


4-2018

Faculty Achievements, April 2018

Otterbein University

Follow this and additional works at: <https://digitalcommons.otterbein.edu/achievements>

 Part of the [Educational Assessment, Evaluation, and Research Commons](#), and the [Scholarship of Teaching and Learning Commons](#)

Recommended Citation

Otterbein University, "Faculty Achievements, April 2018" (2018). *Faculty Achievement Reports*. 18.
<https://digitalcommons.otterbein.edu/achievements/18>

This Article is brought to you for free and open access by the Faculty Scholarship at Digital Commons @ Otterbein. It has been accepted for inclusion in Faculty Achievement Reports by an authorized administrator of Digital Commons @ Otterbein. For more information, please contact shickey@otterbein.edu.

Faculty Achievements, April 2018 Report

DEPARTMENT OF ACADEMIC AFFAIRS

PAUL S. EISENSTEIN, Dean, School of Arts and Sciences/Professor, Department of English
Books, Book Chapters, and Journal Articles (peer reviewed)

"The Sovereign Signifier: Agamben and the Nonhuman." *Lacan and the Nonhuman*. Eds. Gautam Basu Thakur and Jonathan Dickstein. New York: Palgrave Macmillan, 2018. 135-153.

KATHRYN M. PLANK, Interim Associate Vice President for Academic Affairs and Dean of University Programs/Director of the Center for Teaching and Learning/Associate Professor, Department of Education
Books, Book Chapters, and Journal Articles (peer reviewed)

Stains, M., Harshman, J., Barker, M. K., Chasteen, S. V., Cole, R., DeChenne-Peters, S. E., Eagan, M. K., Esson, J. M., Knight, J. K., Laski, F. A., Levis-Fitzgerald, M., Lee, C. J., Lo, S. M., McDonnell, L. M., McKay, T. A., Michelotti, N., Musgrove, A., Palmer, M. S., Plank, K. M., Rodela, T. M., Sanders, E. R., Schimpf, N. G., Schulte, P. M., Smith, M., Stetzer, M., Van Valkenburgh, B., Vinson, E., Weir, L. K., Wendel, P. J., Wheeler, L. B., Young, A. M. (2018). Anatomy of STEM teaching in American universities: A snapshot from a large-scale observation study. *Science* 359(6383), 1468-1470. DOI: 10.1126/science.aap8892.

BARBARA H. SCHAFFNER, Dean, School of Professional Studies and The Graduate School/Professor, Department of Nursing

Honors and Awards

Award for Outstanding Contributions in Reviewing from the *Journal of Pediatric Health Care* in cooperation with National Association of Pediatric Nurse Practitioners (NAPNAP).

Presentations and Posters

Evaluating interactive technology for an evolving case study on learning and satisfaction of graduate nursing students,

with M. Vogt, 7th Annual Nurse Education Conference (NETNEP), Banff, Alberta, Canada.

Service/Leadership in the Profession

Grant peer reviewer for Health Resources and Services Administration (HRSA-18-012) Nurse Education Practice, Quality and Retention-Registered Nurses in Primary Care, March 2018.

WENDY R. SHERMAN HECKLER, Interim Provost and Vice President for Academic Affairs/Professor, Department of Education

Honors and Awards

Columbus City Schools "Community Support" Honoree, February 13, 2018, East High School, Columbus, OH.

Service/Leadership in the Profession

Invited Presentation, March 2018.

"Ethnomethodological and conversation analytic approaches to studying learning in science." Physics 6820/8820, The Ohio State University, Columbus, OH.

Invited presentation, January 2018. "Faculty's role in the regional accreditation process." Ashland University Faculty Professional Development Retreat, Ashland, OH.

DEPARTMENT OF ART

NICHOLAS A. HILL, Professor

Artistic Exhibits and Performances

Series of large-scale prints (60" x 60") selected as one of 35 semi-finalists (chosen from 420 international artists) for the 92nd Annual International Juried Exhibition at the Print Center, Philadelphia, PA.

Honors and Awards

Awarded a three-week residency at the Chaap Printmaking Center in Vadodara, India.

Presentations and Posters

Presented a lecture and day-long studio workshop in alternative printmaking techniques at Jawahar Kala Kendra Arts Centre, Jaipur, Rajasthan, India.

Presented a three-day alternative printmaking workshop at Chaap Printmaking Studio for graduate art students from the College of

Art, University of Baroda, Vadodara, India, January 2018.

Presented a lecture and studio demonstration on photo-based intaglio printmaking to faculty and graduate students at the College of Art, University of Baroda, Vadodara, India, January 2018.

Offered two days of individual critiques for graduate art students at the College of Art, University of Baroda, Vadodara, India, January 2018.

Presented a lecture and demonstration on alternative printmaking techniques for professional artists at Kanoria Centre for the Arts, CEPT University (Center for Environmental Planning and Technology), Ahmedabad, Gujarat, India, January 2018.

JONATHAN D JOHNSON, Associate Professor
Artistic Exhibits and Performances

Ann Arbor Film Festival (Ann Arbor, MI):
Sabbatical project film selected for in-competition screening.

Tentacles Gallery (Bangkok, Thailand):
Sabbatical project book selected for "Bibliomania" international book arts exhibition.

Presentations and Posters

Invited portfolio reviewer at the national Society for Photographic Education conference in Philadelphia, PA.

DEPARTMENT OF BIOLOGY AND EARTH SCIENCE

ELIZABETH V. BERKELEY, Assistant Professor
Presentations and Posters

Hensman S. and E. V. Berkeley. The Rory Hensman Conservation and Research Unit (RHCRU): A multi-pronged local approach for sustaining healthy African Elephant populations. Zoos and Aquariums Committing to Conservation conference, Jacksonville, FL, 2018.

