Wilson, Honolulu, HI Joe Wright, Hollis, NH

2010 Graduates

Aimee Flavin Artigues, Crested Butte, CO James T. Ausprey, East Machias, ME Carol Jane Baker, Billings, MT Cheryl A. Barrientos, Denville, NJ Susan H. Barton, Big Sky, MT Robert David Baughman, Moss Point, MS Randall Jay Berndt, Rosholt, WI Susan Berrend, Salt Lake City, UT Allen R. Bone, Pablo, MT Christy Bone, Missoula, MT Larene Bowen, Lame Deer, MT Donna Brayfield, Springfield, IL Linda Briggeman, Missoula, MT Kelly P. Broderick, Bradenton, FL Rebecca B. Burg, Dixon, MT Katherine Burke, Helena, MT Kara Ann Burrous, Sugar Land, TX Anjali Devi Chandran, Napa, CA Erika Christianson, Bozeman, MT Jann C. Clouse, Missoula, MT Stanley B. Covington, Beijing, China Michelle A. Cregger, Chewelah, WA Carrie Jo Dagg, Fairfield, IL Quinn Michael Daily, Carbondale, CO Bonnie E. Daley, San Francisco, CA Ann Dannenberg, Newton, MA Tracy Ann Dickerson, Corvallis, MT Aaron Eling, Muskegon, MI Stacey M. Ellis, Polson, MT Dawn Nicole Estrella, Union City, CA Janet C. Fenker, San Jose, CA Devon M. Flamm, Hardin, MT

Michael J. Flamm, Hardin, MT Emily M. Ford, Boyce, VA Dennis Fulkerson, Lisbon, IA Joshua Gates, Wilmington, DE Cherri Gerber, Kelowna, British Columbia Tim Germeraad, Flossmoor, IL Lisa C. Green, Boyce, VA Paula J. Groeneveld, Harrisburg, SD Jean Marie Kron Hagler, Savage, MT Stephanie A. Hall, Rosebud, MT Lisa Dawn Hart, Crested Butte, CO Amy L. Haverland, Peosta, IA Angie Hewitt, Bozeman, MT Kathy Pickens Hirst, Ashland, MT Seth A. Hodges, St. Michaels, AZ Miranda Hollow, Charlo, MT Katie E. Hubbell, Naperville, IL Deb L. Hughes, Andalusia, AL Dora M. Hugs, Pryor, MT Cheryl Hugs, Pryor, MT Thomas A. Ippolito, Coatesville, PA Cathy L. Jamison, Wake Forest, NC Sara Elizabeth Jay, Bozeman, MT Pamela Kaatz, Sechelt, British Columbia Margaret Kane, Prescott, AZ Renee Kelch, Ronan, MT Bonnie J. Keller, Blacksburg, VA Rose Kent, South Royalton, VT Lorna Sue Lange, 29 Palms, CA Erin Kelly Lynch, Bozeman, MT Mary L. Maier, Missoula, MT Patrice Malamis, Rochester, IL Dan McGee, Belt, MT Amanda McGill, Clinton, MT Stuart Miles, Asheville, NC Tami A. Morrison, Polson, MT Mary K. Osman, Newark, DE Gerald Ott, Elverson, PA April Peterson, North Bay, Ontario, Canada Alfred T. Poirier Jr., Dover, NH Sarah S. Poletto, Naperville, IL Anne Powers, Kingston, Ontario, Canada Page-Marie Price, Lolo, MT Holly Prull, Bend, OR Tina L. Raeder van Stirum, Gonzales, CA Nancy Farrington Reid, Natick, MA Paul E. Robinson, Valhalla, NY Susan R. Rolke, Rindge, NH Melinda K. Rothschild, Parker, CO Jeff Salter, Salt Lake City, UT Scott Schaefer, Weston, WI Michael A. Schoenborn, Seattle, WA Catherine Schuck, Missoula, MT Debra Lea Schwake, Lodge Grass, MT Justin L. Smith, Coatesville, PA Karen M. Smith, Lame Deer, MT Nichole Spindler, Bradford, PA Jennifer Stadum, Bozeman, MT James Stuart, Bozeman, MT Bryna Thomson, Dallas, TX

Bill Thornburgh, Carmel, IN Charlotte Waters, Vancouver, WA Michelle Weber, Dubuque, IA Nancy Wells, Saltsburg, PA Heide Westwood, Hardin, MT Sue White, Derby, KS Gail Whiteman, Bozeman, MT Deanna Rose Zerbe, Lodge Grass, MT

2011 Graduates

Melanie S. Acker, Ulysses, PA Patti Rae Bartlett, Seeley Lake, MT Jennifer Moore Bernstein, Portland, OR Lindsey Paige Bowser, Middleburg, VA Brennan Brockbank, Fairfax, CA Deborah Brown, Nyssa, OR Nancy Lee Bryant, Burlington, NC David Buck, Dixfield, ME Joel Burgener, Lima, MT Sandra J. Climenhaga, Albion, NY Sarah Marie Conner, Kalispell, MT Joann C. Dayton-Wolf, Kingston, NY Joe DeLuca, Almere, Netherlands Joyce Dooley, Bentonville, AR Katherine Echazarreta, Vienna, VA Kendra Eneroth, Spokane, WA Jonathan R. Ernst, Wentzville, MO Eric Esby, West Hills, CA Lane A. Fischman, Antioch, IL Brandon Fritz, Williamsburg, IA Jeremy Fuller, Wolfeboro, NH Sheri Gates, Nagykovacsi, Hungary Ashley Gillespie, East Helena, MT Tanya Gordon, Boise, ID Amy M. Gramling, Hillsdale, MT Heather M. Grant, Ojai, CA Christopher Green, Painesville, OH Christopher Gunderson, Absarokee, MT Hadley Hentschel, Carbondale, CO Susanne L. Hokkanen, Matteson, IL Megan Hopkins, Naperville, IL Daryl Allan Holst, Bangkok, Thailand Jasper Howell, Afton, WY Cheryl A. Hudson, Tifton, GA An'juli Johnston, Billings, MT Darren Kellerby, Anchorage, AK Marty King, Legrand, IA Shannon Knodel, Belgrade, MT JoDe Knutson-Person, Bismarck, ND Jacob L. Lame, Colorado Springs, CO Maya A. Lampic, Chicago, IL Karen L. Lund, Huntingdon, England Kathryn Madden, Beaufort, SC Margaret K. Magonigle, Hana, HI Danny Mattern, El Dorado, KS Emily McKenna, Belding, MI Christian R. Mills, Rawlins, WY Amiee L. Modic, Katy, TX