Wolfe B., Edes A., Seeley K., Proudfoot K., Berkeley E. and D. Crews. Allostatic load: quantifying chronic and long-term intermittent stress to improve health and

well-being in animals. American Association of Zoo Veterinarians, Dallas-Frisco, TX, 2017.

Berkeley, E.V. Quantifying the Glycemic Response to Different Diets in African Elephants. Elephant Managers Association, Columbus, OH, 2017.

Community Outreach/Service Learning

Research on African elephant nutrition featured on CNN International's "Inside Africa." The episode, titled "Saving elephants by crossing borders," debuted in 212 countries in February.

ANNA M. YOUNG, Associate Professor
Books, Book Chapters, and Journal Articles (peer reviewed)

Stains, M., Harshman, J., Barker, M. K., Chasteen, S. V., Cole, R., DeChenne-Peters, S. E., Eagan, M. K., Esson, J. M., Knight, J. K., Laski, F. A., Levis-Fitzgerald, M., Lee, C. J., Lo, S. M., McDonnell, L. M., McKay, T. A., Michelotti, N., Musgrove, A., Palmer, M. S., Plank, K. M., Rodela, T. M., Sanders, E. R., Schimpf, N. G., Schulte, P. M., Smith, M., Stetzer, M., Van Valkenburgh, B., Vinson, E., Weir, L. K., Wendel, P. J., Wheeler, L. B., Young, A. M. (2018). Anatomy of STEM teaching in American universities: A snapshot from a large-scale observation study. *Science* 359(6383), 1468-1470. DOI: 10.1126/science.aap8892.

External Grants and Fellowships-Primary Investigator

Eppley Foundation for Research Grant: \$12,020. Exploring Vocal Dialects in the Threatened Cape Parrot of South Africa as an Indicator of Taxonomic Distinction.

DEPARTMENT OF BUSINESS, ACCOUNTING AND ECONOMICS

YIYUAN LIU, Assistant Professor
Books, Book Chapters, and Journal Articles (peer reviewed)

Liu, Yiyuan and Michael A. Levin (2018), "A Progressive Approach to Teaching Analytics in the Marketing Curriculum." *Marketing Education Review*, Vol 28, Issue 1, 14-27.

DEPARTMENT OF CHEMISTRY

JOAN M. ESSON, Associate Professor

Books, Book Chapters, and Journal Articles (peer reviewed)

Esson, J. M., Scott, R., Hayes, C. J. (2018).

Chemistry and Art: Removal of Graffiti Ink from Paints Grounded in Real-Scenario.

Journal of Chemical Education. 95(3), 400-402. doi: 10.1021/acs.jchemed.7b00536.

Stains, M., Harshman, J., Barker, M. K., Chasteen, S. V., Cole, R., DeChenne-Peters, S. E., Eagan, M. K., Esson, J. M., Knight, J. K., Laski, F. A., Levis-Fitzgerald, M., Lee, C. J., Lo, S. M., McDonnell, L. M., McKay, T. A., Michelotti, N., Musgrove, A., Palmer, M. S., Plank, K. M, Rodela, T. M., Sanders, E. R., Schimpf, N. G., Schulte, P. M., Smith, M., Stetzer, M., Van Valkenburgh, B., Vinson, E., Weir, L, K., Wendel, P. J., Wheeler, L. B., Young, A. M. (2018). Anatomy of STEM teaching in American universities: A snapshot from a large-scale observation study. *Science* 359(6383), 1468-1470. DOI: 10.1126/science.aap8892.

Presentations and Posters

- *Marshall, M., Esson, J. M. Surface-enhanced Raman spectroscopy (SERS) analysis of Western African artifacts. 255th American Chemical Society National Meeting, New Orleans, LA, March 18-22, 2018.
 - *Norris, C. E., Esson, J. M. Characterization of a paper-based analytical device for low molecular weight and unfractionated heparin. 255th American Chemical Society National Meeting, New Orleans, LA, March 18-22, 2018.
 - *Tran, M. H., Esson, J. M. Chemical analysis of artistic and cultural heritage objects from Western Africa. 255th American Chemical Society National Meeting, New Orleans, LA, March 18-22, 2018.
 - *Isaac, E., *Liu, J., Grote, R., Johnston, D. H., Esson, J. M. Otterbein Student Chapter: Moving involvement off campus. 255th American Chemical Society National Meeting, New Orleans, LA, March 18-22, 2018.
- *denotes Otterbein student co-author*

DEPARTMENT OF EDUCATION

PAUL J. WENDEL, Associate Professor

Books, Book Chapters, and Journal Articles (peer reviewed)

Stains, M., Harshman, J., Barker, M. K., Chasteen, S. V., Cole, R., DeChenne-Peters, S. E., Eagan, M. K., Esson, J. M., Knight, J. K., Laski, F. A., Levis-Fitzgerald, M., Lee, C. J., Lo, S. M., McDonnell, L. M., McKay, T. A., Michelotti, N., Musgrove, A., Palmer, M. S., Plank, K. M, Rodela, T. M., Sanders, E. R., Schimpf, N. G., Schulte, P. M., Smith, M., Stetzer, M., Van Valkenburgh, B., Vinson, E., Weir, L, K., Wendel, P. J., Wheeler, L. B., Young, A. M. (2018). Anatomy of STEM teaching in American universities: A snapshot from a large-scale observation study. *Science* 359(6383), 1468-1470. DOI: 10.1126/science.aap8892.

Presentations and Posters

Wendel, P. J., Pochodylo, A. (2018, January 29). A particle model for density: Experiments, evidence, and explanations. Presentation at the Science Education Council of Ohio Annual Science Symposium, Lewis Center, OH.