Christopher G. Monsour, Tiffin, OH Richard Montoya, Eureka, MT Erik Nickerson, Boulder, CO Cameron Novak, Fredericksburg, VA Aaron Olmanson, Golden Valley, MN Bradley Pederson, Belle Plaine, MN Timothy D. Percoski, Bloomfield, CT Janet E. Perry, Ashland, ME Alanna Piccillo, Palisade, CO Paul Pierre, Nassau, Bahamas Erin Quintia, Columbia Falls, MT Jonathan C. Reveal, Nashville, TN Mary Seabrook Ritter, Bethleham, PA Seth Robertson, Renton, WA Peter Rust, Wilmington, DE Robin Scardino, Hong Kong, China Jessica F. Schultz, Culdesac, ID Ralph E. Spraker, Jr., Columbia, SC Marcie Steen, Mount Vernon, OH Joyce Striclyn, Terre Haute, IN Nancy Hoggard Talley, Tarboro, NC Shaun Terry, Lovelock, NV Katherine Theobald, Alexandria, VA Marta Toran, Boone, NC Jeanne Torske, Broadus, MT Audrey Urista, Winston, OR Shari F. Ward, Ashland, ME Tom Wellnitz, Johns Creek, GA Matthew Wigglesworth, Boise, ID Jennifer Williams, Honolulu, HI Andrea Gissing Yordan, Philadelphia, PA

2012 Graduates

Jessica Anderson, Deer Lodge, MT Tanya M. Anderson, Hardin, MT Tom Anderson, Twin Valley, MN Donald James Asbury, Lame Deer, MT Kathy Aune, Frenchtown, MT Kristian Basaraba, Sherwood Park, Alberta Luke Beall, Fairview, PA Adam Bohach, Clinton, IA Jason Boss, Bellflower, CA Angie Brist, Traer, IA Jodi L. Brokaw, Hardin, MT Robin A. Cameron, Jackson, WY Lorilyn A. Chapman, Livingston, MT Katherine Chesnutt, Boone, NC Joanna Chierici, East Windsor, NJ David Chimo, Corvallis, MT Natasha L. Cleveland, Frederick, MD Erin Colfax, Morristown, NJ Jordan Lacy Cook, Lakewood, CO Matthew Cornelius, Lingle, WY Jennifer Courtney, Mason, OH Karla B. Cramer, Florence, MT Tom Davies, Weston, WI Kristina Davis, Potomac, MT Jeffrey Edwin DeGlopper, Milwaukee, WI Joshua Dennis, Dover, PA

Kim Devore, Manhattan, MT Heather G. S. Dietz, Regina, Canada Kaye Ebelt, Missoula, MT Nathan R. Fairchild, Redding, CA Jessica Felchle, Billings, MT Amy Flindt, Roseville, CA Ryan Foley, Great Falls, MT Rebecca Fulk, Steamboat Springs, CO Jason Getz, Woodberry Forest, VA Kellina Gilbreth, Colorado Springs, CO Vanessa Nashee Green, Lawrenceburg, TN Lori Haack, Kremmling, CO Charlotte Hagerman, Eagar, AZ Shawna Halsey, Billings, MT Angela J. Hammang, Dillon, MT Michelle Hammond, Lake Worth, FL Jeremy Harder, Big Sky, MT Yvette Strandell Hart, Hastings, NE Annie Hesterman, Westminster, CO Brian Holtzhafer, Orefield, PA Brandon Honzel, Missoula, MT Angie Hopwood, Superior, MT Laura Hovland, Bozeman, MT Jessica Hughes, Arlee, MT Douglas Martin Janeczko, Goshen, NY Jennifer Jones, Ogallala, NE Alan Kalf, Lexington, MA Mark Kellogg, Camdenton, MO Batya Kinsberg, Englewood, NJ Leah M. Knickerbocker, Bozeman, MT Karyn Ann Kretschmer, Genoa City, WI Charla Lake, Ronan, MT Mary Larson, Polson, MT Ann Leach, Leavenworth, WA Candice M. Lommen, Maple Valley, WA Hilary R. Lozar, Ronan, MT Hermes Lynn, Livingston, MT Jill D. Mahoney, Fairfax, VA Sibley A. Malee-Ligas, Arlee, MT Kasey Marks, Missoula, MT Cara Marlowe, Dubai, United Arab Emirates Joy Mayer, Green Bay, WI Colleen Marie McDaniel, Houston, TX Miles McGeehan, Manhattan, MT Randy Metzger, Orwigsburg, PA Robert Moyer, Bristol, PA Susannah Spradlin Murphy, Frenchtown, MT Jennifer Narimatsu, Bremerton, WA Kimberley Orr, Lethbridge, Alberta, Canada Margaret Louise O'Sullivan, Alberta, Canada Alisha Pablo, Hot Springs, MT April Peterson, North Bay, Ontario Sadie Peterson, Silver Spring, MD Melinda Reed, Florence, MT Marcie Reuer, Grande Cache, Alberta, Canada Joe M. Ruffatto, Great Falls, MT Marco Santarelli, New Fairfield, CT Michele Schaub, Crow Agency, MT Anne Farley Schoeffler, Hudson, OH Rachel Screnar, Bozeman, MT Matthew J. Shargel, Walnut Creek, CA

Jennifer Sherburn, Hesperia, MI Aaron Shotts, Mechanicsburg, PA Carolyn Slagle, East Helena, MT LaCee Small, Ashland, MT Dale Spady, Westlake Village, CA Stephanie Statema, Park Ridge, IL Lauren Stepro, Norfolk, VA Lisa Russell Stevens, Crow Agency, MT Reba K. Strom, Hardin, MT Melissa Anne Sullivan, Carlsbad, CA Clinton Swartz, Middleburg, PA Robin Tillman, Cranbrook, Canada Brandy L. Thrasher, Missoula, MT Lizabeth A. Townsend, East Helena, MT Molly Underwood, Redwood City, CA Jay Walls, British Columbia, Canada Tylene M. Walters, Manhattan, MT Paula Wang, Poplar Island, MD Lee Weldon, Missoula, MT Rachel M. White, Belgrade, MT Wendy D. Whitmer, Spokane, WA Beth Workman, Bainbridge, OH Rachel Lee Zupke, Seattle, WA

2013 Graduates

Georgia Alvarez, Vancouver, WA Kelly Arnold, Clarksville, TN Suzanna Barnhart, La Crosse, WI David Bates, San Francisco, CA Charles Benson, Bellevue, NE John Bishel, Port Allegany, PA Dana Blomquist, Helena MT Andrew Bright, Gabrills, MD Tina Brothers-Tillinger, Helena, MT Jennifer Bruns, Juliaetta, ID Joe Clark, Carson City, NV Carrie Clement, Helena, MT Judith Coats, Eldorado Del Mar, CA Crystal Cornwell, Ronan, MT Brooklyne Coulter, Strasburg, CO Joe Crider, Helena, MT Emily Currier, Helena, MT Janeen Curtis, Darby, MT Jennifer Curtis, Rockport, ME James Davies, Ridgefield, WA Caleb Dorsey, Loyalton, CA Pamela Dresher, Culver City, CA Amy Dushane, Yuba City, CA Lori Egan, Thornton, CO Holly Faris, Hamilton, MT Laura Feldkamp, Wichita, KS Tyler Ferebee, Pawnee City, NE Jason George, Notus, ID Dale Glass, Potomac, MD

Shannon Greco, Princeton, NJ Lance Gerow, Riyadh, Saudi Arabia Rachel Grey, Winnsboro, LA Taylor Green, Red Lion, PA Michael Greenhoe, Kandern, Germany Courtney Harrell, Peyton, CO Michael Helseth, Yakima, WA Robin Henrichs. Mc Cook. NE Benjamin Heyde, British Columbia Alice Hinck, Broadus, MT Jennifer Hood, Dayton, TN Jeanna Jasperson, Montrose, CO Beverly Jaworski, Burtonsville, MD Tamara Jendro, Helena, MT Susan Johnson, Southbury, CT Shari Juroszek, Bozeman, MT Kevin Kenealy, Nevada, IA Linda Kocian, Elk Grove Village, IL Amanda Kozak, Ashland, OH Scott Lannen, Phoenix, AZ Robert Lee, Shelby, MT Brett Lehner, APO, CA Heather Leiberg, Helena, MT Martha Lord, Hamilton, MT Doug Lymer, Houston, TX Dalton McCurdy, Fairfield, CT Julie McDonnell, Oak Park IL Heather McWhorter, Las Vegas, NV Murry Metge, Great Falls, MT Ashley Milbrandt, Helena, MT Julie Morris, Peotone, IL John Nilsen, Dhahran, Saudi Arabia Laura Patch, Brevard, NC Brian Phillips, Rabun, GA Dorcella Plain Bull, Crow Agency, MT Mary Ragusa, Bloomingdale, IL Jayanthi Ramakrishna, Chennai, India Chris Reidburn, Watertown, SD Stacey Rhodes, Waynesville, MO Andrea Robbins, Buhl, IN Christopher Rocheleau, Southington, CT Pablo Rojo, Brooksville, FL Sally Sanders, Tallahassee, FL Josie Shern, Bozeman, MT Charles Shields, Greencastle, ID Judith Silva, Franklin, ME Michelle Slaughter, Lincoln, CA Matthew Sloan, Glenview, IL Adam Smith, Sioux Falls, SD Charles Strobino, APO, Germany Angela Swank, Livermore, CA Chris Swiden, Watertown, SD Sarah Tabor, Bozeman, MT Kenneth Taylor, Bozeman, MT Carol Teintze, Bozeman, MT

James Glynn, Chicago, IL

Jacob Thompson-Krug, Omaha, NE
Kristina Troge, Doral, FL
Dina Tucker, Austin, TX
Jennifer Vaughn, Houston, TX
Carrie Wager, Medina, OH
Cindy Watson Pottebaum, Winterset, IA
Mary Ann Watt, Concord, NH
Irene Wilcox, Clearwater, MN
Danielle Wilczak, Clearwater, MN
Suzanne Wilson, Olympia, WA

2014 Graduates

Joshua Abernethy, Asheboro, NC Deanna Bailey, Huntington, VT Mariann Bernard, Escondido, CA Marcia Blome, Omaha, NE James P. Bratka, Gahanna, OH Dean Brown, Medicine Hat, Alberta Cameron Burns, Spokane, WA Joshua Caditz, Carpenteria, CA Irene Catlin, Portland, OR Matthew Clay, Webb City, MO Kara Lee Coates, Spring Creek, NV Justi Crofutt, Pinedale, WY Hank Davis, Asheville, NC Coreen Ann Dingler, Lufkin, TX Rebecca Love, Dobson Kinsman, OH David Dooling Jr., Alamogordo, NM Daniel DuBrow, Chicago, IL Chance Duncan, Dardanelle, AR Camilla Dusenberry, Helena, MT Stephanie Fields, Ocean City, NJ Shari Generaux, Oakland, CA Elaine Gibbs, Valrico, FL Sara Danielle, Grotbo Helena, MT Lily Guajardo, Cedar Park, TX Jacquelyn Haas, West Bend, WY Jennifer Heisler, Kent, OH Kyle Herdina, Winona, MN Analea Hronek, Red Lodge, MT Angie Jenkins, Independence, IA Heidi Kirsten Jessen, Yuma, AZ Christine Jones, Vancouver, WA Alecia Jongeward, Bozeman, MT Carisa E. Ketchen, Kalispell, MT Katherine Koessler, Maplewood, MN Terina Konrad, Heyburn, ID Chris Koper, Koper Reading, PA Marka Latif, Bozeman, MT Scott Lilley, New Canaan, CT Tanya Long, El Cajon, CA Quincie R. Lords, Belt, MT Nicolai Love Jackson, MO Lisa Lundgren Gainesville, FL Robert Lynch Edgewater Park, NJ