DEPARTMENT OF ENGINEERING

MICHAEL W. HUDOBA, Assistant Professor

External Grants and Fellowships-Primary Investigator

Received a \$5,500 grant with Erin Bender from the Martha Holden Jennings Foundation to work with teachers from Big Walnut Schools to develop a summer Engineering Academy course aimed at developing relationships and building project ideas with industry partners of the community.

Presentations and Posters

Presented research titled "Development of DNA Origami Education Modules for Middle School, High School, and Undergraduate Students and Educators" at the 2018 Foundations of Nanoscience (FNANO18) conference in Snowbird, UT. April 2018.

DEPARTMENT OF EQUINE SCIENCE

STEFFANIE V. BURK, Assistant Professor
Books, Book Chapters, and Journal Articles (peer reviewed)

Burk, S.V. and C.E. Gramlich. College coursework and skills valued for employment in the equine-assisted activities and therapies field. *NACTA Journal*. 62(1):16-20.

DEPARTMENT OF HEALTH AND SPORT SCIENCES

ROBERT E. BRAUN, Associate Professor
Community Outreach/Service Learning
Participated in the Somali Health and Wellness Fair with students for the past three years.
Presentations and Posters

Thornton, A., Braun, R., and Frey, M. "A Comparison between Bullying & Race: Who's More Likely to be Bullied." Poster Presentation at the 10th Annual Health Disparities Conference-Advances in Evidence-Based Practices to Eliminate Disparities and Achieve Health Equity in Building Healthier Communities: Lessons Learned, New Orleans, LA, 2017.

Banks, S., Vasiloff, J., and Braun, R. "Racial Health Disparity of HIV in Ohio, 2010-2014." Poster Presentation at the 10th Annual Health Disparities Conference-Advances in Evidence-Based Practices to Eliminate Disparities and Achieve Health Equity in Building Healthier Communities: Lessons Learned, New Orleans, LA, 2017.

Braun, R., Stephen, B., Lynch, A., and Eichorn, J. "The Alpha and the Omega: ESG from Start to Success." A State presentation at the Health Educators' Institute through Ohio SOPHE, 2017.

Publications and Essays (non-peer reviewed)

Braun, R. E., Cialella, K., Payne, S., Harper, W., and Rocks, J. (2017). The Perceptions of NSAID Use among One Midwestern DIII Athletic Department. *Journal Of Sport Behavior*, 40(1), 25-42.

Service/Leadership in the Profession
Senior Year Experience (SYE) Director, 2016-present.

Scholarship Chair for Ohio SOPHE (Society for Public Health Education).

Board of directors member for Our Helpers Community Center.

HAVOYOCO board of directors member (2014-2018).

Member of the Minority Health Advisory Board through the Office of Minority Health at Columbus Public Health Department.

Social chair for National SOPHE's national conference.

Installation of Public Health Education's national honorary, Eta Sigma Gamma (ESG) at Otterbein.

Redefined and renamed the B.A. in Health Education (with a public health concentration) degree to a B.A. in Public Health Education.

KRISTY L. MCCRAY, Assistant Professor
Presentations and Posters

Guest lecturer, February 2018. Sexual Violence Education for Individual and Community Health. HLED 1400: Individual and Community Health, Otterbein University, Westerville, OH.

Guest lecturer, February 2018. Sexual Violence: Disclosure Response in Athletics. HLED 3800: Organization and Management in Health and Sport Sciences, Otterbein University, Westerville, OH.

Invited speaker, February 2018. Otterbein Athletics: Sexual Violence & Title IX. Presented to Athletic Department staff, Otterbein University, Westerville, OH.

Invited speaker, January 2018. Rape Culture and Intercollegiate Athletes - Making the Connection to Provide Effective Prevention. Presented at the Sports and Sexual Violence Researcher Think Tank hosted by the Center on Gender Equity and Health at the University of California, San Diego, CA.

Service/Leadership in the Profession
Co-Chair, Diversity Committee. North American Society for Sport Management, June 2017-present.

DEPARTMENT OF MATHEMATICAL SCIENCES

ADRIANA NENCIU, Associate Professor
Presentations and Posters

Invited talk, March 8, 2018. "Brauer pairs of nested GVZ-groups." Kent State Math Colloquium, Kent, OH.

Invited talk, March 18, 2018. "2-generator p-groups of class 2 of central type." Spring Sectional Meeting of the American Mathematical Society, Columbus, OH.

DEPARTMENT OF MUSIC

JENNIFER MERKOWITZ, Associate Professor
Artistic Exhibits and Performances

Original composition *Les Crapauds de la Fontaine* for bass clarinet and electronics, performed by Timothy Bonenfant at the Music by Women Festival at Mississippi University for Women, Columbus, MS, March 2, 2018.

GAYLE A. WALKER, Professor
Artistic Exhibits and Performances

Conducted Concert Choir in performance at the Ohio Music Educators Association Conference, Columbus, February 8, 2018.

Conducted Concert Choir in performance at the Great Lakes Chapter of the College Music Society Conference, Otterbein University, Westerville, OH, April 6, 2018.

Community Outreach/Service Learning

Presented "The Singing Heart: Adventures in Germany With the Otterbein Concert Choir" to the Otterbein Lifelong Learning Community; included a performance for the LLC by the Otterbein Concert Choir.

Service/Leadership in the Profession

Vice President of the Central Division of the American Choral Directors Association.

Served on Planning Committee of the 2018 ACDA Central Division Conference in Chicago, IL.

DEPARTMENT OF NURSING

KAY A. BALL, Professor

Books, Book Chapters, and Journal Articles (peer reviewed)

Ball, K. (2018). *Lasers: The Perioperative Challenge*, 4th ed. Orlando, FL: Laser Institute of America.