Logan D. Mannix, Helena, MT Krista Martens, West Glacier, MT Matthew McClellan, Lake Charles, LA Doralee McCormick, Cincinnati, OH Ashley McGrath, Helena, MT Casey S. McHugh, Missoula, MT Candace McMullan, Fishers, IN Dawn Mercer Turner, Huntsville, AL Mark H. Meredith, Dardanelle, AR Mary Mingels, Somerset, ME Heather Mitchell, Houlton, ME Stephen Mohr, Austintown, OH Jeffrey Noblejas, Oakland, CA Eric Todd Ojala, Lolo, MT Sherry Otruba, Roanoke, VA Kal Pokley, Port Austin, MI Michael Poser, Hobson, MT Lynn Powers, Bozeman, MT Katie Redmond, Chicago, IL Randy Zane Rowland, Sheridan, WY Pamela J. Schaefer, Lake Hiawatha, NJ Christina Anne Scott, Gold Bar, WA Kaylee Christine Shaw, Kalispell, MT Ahmed Shawli, Bozeman, MT Carol Lee Smith, Van Alstyne, TX Jennifer A Smith, Colorado Springs, CO Garold Sumner, River Falls, WI Michael H. Tang, Irvine, CA Melissa Thompson-Krug, Blue Eye, MO LeAnn Thongvanh, Des Moines, IA Rachel Tinkler, New Berlin, WI Donna Raquel Tully, Kanéohe, HI Jessica Radl Vasquez, Cedar Rapids, IA Christina L. Wallace, Thornfield, MO Jocelyn Wells, St. John, New Brunswick, CA Clinton Whitmer, Poplar, MT

2015 Graduates

Kellen Alger, Cut Bank, MT Jeremy Barcus, Corvallis, MT Carli Barnes, Vancouver, WA Daniel Betts, Bankok, Thailand Patricia Brandenburger, Walden, CO Jerald Brunt, Bozeman, MT Kyle Casper, New Stuyahok, AK Pamela Christianson, Great Falls, MT Kellie Clinger, Freedom, WY Kristin Combs, Victor, ID Michelle Davis, Saratoga Springs, UT Kisha Delain, Fridley, MN Alyx Demers, Idaho Falls, ID Emily Diaz-Chard, Vineland, NJ Gregory Dyk, Edgerton, MN Jennifer Edwards, Casper, WY Ritu Gandhi, Houston, TX Shifra Gassner, Bettendorf, IA Tassay Gillespie, Lebanon, OR

Kelly Goodpaster, Fayetteville, AR Stephanie Guilmet, Blairstown, NJ Matthew Haack, Bear, DE Michael Haiderer, Saginaw, MI Lindsay Hall, San Francisco, CA Andrew Heller, Wautoma, WI Sharon Heyer, Forest Lake, MN Jennifer Hood, Dayton, TN Carrie Howell, Chattanooga, TN Jason Hults, Villisca, IA William Iliff, Sacramento, CA Thomas Jurczak, Claremont, CA Kendra Kanduch, Phillipsburg, MT Jolene Kayser, Black Hawk, SD Leah Anne Key, Huntersville, NC Timothy Klavon, Pennsburg, PA Joshua Koo, Mount Prospect, IL Brooke Laundon, Brooklyn, NY Martha Lindemann, Manassas, VA Jennifer Markham, Franklin, MA Liane McGillen, Washington, DC Janine Melillo, Cortlandt manor, NY Stacey Mowchan, Newington, CT Joseph Muise, New Westminster, Canada Chrispus Mwapea, Houston, TX Carol Myers, Pensacola, FL Spencer Nedved, Vancouver, WA Thomas O'Leary, Eureka, MO Jake Otto, Colorado Springs, CO Dawn Peterson, Gricignano di Aversa, CE, Italy Mark Pfeifer, North Battlefield, SK, Canada Caryn Purcell, Ridgefield, CT Annie Reichelt, Idaho Falls, ID Heather Renyck, Olean, NY Brian Staggs, East Grand Rapids, MI Andrew Stattel, Chestnut Hill, MA Stephanie Stender, Sheridan, WY Jennifer Temple, Glendive, MT Johannes Thum, Ketchum, ID Jerald Touchstone, Eagle, ID Amelia Vandehey, Hillsboro, OR Adam VanZee, Bozeman, MT D. Matthew White, Cookeville, TN Lisa Williams, Faifax, VA Stacey Zaback, Corvallis, OR