Community Outreach/Service Learning

Prison Ministry (including Kairos involvement on team), Marion Correctional Institute, Marion, OH.

Presentations and Posters

Ball, K. (2017, August 9). Hazards of Surgical Smoke. Ethicon dinner meeting. Ft. Wayne, IN.

Ball, K. (2017, September 19). Hazards of Surgical Smoke. Ethicon dinner meeting. St. Paul, MN.

Ball, K. (2017, October 13-14). Laser Technology in Healthcare. Laser Institute of America Medical Laser Safety Course. Phoenix, AZ.

Ball, K. (2017, October 28). Hazards of Surgical Smoke. Ethicon workshop. Dallas, TX.

Ball, K. (2017, November 15). Hazards of Surgical Smoke. Ethicon booth presentation at AAGL convention, Baltimore, MD.

Ball, K. (2017, November 17). Hazards of Surgical Smoke. Ethicon workshop. Houston, TX.

Ball, K. (2017, December 18). Hazards of Surgical Smoke. Ethicon dinner meeting. Jacksonville, FL.

Ball, K. (2017, December 19). Hazards of Surgical Smoke. Ethicon lunch meeting and dinner meeting. Orlando, FL.

Ball, K. (2018, January 23). Hazards of Surgical Smoke. Ethicon dinner meeting. Detroit, MI.

Ball, K. (2018, January 30). Hazards of Surgical Smoke. Ethicon dinner meeting. Dayton, OH.

Ball, K. (2018, February 1). Hazards of Surgical Smoke. Ethicon 7AM inservice and lunch meeting meeting. Ft. Wayne, IN.

Ball, K. (2018, February 6). Hazards of Surgical Smoke. Ethicon dinner meeting. Ft. Myers, FL.

Ball, K. (2018, February 7). Hazards of Surgical Smoke. Ethicon lunch meeting. Bradenton, FL.

Ball, K. (2018, February 7). Hazards of Surgical Smoke. Ethicon dinner meeting. Tampa, FL.

Ball, K. (2018, February 13). Hazards of Surgical Smoke. Ethicon dinner meeting. Spokane, WA.

Ball, K. (2018, February 27). Hazards of Surgical Smoke. Ethicon dinner meeting. Cincinnati, OH.

Ball, K. (2018, March 2-3). Laser Technology in Healthcare. Laser Institute of America Medical Laser Safety Course. Marina del Rey, CA.

Ball, K. (2018, January 23). Hazards of Surgical Smoke. Ethicon dinner meeting. Detroit, MI.

Ball, K. (2018, March 14). Perioperative Nursing in Ohio Policy Agenda (Nurses Day at the Statehouse). Ohio Nurses Association, Columbus, OH.

Ball, K. (2018, March 14). Otterbein University Nursing Dept Policy Agenda (Nurses Day at the Statehouse). Ohio Nurses Association, Columbus, OH.

Ball, K. (2018, March 20). Hazards of Surgical Smoke. Ethicon dinner meeting. Delaware.

Ball, K. (2018, March 25). Status of AORN and Expo (Mobile Instruments sales force and staff). Mobile Instruments booth at AORN Expo, New Orleans, LA.

Ball, K. (2018, March 26). Implementing a Smoke Evacuation Program in the OR. Ethicon booth at AORN Expo, New Orleans, LA.

Ball, K. (2018, March 27). Implementing a Smoke Evacuation Program in the OR. (delivered twice) Ethicon booth at AORN Expo, New Orleans, LA.

Sabbatical Outcomes

Ball, K. (2018). Lasers: The Perioperative Challenge, 4th ed. Orlando, FL: Laser Institute of America.

Service/Leadership in the Profession

Delegate to Association of periOperative Registered Nurses Expo, New Orleans, LA. March 24-28, 2018.

President-elect, AORN of Central Ohio.

Legislative Chairperson, MidOhio District Nurses Association.

DEPARTMENT OF PSYCHOLOGY

ROBERT N. KRAFT, Professor
Presentations and Posters

Kraft, R. N. (2018, April 13). Remembering When: How Age is Represented in Personal Event Memory. Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

DEPARTMENT OF RELIGION AND PHILOSOPHY

JEFFREY P. JAYNES, Part-Time Instructor
Books, Book Chapters, and Journal Articles (peer reviewed)

Book: Christianity Beyond Christendom: The Global Christian Experience on Medieval Mappaemundi and Early Modern World Maps, Wolfenbuttel Forschungen no. 149 (Wiesbaden: Harrassowitz Verlag, 2018); ISBN: 9783447107150.

"Church Ordinances/ Kirchenordnungen," "Church Law" and "The Palatinate," in Timothy Wengert, ed., Dictionary of Luther and the Lutheran Traditions (Baker Academic Press, 2017).

SUZANNE E. SCHIER-HAPPELL, Visiting Instructor
Presentations and Posters

"Negotiating Gender, Finding Acceptance, Rejecting Materialism: Devotion to Sarada Devi Among Ramakrishna Vedantins in North America." American Academy of Religion Midwest Regional Conference, Ball State University (Muncie, IN), March 2-3, 2018.

DEPARTMENT OF SOCIOLOGY, CRIMINOLOGY AND JUSTICE STUDIES

CARLA R. CORROTO, Associate Professor
Presentations and Posters

Corroto, Carla. "Teaching Rape Culture: One Step Forward, Two Steps Back." Midwest Sociological Society. Minneapolis, MN. March 22, 2018.

Corroto, Carla. "Designing Masculinity." North Central Sociological Association. Pittsburgh, PA. April 6, 2018.