2016 Graduates

Anthony Altiere, Duluth, MN Shauna Baron, Gardner, MT Sarah Bauer, Moses Lake, WA Tracey Bidwell, Valley Springs, CA Nathan Boegler, Naples, Italy Megan Burgess, Alexandria, VA Martha Byrd, Atlanta, GA Ryan Call, Olathe, KS Stephen Cannici, Narragansett, RI Amy Chase, Lewiston, ID Samuel Cohen, Dallastown, PA Alyson Darconte, Milesburg, PA Allan Dinglasan, Markham, ON Alexandra Disney, Holderness, NH Dana Donlon, Blairstown, NJ Robert Ellenbecker, Missoula, MT Ana Elliott, Mesa, AZ Andrew Fiala, Downers Grove, IL Matthew Fisher, Great Falls, MT Kimberly Forsythe, Centre Hall, PA Justine Fox, Madison, WI Andrew Friedlund, Lancaster, PA Kathryn Gangel, Jacobstown, NJ Jason Garver, Bozeman, MT Richard Good, Leola, PA Jacqueline Hall, Olympia, WA Ryan Harvey, Kelowna, BC Ruth Hutson, Westmoreland, KS Bryan Idleman, Gilbert, AZ Ange Jones, Saint George, KS Patsy Jones, Chandler, AZ Ann Knight, Katy, TX Jennifer Konopacki, Twin Bridges, MT Henry Lacey, Littleton, CO Renee Lauterbach, New Berlin, WI Daniel Leavell, San Diego, CA Joseph Levitt, Newton, NH Amy Listenik, Jeffersonville, VT Amber Lloyd, Great Falls, MT Margaret Lowry-Brock, Russellville, AR Deborah Mansour, Indianapolis, IN Angela Marshall, Washington, DC Allison McClain, Philadelphia, PA Keith McKinniss, Vinton, OH Steven Merriman, Chicago Ridge, IL Leslie Moncur, Atlanta, GA Mary Noel, Colstrip, MT Steven O'Neill, Huntingtown, MD Laura Ouborg, Yosemite, CA Christina Pavlovich, Livingston, MT JoAnne Phillips, Stoughton, WI Jordan Robinson, Victor, ID Alison Rockwell, Boulder, CO Tina Rogers, Woodward, OK Lisa Rossana, Downingtown, PA Jessica Rowell, Houston, TX Todd Samet, Petaluma, CA Rebecca Schumacher, Bourbonnais, IL Andrew Senkowski, Portland, OR Christopher Shaw, Sheridan, WY Anna Shearer, Townsend, MT Bridget Sparks, Cincinnati, OH William Sparks, Sylva, NC William Stockton, Lolo, MT Taryn Surabian, Foxboro, MA Charles Swafford, Cleveland, TN Heather Swanson, Austin, TX Martin Tawil, Cape Coral, FL Kristin Tesiny, Valencia, CA

Annie Tete, New Orleans, LA
Alex Tisch, Woodberry Forrest, VA
Jared Torgerson, Duchesne, UT
Linda Townley, Annapolis, MD
Sarah Venturi, Wawaka, IN
Emily Vercoe, Laramie, WY
Kristin Waverka, Flower Mound, TX
Julie Welde (Soulliard), Mount Holly, NJ
John Wilkie, Anchorage, AK
David Wilson, Wibraham, MA
Lynda Wright, Smiths Station, AL
Melissa Yourey, Pottsville, PA

Graduates 2017

Harrison Aakre, Alexandria, MN Lily Apedaile, Missoula, MT Meghan Azzaro, West Milford, NJ Amelia Bagheri, Placentia, CA Kristina Bandziulis, Palmdale, CA Samantha Berg, St. Paul, MN Meridith Berghauer, Milwaukee, WI James Bertin, Lame Deer, MT Lenora Bostic, Thurman, OH Katherine Capp, Bozeman, MT Samantha Carney, Pittsburgh, PA Derek Chase, Hickory, NC Jessica Christman, Wyomissing, PA Jill Cleveland, Columbia, MD Andrew Cochrane, McCall, ID Christopher Collins, Morganton, NC Johnnie Cornett, Davenport, IA Joseph Day Rider, Richey, MT Michelle Dodge, Wolfeboro, NH Joseph L Doherty, Canaan, NH Alvaro Door, Lima, Peru Audrey Duncan, Duluth, MN Alison Dupuis, Lake Arthur, LA Ana Elliot, Page, AZ Sandra Essman, Taylor, NE Anna Farrell, Burns, WY Janelle George, Notus, ID Craig Gingerich, Boise, ID Elizabeth Gottlieb, San Rafael, CA Bridgette Gunn, Miami, FL Vanessa Haflich, Missoula, MT Abigail Helberg-Moffitt, Black Mtn, NC Isabel Heredia, Wallington, NJ Bryan Hirschman, Essex, VT Sara Holloway, McKinney, TX Rita Hubbs, Franklin, NC April Idar, Golden, CO Carla Johns, Fort Collins, CO David Johnson, Hardwick, VT Aaron Keller, Brunswick, ME Rodney Kennedy, Casper, WY Steven Knowles, Baileyville, ME Sara Kobilka, Tucson, AZ

Veeraiah Kummari, Oberusel, Germany Zoe Lamm, Spring Grove, MN Samantha Littlejohn, San Francisco, CA Quinten Loch, Chicago, IL Robert Lukens, Northwood, ND Joseph Madsen, Calgary, Alberta Diane Martin, Dillon, MT Jamie Morton, Orofino, ID Jenna Noble, Lakewood, CO Terri Olix, Mentor, OH Cindee Parker, Belgrade, MT Catherine Pascual, Cerritos, CA Kayla Robinson, Denver, CO Lisa Rouwenhorst, Sarasota, FL Guy Savastano, Independence, OH Catherine Schuman, Ferndale, WA Nicole Sedgeley, Golden, CO Michael Shell, Great Falls, MT Jeretta Shoemaker, Fruitland, ID Amy Smith, Battle Creek, MI Hannah Smith, Bellingham, WA Ryan Soto, San Diego, CA Benjamin Spicer, Pittsburgh, PA Lori Stanton, Redmond, WA Kimberly Stewart, Manteca, CA Amanda Stone, Cuyahoga Falls, OH Miranda Suvak, Tulsa, OK Crista Tiboldo, Teaneck, NJ Erik Tietyen, Green Bay, WI Johanna Traut, Bomoseen, VT Brennan Van Loo, Bow, WA Allison Weeldreyer, Sioux Falls, SD Jacob Whalen, Montrose, CA Elin Wilson, Montrose, CO Cynthia Wojtaszek, Oak Lawn, IL Simone Wong, Williamstown, NJ