Service/Leadership in the Profession

Board Member, Commission on the
Accreditation of Programs in Applied and
Clinical Sociology. 2017-2020.

Chair, Social Media Committee, for Commission
on the Accreditation of Programs in Applied
and Clinical Sociology, 2018.

Committee Member, Nominations Committee.
Midwest Sociological Society.

Session Organizer and Discussant, Masculinities.
North Central Sociological Association
Annual Conference, 2018.

DEPARTMENT OF THEATRE AND DANCE

TIMOTHY J. GERCKENS, Assistant Professor
Artistic Exhibits and Performances

Lighting Design for *The Diary of Anne Frank*,
Directed by Mark Mineart. Otterbein
University Theatre, February 2018.

Lighting Design for "The State of the State"
televised speech, by Governor John Kasich.
Otterbein University in conjunction with The
Ohio Channel, March 2018.

Guest Lighting Design for *The White Snake*,
Columbus School for Girls, Bexley, Ohio,
March 2018.

SABBATICAL ABSTRACTS – ACADEMIC YEAR 2018-2019 PROJECTS

Heidi R. Ballard (Sociology, Criminology and Justice Studies, Spring 2019)

Dr. Ballard will conduct a quasi-randomized control trial which analyzes a comprehensive menstrual hygiene management (MHM) program and its effects on female empowerment and sustainable development in three schools in the West Nile, Uganda. This builds on research conducted in 2016 examining a more limited MHM intervention on schoolgirls and their communities.

Ryan Berndt (Mathematical Sciences, Spring 2019)

Dr. Berndt will travel to the University of Alabama to conduct a research collaboration with a colleague. Berndt and his colleague will investigate the Fourier transform, whose uses are wide ranging, from CT scans to cell phones, yet about which much is still unknown. New discoveries will be shared in published papers and research presentations.

Jim Bowling (Art, Spring 2019)

Through research and direct observation of the figure in Art Nouveau, Bowling will produce a body of sculptural work that takes a contemporary approach to Art Nouveau design and the male figure. Contemporary approaches to homoerotic themes in late 19th century Art Nouveau will also be explored in his work.

Robert Braun (Health and Sport Sciences, Spring 2019)

The goal of this project is to increase enrollment and visibility of Otterbein's public health education major. Since its inception in the fall of 2016, the primary reason for an increase in enrollment was due to word of mouth. By developing specific marketing strategies, this program can increase enrollment.

Joan Esson (Chemistry, Spring 2019)

Analytical Chemistry in the Context of Cultural Heritage: During her sabbatical, Dr. Esson will collaborate with conservation scientists at the Indianapolis Museum of Art (IMA) to conduct

technical studies of objects of art and cultural heritage significance, and to gain knowledge that will be incorporated into classes and research at Otterbein.

Meredith Frey (Psychology, Spring 2019)

Dr. Frey intends to expand an existing line of research investigating intelligence. Frey aims to analyze response time data from a battery of cognitive tasks—sustained attention, working memory, and reaction time—that can be used to predict academic achievement. Frey will prepare the results for publication in a scholarly journal.

Robin Grote (Chemistry, Fall 2018)

Safe, cost-effective methods to synthesize biologically and medically important compounds, specifically heterocycles, are needed by the chemical and pharmaceutical communities. Dr. Grote will work to develop such a method and these findings will be published in a chemical journal and presented at a national meeting.

Jackie Haverkamp (Nursing, Summer 2019)

Dr. Haverkamp will seek fellow membership in the American Association of Colleges of Nursing-Wharton Executive Leadership Program to further advance academic administrative skills. Skills to be honed include: managing and leading innovative change; influencing and negotiating with stakeholders; building strategic relationships to provide population specific care.

Terry Hermsen (English, Spring 2019)

Dr. Hermsen will work on four interlocking projects to continue his "bilingual education": a) translate a second book by Christian Formoso; b) complete a bilingual Anthology of the Americas; c) work with Ohio High School Spanish classrooms in translating poetry; d) teach "poetry of place" sessions in Chile.

Amy Johnson (Art, Fall 2018)

This project will examine the relationship between the tourist industry of the western United States and the arts and crafts community, both historically and today. In particular, Dr. Johnson will focus on the many women artists in Taos, New Mexico, who helped make the west a destination for tourism and their connections with local indigenous people.

Chris Kirk (Theatre and Dance, Fall 2018)

Kirk intends to enrich, foster and further develop relationships and partnerships with existing and potential donors, alumni, and industry professionals to enhance the strategic goals of the Department of Theatre & Dance and the University. Kirk will work with Institutional Advancement, Alumni Relations, and industry professionals to advance our mission.

Robert Kraft (Psychology, Spring 2019)

Dr. Kraft's sabbatical continues his research on autobiographical memory. Focusing on the interplay between concepts of self and specific memories, this research analyzes extended free recall of personal events, identifying accuracies, inaccuracies, transformations, additions, and omissions in long-term personal memory. The research also applies to the analysis of memory in memoir.

Jeff Lehman (Biology and Earth Science, Spring 2019)

Dr. Lehman will explore the severity and seasonality of maple toxicosis by studying hemolysis and methemoglobin production in equine erythrocytes for extracts of 35 maple species. In a separate study, Dr. Lehman will examine the correlation between ecological/reproductive features and plant sexuality for plant species in a lowland tropical forest. The finished products should include two publishable manuscripts.

Hal Lescinsky (Biology and Earth Science, Fall 2018)

Dr. Lescinsky will explore coral reef ecology by expanding his field research on the endangered Caribbean staghorn coral from Belize to Honduras. In addition, Dr. Lescinsky will support Otterbein's new Aquarium Track by pursuing professional development and national networking with aquarists, and by building a new tank system in the lab.