Graduates 2018

Akylay Baimatova, Davie, FL Cheryl Brenner, Breckenridge, CO Stewart Brody, Rogersville, MI Linzy Browning, Bozeman, MT Tyler Buchan, Edmonton, Alberta Dava Butler, Waco, TX Daniel Calore, Watertown, CT Joshua Carroll, Greenville, SC Alison Charbonneau, St. Helens, OR Bruce Clark, Rochester, MN Christine Cleary, Mount Pleasant, SC Daniel Curran, DeForest, WI Jacquelyn Curran, Black Earth, WI Leslie Dalbey, Polson, MT Nathaniel Day, Vida, OR Jamie Doup, Galena, OH Samantha EichnerBoise, ID Derek Engebretson, Telluride, CO Cheri Giammo, Thornton, CO Miriam Harms, Geneva, NY

Tyler Hollow, Helena, MT Erik Johnson, Spring Green, WI Cameron Jones, Davis, CA Aaron Kessler, Buffalo, WY Kevin Kibala, Midland Park, NJ Kevin Knapik, Lockport, IL Jessica Kremer, Cedar Rapids, IA Beth Krogh, Ankeny, IA David Larson, Hardwick, MA Jena Machin, Port Orchard, WA Lewis Maday-Travis, Seattle, WA David Miller, Media, PA Bobbi Lynn Monroe, San Jose, CA Alison Montemurro, Lowell, MA Timothy Newman, El Cerrito, CA Chris Pelliccia, Easthampton, MA Claire Pichette, Helena, MT Clinton Pike, Bozeman, MT Scott Rahschulte, Lawrenceburg, IN Marcia Rapone, Atglen, PA Brianna Reilly, Edison, NJ Jocelyn Rice, Las Vegas, NV Austin Robbins, Kalispell, MT Linda Rost, Baker, MT Philip Sagissor, Crown Point, IN Laureen Savage, Spokane, WA Micaela Schaller, Maquoketa, IA Jeffrey Schwalm, Charlottesville, VA Kelsey Stuart (Norton), Hawthorne, CA Kelly Tierney (Kukes), Albany, NY Cathleen Tinder, San Francisco, CA Sue Tracy, Wrenshall, MN Chad Tschanz, Hartland, WI Katherine Twitchell, Telluraide, CO Elise Van Valkenburg, Whitefish, MT Ryan Wallace, Mount Vernon, WA Jessica Waller, Manson, IA Tamera Wyman, Poplar Grove, IL

Graduates 2019

Randi Bakken, Novato, CA Johannah Bearg, San Rafael, CA Katy Brown, Tucson, AZ Dylan Buehler, Lewiston, MT Liesel Christensen, Belgrade, MT Adrienna Decock, Lewistown, MT Tori Dille, Bozeman, MT Eric Etter, Parker, CO Heather Ferebee, Stuttgart, Germany Timothy Ferrigan, Houston, TX Christine Fitch, East Montpelier, VT Lorinda Forster, Mountain View, HI Chelsea Gibson, Carol Stream, IL Katie Goodwin, Jericho, VT Shaunna Holcomb, Mount Vernon, WA Zabrina Hollabaugh, Tulare, CA Charles Hopkins, Kinshasa, DR Congo Zach Hudson, Duluth, MN

Graduates 2019 - continued

Chris Jones, Walnut Creek, CA Pamela Joslyn, Muscatine, IA Laura Knochenhauer, Grand Haven, MI Joseph Koteles, Grafton, ND Paula Langager, Tacoma, WA Andrew Larsen, Toledo, OH Karin "Camille" Larsen, Big Fork, MT Nicholas Lauzon, Middlebury, CT Tara Lepore, Pomona, CA

Timothy Lopreito, Spring Lake Heights, NJ Kathy Mattus, Washington, IL

Sean McAndrews, Laurel, MT

Jeffrey McMahan, San Francisco, CA Carolyn Nealen, Three Forks, MT

Christopher Neurinski, Abu Dhabi, UAE

Leo Olson, Deforest, WI
Jennifer Owen, Manitowoc, WI
Karelyn Pohl, Cedar Rapids, IA
Destiny Polittle, Wentzville, MI
Deborah Price, Demotte, IN

Murvyn "Scott" Quinton, Alberta, Canada

Sean Rauen, Warrenville, IL
Blake Rider, Phoenix, AZ
Michael Ryerson, Blairstown, NJ
Alec Salway, Browning, MT
Michael Schultz, Lockport, IL
Michelle Selle, Meeker, CO
Lori Shaaban, Portland, OR

Fiona Smith Piasecki, Bellingham, WA Sarah Stitt, Colorado Springs, CO Elizabeth Suihkonen, Tower, MN Kara Tangedal, Helena, MT Tom Temple, Glendive, MT

Brian Theroux, Morristown, NJ Sarah Tierney, Farmington, CT

Matthew "Chuck" Tonelli, North Liberty, IA

Edmond Walsh, Idaho Falls, ID
Melony Walsh, Lancaster, CA
Megan Washburn, Cedar Rapids, IA
Marshall "Mark" Welch, Harrison, AR
Amanda Wolfe, Kent, WA

Jerilyn Wood, Chinook, MT Katrina Wunderlich, Mesa, AZ

Graduates 2020

Walayat Ali, Banan, Chongqing, PR China Adam Bavier, Missoula, MT Kaitlyn Bondy, Columbus, OH Meredith Brandon, Los Angeles, CA Christine Brasser, Larchwood, IA Crystal Davidson, Nampa, ID Elizabeth DeFries, Missoula, MT Aaron Devine, Ashland, MT Christopher Dolnik, San Marcos, CA Aaron Dose, Ankeny, IA Irene Doyle, Rifle, CO