Lisa Marr (Biology and Earth Science, Spring 2019)

Blastomycosis is an infection caused by the fungus *Blastomyces dermatidis*, which is endemic in the Ohio River Valley. Blastomycosis primarily infects humans and dogs. Dr. Marr will review the scientific literature on Blastomycosis and write a Case Report about a 13 year old dog who has had Blastomycosis for 11 years.

Nichelle McNabb (Communication, Spring 2019)

Dr. McNabb will begin work on a Public Speaking textbook that would be free to students taking classes in the new general education Oral English Competency area. This textbook would combine the practical approach of how-to speech construction provided by the many textbooks with rhetorical theory.

Jennifer Merkowitz (Music, Spring 2019)

Dr. Merkowitz will compose a piece for the Westerville Symphony's "Tunes & Tales" program. The piece will be performed at the Westerville Public Library in February 2020. Dr. Merkowitz plans to submit the piece for publication and other competition and performance opportunities.

Andrew Mills (Religion and Philosophy, Fall 2018)

Dr. Mills plans to write two papers (one on the benefits of online collaborative annotation of difficult texts, and one about the distinctive value of philosophy for general education students), redesign the Introduction to Philosophy course, and develop an online resource to help students master symbolic logic.

Shelley Payne (Health and Sports Sciences, Fall 2018)

Dr. Payne's sabbatical project will evaluate the Allied Health curriculum student learning outcomes and the current progress toward those goals. Specifically Dr. Payne will look for ways to measure the growth of self-directed learning in our students and examine ways to promote this type of learning within the curriculum.

Nicholas Ross (Music, Fall 2018)

Dr. Ross' sabbatical project is to prepare two concerts of left-handed piano music, and to make a recording of the complete original music for left hand alone by Leopold Godowsky, to be released by Centaur Records Inc. In preparation, Dr. Ross will study with master teacher John Perry in Toronto.

Joy Shoemaker (Nursing, Fall 2018)

The preparation for the National League of Nursing's Nurse Educator Certificate will allow Dr. Shoemaker an opportunity to analyze the Otterbein DNP Scholarly Project process while improving her skills as an educator. Dr. Shoemaker will also visit Arizona State University's DNP program to experience one of their DNP Scholarly Project Immersion weeks.

Kevin Svitana (Biology and Earth Sciences, Spring 2019)

Making complex scientific arguments clearly to non-scientists is a challenge for scientists who interface with the public. The proposed collaboration with National Groundwater Association is for developing online resources for non-scientists to foster an understanding of complex groundwater situations typically associated with hazardous waste and Brownfield redevelopment projects.

Nathaniel Tagg (Physics, Spring 2019)

Neutrinos are subatomic particles believed to be fundamental "building blocks" of the universe that exhibit a strange phenomenon known as neutrino oscillation. Studying this and related phenomena of neutrinos requires construction of large experiments. This sabbatical allows

participation in two such experiments named MicroBooNE and DUNE.

Gayle Walker (Music, Spring 2019)

The aim of the proposed sabbatical project is to compose a choral work, or a choral song cycle, based on texts/poetry by 21st-century refugees, and to conduct that composition in a spring 2020 Concert Choir concert that explores the themes of "other," war, open doors, and love for all.

Dennis Whalen (Business, Accounting and Economics, Spring 2019)

Dr. Whalen will complete a publishable article which focuses on informed trading in the options market around the earnings announcements of related firms. Positive and negative option volumes will be examined to determine if traders take the appropriate positions when other firms in the same industry announce their earnings.

Anna Young (Biology and Earth Science, Fall 2018)

The Cape parrot is the most threatened African parrot with 1767 individuals in three South African provinces. Like other parrots, they may possess vocal dialects, which could isolate populations, meaning their conservation is critical. Dr. Young will investigate differences in vocalizations among these three populations and closely related species.

FACULTY SCHOLAR DEVELOPMENT COMMITTEE

FSDC INTERNAL GRANTS

FSDC provides funds to support full-time faculty at all levels of career development in scholarly and artistic activities related to their work at Otterbein University. These grants are primarily intended for the enhancement of the professional activities of faculty; specifically research, artistic projects, and publications.

ELIZABETH BERKELEY, Biology and Earth Science
Glycemic Response to Summer Diets in African Elephants

Nothing is known about how what an African elephant eats influences its glucose physiology, yet excess glucose in diets is suspected in numerous diseases and conditions that harm captive elephants. African elephants are increasingly at risk due to human-elephant conflict, habitat fragmentation, and poaching. As elephants are more intensively managed in zoos and smaller reserves, we need to understand what foods best approximate wild diets. To further understand how elephants metabolize dietary glucose, Berkeley will measure the elephants' glycemic response to different wild and provisioned diets. Berkeley's work will complete the research started in May 2017 by 1) collecting blood samples during two summer season feeding trials and 2) validating the handheld glucometer with a laboratory kit.

Living Large in a Hot World: Application of Thermal Camera Imaging for Monitoring African Elephant Health and Welfare

Large body size leads to a lower ability to radiate heat through the skin so maintaining a constant body temperature in hot environments can be challenging. Elephants adjust for their body size by having large ears to increase the rate of heat loss and by performing behaviors such as bathing. Berkeley will adapt thermal imaging technology to assess body temperature remotely in active and resting elephants. The information produced will help to better conserve and manage this iconic endangered species by providing information on when elephants are subject to heat stress under natural ranging and working conditions.

SUSAN CONSTABLE, Education
The Art of Listening: How can podcasts be integrated into a first grade language arts class to increase communication skills and promote civic engagement?

This classroom inquiry project will examine communicative engagement and explore possibilities for the enrichment of first grade girls as they incorporate weekly podcast engagements into their school language arts program. Specifically, the researcher and the classroom teacher will collaborate to investigate, develop, and implement the use of podcasting as it impacts reading, writing, listening and speaking as they pertain to discourses and actions of civic engagement.

BETH R. DAUGHERTY, English
On to Book Two! Archival Research on Virginia Woolf's Essays

Daugherty's three-part manuscript on Woolf's essays argues Virginia Stephen's apprenticeship shaped Virginia Woolf into a pedagogical essayist who teaches readers about: the essay genre, reading and writing, and teaching. To draft additional portions of this manuscript, Daugherty will visit four archives in England to 1) examine holograph drafts and typescripts of Woolf's essays to determine how she strengthened her essays' pedagogical subtext as she revised, and 2) study Leonard Woolf's correspondence to learn how her work was received and thus taught in England after her death.

JOAN ESSON, Chemistry
Technical analysis of objects from the Frank Museum of Art

The purpose of this project is to conduct the first technical study of objects in the African collection from Otterbein's Frank Museum of Art. Since limited information is known about these objects, a suite of complementary analytical methods will

be used to examine several pieces from the African collection in order to identify their material composition, which may also lead to a better understanding of how, where, and when these objects were made and used, how they may have changed over time, and how best to preserve them.

JANICE GLOWSKI, Art
(Dis)Guising Gandhi

This proposal seeks partial funding for two weeks of scholarly research travel to Karnataka, Delhi, and Hyderabad, India in May 2018. The funding would support the (Dis)Guising Gandhi portion of a larger, collaborative research and curatorial project called On Being Gandhi. The (Dis)Guising Gandhi research will culminate in a conference presentation on a panel titled "Impersonation in South Asia" at the 47th Annual Conference on South Asia, October 11-14, 2018. Northwestern University Press has invited publication of a volume based on the papers, edited by Dr. Harshita Kamath, University of North Carolina, Chapel Hill.

JONATHAN JOHNSON, Art

New Amsterdam in Thailand: An experimental documentary

Using poetic cinema and cameraless photography (photograms), this two part project is an experiment in the documentary arts that uses cultural and trade relationships between the Netherlands and Siam (modern day Thailand) in the 1500's as a starting point to explore questions about history, identity and globalism.

MUSEUM RICKLUNDGÅRDEN Artist in Residence

By invitation of the Museum Ricklundgården Artist in Residence Program in Säxnas, Sweden, Johnson has been asked to create an experimental media art project that explores the local area through two regional cultural and natural elements: The Arctic midnight sun and the "Wilderness Road". These two entities will act as aesthetic and conceptual starting points to create an exhibition of photographs and media art that meditates on local ideas of land use, nature and the politics of everyday life in this rural Southern Lapland community.

DEAN JOHNSTON, Chemistry

A systematic survey of structural diversity in metal-atom clusters

Metal clusters, molecules that contain three or more bonded metal atoms, adopt many different structures depending on the constituent metals and the atoms surrounding and supporting the metal cluster. This project will survey the diverse structures of metal clusters using the Cambridge Structural Database and the Inorganic Crystal Structure Database. Johnston will use this survey to investigate the influence of the cluster environment on electron counts and to identify other systematic trends in geometric preferences.

JEAN KELLY, Communication

Field Reporting for book, "The Way of American Catholic Writers"

The grant will support field reporting expenses for a chapter of a book that intertwines a deeper reading about faith with physical pilgrimages to the places, lives, and culture of Catholic journalists and writers. This particular trip, to New York City during spring break in March, will include visits to key sites in the life of Catholic journalist Dorothy Day, including her burial site, the church where she converted to Catholicism, and the Catholic Worker houses she established. Kelly also intends to participate in and write about social action projects of Catholic Worker staff and volunteers, such as serving in the soup kitchen at Maryhouse, distributing clothing at St. Joseph House, and participating in any peace protests.

CHRISTINA KIRK, Theatre and Dance

Humana Festival of New American Plays - Actors Theatre of Louisville

The Humana Festival is a world-renowned event that has introduced more than 450 plays into the American and international theatre repertoire. This Festival is the premier event of its kind in the nation, drawing producers and directors from around the world. The Festival culminates in an industry weekend which host panels, discussions and networking opportunities. In her role as Artistic Director of Otterbein University Theatre this event is an excellent opportunity for Kirk to research new plays for our seasons and to network with colleagues in the industry about potential partnerships. It is a vital opportunity for

Professional Development and Research. Seeing a play produced is quite different from reading it. And, most of these plays are not yet in publishable form.

AMANDA KLINE, Art
Impressions of Havana

"Impressions of Havana" will be on view at the Port Columbus Gateway to the Arts Gallery at the John Glenn International Airport in Columbus, OH from May 2–July 31, 2018. The work is photographic cityscapes, street scenes, candid portraits, and small details. The images compose a portrait of a place that is beautiful, wild, and strange: Havana, Cuba. They were taken from the perspective of a fond visitor.

JENNIFER MERKOWITZ, Music
A Professional Commercial Recording of Original Music

Merkowitz's composition "Les Crapauds de la Fontaine" for bass clarinet and electronics has been chosen for a forthcoming compilation album of Electronic and Electroacoustic Works, to be released by PARMA Recordings on the Ravello Records label later this year. Each selected composer is responsible for securing funding for costs associated with production. In return, the music will be professionally mastered and released on a commercial album. The album will be distributed digitally via Naxos, included in the Naxos Music Library, and made available on Amazon, iTunes, Spotify, Google Play, ArkivMusic, and a variety of other vendors.