Kevin Fox, Prague, Czech Republic

Neil Freeman, Mania, Philippines Clint Gibson, North Brunswick, NJ Michael Giordano, Boise, ID Kathryn Hoffmann, Greencastle, IN Randal Houseman, Holderness, NH Matthew Howard, Saint Paul, MN Erin Hunt, Helena, MT

Holly Ingwaldson, Billings, MT David Johnson, Warrenville, IL Trevor Johnson, Huntington Beach, CA Katherine Katsenes, Naperville, IL Erin Kirkpatrick, Rochester, MN Gregory Klauk, East Glacier Park, MT Vincente Lorenz, Russiaville, IN

Julie Metcalfe, Denver, CO Ariana Mindelzun, Palo Alto, CA Kevin Patrick, Marquette, KS Rachel Patton, Denver, CO

Kurt Peters, Stockbridge, GA Michelle Platt, Alamogordo, NM Thomas Quackenbush, Ojai, CA

Allyson Reamy, Columbia Falls, MT Kathryn Shaw, Everett, WA

Andrew Shulstad, Bozeman, MT Ben Swen, Lethbridge, Alberta, Canada Kathryn Uppendahl, Kirkland, WA

Hernando Velez, Bozeman, MT Mary Webb, Whitefish, MT Natalie Wieloch, Mosinee, WI

Joanna Wurst, Prescott, AZ

Graduates 2021

Chelsea Agee, Keene, NH
Greg Anderson, Eagle, CO
Marissa Beck, Eagle Mountain, UT
Alison Bowers, Alexandria, SD
Hailey Bull, Caldwell, ID
Tori Burmester, Caledonia, MN
Gabriel Calvi, Monkton, VT
Laura Camp, Courtland, VA
Carlan Campbell, Idaho Falls, ID

Ka Yan Christine Cheung, Hong Kong, China Caleb Cochrum, Columbia Falls, MT

Ryan Cordon, Saint Charles, IL Farrah Cooper, Houston, TX Sarah Davis, Palatine, IL

Kimberly Dean, Salt Lake City, UT Ben DiGiovanni, Glendale Heights, IL

Susie Dobkins, Billings, MT Briana Faxon, Poulsbo, WA Emily M. Hall, Waldoboro, ME Drake Haren, Spokane, WA

Kendia Clara-Emma Herrington, Clovis, CA

Joyce Hill, Chico, CA Mike Hill, Apex, NC

Michelle Housenga, Minneapolis, MN Lauren Huntington, Casper, WY Adam Kahan, Siem Reap, Cambodia Camas Kakuk, Helena, MT Emily Keegan, Sidney, MT Rodney A. Knowlton II, Lombard, IL Jamie MacDonald, Amesbury, MA William McDonnell, Abu Dhabi, UAE Dylan Nelson, Rigby, ID Elexa Rendla, Rockledge, FL Elizabeth Roxanne Ronquillo, Fresno, CA Alyssa Sandner, Mill Valley, CA Anna Seltzer, White Salmon, WA Stephanie Snouffer, Paola, KS LeeAnn Stangeland, Brockton, MT Amy Steele, Olympia, WA David Sussberg, Bozeman, MT McKenzie Weed, Centennial, CO Corlyn Wilkinson, Salem, OR

Emily Sarah Wise, Bremerton, WA

Graduates 2022

Vasilij Acic, Palatine, IL Willow Affleck, Missoula, MT Johnathan Allan, Snellville, GA April Andrews, Delta, OH Scott Andrews, DoDEA Jaime Augst, Wilsall, MT Katey Barber, Havre, MT Andrew Beck, Evanston, IL Courtney "CJ" Bell, Durham, NC Stacey Benson, Calgary, Alberta, Canada Robyn Brewer, Sparta, NJ Scott Carter, Nashville, TN Annelisa Cohen, Ojai, CA Shane Cullian, Delavan, WI Elizabeth Davidson, Clovis, CA Rachel Davis, Dubai, UAE Adelle Donohue, Missoula, MT Julie Ekhoff, Boise, ID Kelsey Ferguson, Sheridan, WY Sydney Finkbohner, Golden, CO Leslie Flores, New York, NY Dylan Gamache, Fitchburg, MA Veronica Graham, Belgrade, MT Katherine "Kate" Hodge, Bozeman, MT Katie Lessaris, Champaign, IL Jennifer Lifsitz, State College, PA Mercedes Lippert, Blairstown, NJ Jennifer Livesay, Odessa, TX Michael MacKenzie, Medicine Hat, Alberta David McCollough, Knox, PA Mitchell McEwen, Bradford, PA Carolyn McGlumphy, Chicago, IL Jennifer Nardiello, Butte, MT Mary Nelson, Clovis, CA Jessica Patton, Missoula, MT Jeanine Piatz, Ames, IA Marilyn Raming, Tempe, AZ Marissa Riordan, Whitefish Bay, WI Grace Roeder, Middletown, NJ

Graduates 2022 - continued

Jennifer DeBois, Orford, NH Natalie Ruppertsberger, Meriden, NH Nathan Dille, Aurora, IL Laura Sanches, Saratoga, WY Malia Groesbeck, Salt Lake City, UT Stephanie Seevers, Conifer, CO Carly Hammond, Malta, MT Cal Smith. Montezuma. IA Audra Hawkinson, Davenport, IA Luke Southard, Lansing, MI Stephanie Heinrich, San Diego, CA Anne Swentik, Missoula, MT Cassidy Huggins, Twin Falls, ID Sarah R. Templin, Oak Harbor, WA Sarah Huggins, Columbus, OH Sandra Ullyott, Calgary, Alberta, Canad Maeve Hughes, Browning, MT Jennifer Waddington, Lexington, KY Audrey Immonen, Arvada, CO Nicole Yamagiwa, Ventura, CA Melissa Lamb, Attleboro, MA Katy Hwang Zavesky, Hudson, MA Timothy Lies, Minneapolis, MN Libby C. Zimmerman, Kalispell, MT Nathan Loetz, Wien, Austria Tegan Mortimer, Rockville, MD