PEI PEI, Mathematical Sciences
Theoretical and numerical analysis of partial differential equations: Applications in Physics, Engineering, and Finance

The Reissner-Mindlin-Timoshenko (RMT) equations have important applications on the straight-crested wave in quartz crystal oscillators. They are the most common type of linear oscillator,

used to stabilize the frequency of most radio transmitters and to generate the clock signal in computers as well as radio signals in cell phones. We consider an inverse problem of recovering shear modulus and an initial condition for RMT plate equations. The lower dimensional case of this project can lead to several undergraduate research projects. The methods developed here have applications in analysis of partial differential equation (PDE) models in finance and actuarial science.

DAVID SHERIDAN, Biology and Earth Science
The CardyScope, a modular upright fluorescent microscope for experiments in neuroscience
A previous FSDC grant (Round 2, 2016) allowed us to build a modular microscope, the "CardyScope," out of modular microscope components for a fraction of the cost of commercially available scopes. As an added benefit, parts can be added or subtracted to this modular microscope to suit the needs of the research scientist. The purpose of this grant is to acquire fluorescence microscopy components to enhance the CardyScope for neuroscience experiments involving live neurons and also multiple fluorescent proteins.

DEBORAH SOLOMON, History and Political Science
Schooling Discontent Manuscript Supplemental Research/ Revision
From May 15-August 15, Solomon will be in residence at U.C. Berkeley as a Center for Japanese Studies Visiting Scholar, substantively editing and revising her book manuscript, *Schooling Discontent: Student Protest in Colonial Korea, 1910-1945*, a process which also requires conducting additional supplemental archival research at U.C. Berkeley's C.V. Starr East Asian Library and the Northern Regional Library Facility. Solomon will have completed this additional research and a manuscript revision by August 15, 2018, with the ultimate goal being publication.

FSDC HIGH IMPACT GRANT

The High Impact Grant provide funds to support a full-time faculty member at any level of career development in the scholarly and artistic activities related to their work at Otterbein University. This grant is primarily intended for the enhancement of the professional activities of faculty; specifically research, artistic projects, and publications.

SARAH BOUCHARD, Biology and Earth Science
Metabolic Plasticity in Panamanian Red-eyed Treefrogs

This project will examine the effect of tadpole developmental conditions on the metabolic rates of red-eyed treefrogs at the Smithsonian Tropical Research Institute in Gamboa, Panama. We will rear tadpoles under variable, semi-natural conditions at the edge of the rainforest (low and high resources) and measure the resulting metabolic rates. Changes in both gut and brain sizes will be measured to try to understand mechanisms for variable rates. These results will help us better understand amphibian responses to climate change, as well as improve our captive breeding programs.

JONATHAN JOHNSON, Art
MUSEUM RICKLUNDGÅRDEN Artist in Residence

By invitation of the Museum Ricklundgården Artist in Residence Program in Säxnas, Sweden, Johnson has been asked to create an experimental media art project that explores the local area through two regional cultural and natural elements: The Arctic midnight sun and the “Wilderness Road”. These two entities will act as aesthetic and conceptual starting points to create an exhibition of photographs and media art that meditates on local ideas of land use, nature and the politics of everyday life in this rural Southern Lapland community.

INTERNATIONAL COLLABORATIVE FACULTY ENRICHMENT GRANT

The Otterbein University Faculty Collaborative International Enrichment Grant is designed to expand faculty members’ international learning, awareness, and experience, both for the potential enhancement of the curriculum and for their own intellectual enrichment. Although global learning can be meaningfully addressed in a local or broader national context, the purpose of these grants involves the travel, collaboration, and immersion of a team in a context outside of the United States.

STEFFANIE BURK, Equine Science

JOAN ESSON, Chemistry

ANNA YOUNG, Biology and Earth Science
Conservation Science (Art & Animals) in the United Kingdom

Faculty from three departments will travel to England to (a) develop opportunities for Otterbein students to engage in research, internships and other learning opportunities, including a faculty-led travel course, and (b) provide opportunities for the faculty to develop international scholarly relationships and conduct scientific studies. These opportunities center around the concept of Conservation Science applied to both animals and art, the former rooted in biology and animal sciences and the latter in chemistry.

FSDC MINI-GRANTS TO REVIEW OPEN EDUCATION TEXTBOOKS

FSDC provided a new initiative to support the adoption of open education resources. In fall 2016, the statewide library consortium, OhioLINK, joined the University of Minnesota's Open Textbook Network (OTN), a consortium of colleges and universities working to advance open textbook initiatives. The OTN supports the Open Textbook Library, which provides textbooks that students may use freely online or print at a minimal cost. This grant is to allow faculty to review one textbook available at the Open Textbook Library. Reviewing existing textbooks provides faculty an opportunity to see what is available in their field and to consider adopting an open textbook for a class.

ANDREW MILLS, Religion and Philosophy
A Concise Introduction to Logic by Craig Delancey

MATTHEW GROTE, Chemistry
Organic Chemistry Laboratory Techniques by Lisa Nichols

NICHELE McNABB, COMMUNICATION
Exploring Public Speaking: 2nd Revision by Barbara Tucker and Kristin Barton

JONATHAN JOHNSON, ART
Introduction to Art: Design, Context, and Meaning by Pamela Sachant

PAUL LONGENECKER, HEALTH AND SPORT SCIENCES
Leading with Cultural Intelligence by Mia Moua

BRUCE MANDEVILLE, Equine Science
Animals & Ethics 101: Thinking Critically About Animal Rights by Rollin, Cohen, Regan and Singer

SUSAN MILLSAP, Communication
Stand Up, Speak Out: The Practice and Ethics of Public Speaking, no attribution

CHRIS REYNOLDS, Communication
Exploring Public Speaking by Tucker and Barton