Graduates 2023

Jessica Myron, Allen, TX Claudia Andrade, Ronan, MT Aislee Olmstead, Colstrip, MT John Arnold, Davenport, IA Hannah Ostrander, Montoursville, PA Clarissa Bay, Silverton, OR Charles Pavlisich, Duluth, MN Brad Beckman, Shanghai, China Emily Pavlisich, Duluth, MN Christa Carson, Jackson, WY Jake Phillips, Saint Joseph, MO Sam Dixon, Missoula, MT Ranae Pincock, Mapleton, IL Gisela Dumm, Seattle, WA Patrice Rex, Meridian, ID Adam Feldbruegge, Madison, AL Renee Rose, Libby, MT Trier Forseth, Billings, MT Ryan Rozeboom, Sioux City, IA Brandon Furr, Cut Bank, MT Orianna Scherer-Wojahn, Cloquet, MN Michele Fields, Woodford, VA Izzy Schneyer, Aurora, CO Sue Huffman, Phoenix, AZ Benjamin Smith, North Liberty, IA Katrina Johnson, Salem, IL Monica Tomayer, Conrad, MT Shawn Kessler, San Diego, CA Jennifer Vandenberg, Livingston, MT Megan Leonard, Kingsport, TN Nancy Wear, Lompoc, CA Danny López, Kihei, HI

Julia Wente, Livingston, MT

Amanda Mello, Costal, CA Cal Wilkens, Aurora, CO Teresa Mobley, Valencia, CA Jenna Windjue, Devils Lake, ND Julia Morgan, Palatine, IL Joel Wright, Haeundae-gu South Korea Ashley Myers, Tokyo, Japan Angela Young, Uxbridge, MA Jordan Nuttall, Rexburg, ID Kari Roll, Robbinsdale, MN Katie Ryan, Eugene, OR Jennifer Schlobohm, Madison, WI Ken Sperling, Levittown, PA Beth Tsuha, Iwakuni, Japan Matthew Wenger, Belgrade, MT Elizabeth Wiles, Central Montana Amanda Wolfe, Columbia, MO Makala Woods, Denver, CO

Graduates 2024

Michael Barbaccia, Yuba City, CA Tressa Beauprez, Billings, MT Catherine Bergeron, Philadelphia, PA Erica Bertrand, Chatham, NH Jared Betz, Bozeman, MT Gabrielle Blakemore, SeaTac, WA Caroline Bottega, Monmouth Jct., NJ Chandler Bowen, Bozeman, MT Ioana Carter, Framingham, MA Megan Cleary, Manchester, NH Krista Cunningham, Billings, MT Jennifer DeBois, Orford, NH Nathan Dille, Aurora, IL Malia Groesbeck, Salt Lake City, UT Carly Hammond, Malta, MT Audra Hawkinson, Davenport, IA Stephanie Heinrich, San Diego, CA Cassidy Huggins, Twin Falls, ID Sarah Huggins, Columbus, OH Maeve Hughes, Browning, MT Audrey Immonen, Arvada, CO Melissa Lamb, Attleboro, MA Timothy Lies, Minneapolis, MN Nathan Loetz, Wien, Austria Tegan Mortimer, Rockville, MD Jessica Myron, Allen, TX Aislee Olmstead, Colstrip, MT Hannah Ostrander, Montoursville, PA Charles Pavlisich, Duluth, MN Emily Pavlisich, Duluth, MN Jake Phillips, Saint Joseph, MO Ranae Pincock, Mapleton, IL Patrice Rex, Meridian, ID Renee Rose, Libby, MT Ryan Rozeboom, Sioux City, IA Orianna Scherer-Wojahn, Cloquet, MN Izzy Schneyer, Aurora, CO Benjamin Smith, North Liberty, IA Monica Tomayer, Conrad, MT Jennifer Vandenberg, Livingston, MT Nancy Wear, Lompoc, CA

Julia Wente, Livingston, MT Cal Wilkens, Aurora, CO Jenna Windjue, Devils Lake, ND Joel Wright, Haeundae-gu South Korea Angela Young, Uxbridge, MA

Graduates 2025

Marcela Blanco, El Paso, TX Rachel Brown, Belgrade, MT Collin Buck, Kalispell, MT Elysia Burroughs, Plainfield, NH Andrea Clark, Taguig, Philippines Lauren Coffey, Salt Lake City, UT Jeffrey Cohen, South Orange, NJ Kevin Conroy, Watertown, CT Jackson Dinsmore, Kansas City, MO Mitchell Ehrman, Cincinnati, OH Rhiannon Fleming, Bozeman, MT Sandra Gibson, Boynton Beach, FL Rachael Gradwell, Manchester, PA Raymond Guest, Missoula, MT Matt Hopkins, Palatine, IL Tyler Hunt, Sandyston, NJ Nicole Katzaroff, Costa Mesa, CA Celeste Kenworthy, Phoenix, AZ Stephanie Kerr, Wolfeboro, NH Anna Le, Portland, OR Weston Manor, Carlsbad, CA Chad Martin, Oak Harbor, WA Rachel Martin, Zelienople, PA Braden Marum, Billings, MT Stephanie Milam-Edwards, Mesa, AZ Marli Ockander, Sioux Falls, SD Bradley O'Connell, Clinton, IA Austin O'hare, Grand Forks, ND Heather Pagano, Wayne, NJ Samantha Perry, Ceres, NY Aaron Petrie, Gallipolis, OH Kelsey Ravanis, Burlington, MA Iain Ridgway, Worcester, MA Kyle Roberts, Great Falls, MT Eric Ryburn, Richmond, TX Natalie Taranec, Almaty, Kazakhstan Mitch Tucker, Mount Prospect, IL Michelle Zarowny, Alberta, Canada