


4-2017

## Faculty Achievements, April 2017

Otterbein University

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## Faculty Achievements, April 2017 Report

### OFFICE OF ACADEMIC AFFAIRS

**WENDY R. SHERMAN HECKLER**, Associate Vice  
President for Academic Affairs/Dean of  
University Programs/Professor,  
Department of Education

#### *Presentations and Posters*

Sherman Heckler, W., and Reichley, K. (2017, April). *Engaging the campus in accreditation: Argument and site visit*. Presentation ("Open Pathway Elective") given at the pre-conference Accreditation Workshop at the Annual Conference of the Higher Learning Commission, Chicago, IL.

Sherman Heckler, W., and Reichley, K. (2017, April). *Engaging the campus in accreditation: Maintaining momentum between visits*. Presentation given at the Annual Conference of the Higher Learning Commission, Chicago, IL.

### DEPARTMENT OF ART

**NICHOLAS A. HILL**, Professor  
*Artistic Exhibits and Performances*

Created an edition of prints that will be included in a portfolio project at Taller 99, a printmaking studio in Santiago, Chile. The prints will be exhibited at the Museo de Bellas Artes in Santiago.

**JONATHAN D. JOHNSON**, Associate Professor  
*Artistic Exhibits and Performances*  
A-Dash Project Space, Athens, Greece.  
Oneota Film Festival, Decorah, IA.  
Legion Arts, Cedar Rapids, IA.

#### *External Grants and Fellowships - Primary Investigator*

Marshall T. Meyer Research Grant, Duke University, \$1,100.

#### *Service/Leadership in the Profession*

Portfolio Reviewer, Society for Photographic Education, national conference, Orlando, FL.

### DEPARTMENT OF BIOLOGY AND EARTH SCIENCE

**MICHAEL A. HOGGARTH**, Professor  
*Books, Book Chapters, and Journal Articles (peer reviewed)*

Hoggarth, Michael A. and Michael Grumney. 2016. The Distribution and Abundance of Mussels (Bivalvia: Unionidae) in Lower Big Walnut Creek from Hoover Dam to its Mouth, in Franklin and Pickaway Counties, Ohio. *Ohio Journal of Science*, 116 (2): 48-59.

#### *Presentations and Posters*

Hoggarth, Michael A. and Tegan Loew. 2016. Abstract presentation. Freshwater mussels: The not so silent sentinels for water quality. Voices for Water: 45th Annual WMAO Conference, Crowne Plaza North, Worthington/Columbus, OH. November 9-10, 2016. Proceedings, pages 18-19.

Smoot, Trevor S. and Michael A. Hoggarth. 2016. Abstract presentation. A Comparative Analysis of Fish and Mussels in Lower Big Walnut Creek, Franklin and Pickaway Counties, OH. *Ohio Journal of Science*, 116(1):A9.

#### *Service/Leadership in the Profession*

Past-President, The Ohio Academy of Science

### DEPARTMENT OF BUSINESS, ACCOUNTING AND ECONOMICS

**MICHAEL A. LEVIN**, Associate Professor  
*Books, Book Chapters, and Journal Articles (peer reviewed)*

Hansen, Jared, M., and Michael A. Levin (2016), "The Effect of Apathetic Motivation on Employees' Intentions to Use Social Media for Businesses," *Journal of Business Research*, 69 (12), 6058-6066. The article examined recent employment hires' likelihood to use social media for work-related reasons. They focused on motivations as the key explanatory variables to predict why some recent employment hires are more likely to use social media for work-related purposes.

Levin, Michael A., and Lori T. Peterson (2016), "A Sales Representative is Made: An

Innovative Sales Course," *Marketing Education Review*, 26 (1), 39-44. The article focused on the use of an actual client (i.e., Otterbein student media) that Sales students sold advertising for. Few if any Sales courses in the United States involve their students selling in a business-to-business context as Dr. Levin's Sales students did despite B2B's overwhelming economic activity and employment of sales professionals.

*Community Outreach/Service Learning*

Keynote presentation for the Mid-States Association of College Stores' 2016 annual conference in Kansas City, MO.

Conducted the annual statistics workshop for the Ohio Program Evaluators' Group (OPEG) on using Excel for inferential statistics.

Presented to a meeting of digital analysts from the Central Ohio region about the application and interpretation of correlation analysis. This group meets monthly with an average attendance of 64 professionals. It was the third time in as many years that Levin has given a presentation to this group.

*Presentations and Posters*

Elam, Kate, Sonja M. Poole, and Michael A.

Levin (2016), "Is There a Better Way to Differentiate Higher Education Offerings? Using Exploratory Factor Analysis Instead of Rankings," *Society for Marketing Advances*, Atlanta, GA. Paper presented at the Society for Marketing Advances' annual conference. Paper written by Kate Elam as part of her distinction project with the conference paper developed by three co-authors who served as Kate's second reader and advisor, respectively. The paper argues for the use of grouping higher education institutes such as Otterbein into different groups. These groupings provide better information for perspective students and their parents.

Panelist at the Society for Marketing Advances' annual conference devoted to The Four Horsemen of Consumerism and Fall of Branding Babylon. Comments focused on the war fought by marketers for advantageous positions within consumers' minds.

*Service/Leadership in the Profession*

Appointed to fill a term as treasurer for the Society for Marketing Advances, which boasts more than 300 members from more than 15 countries.

Served as board member for the Ohio Program Evaluators' Group.

**CENTER FOR TEACHING AND LEARNING**

**KATHRYN M. PLANK**, Associate Professor in the Department of Education/Director of the Center for Teaching and Learning

*Presentations and Posters*

Plank, K. M. (2017). Team Teaching: Workshop for PMBA Faculty at Seattle University. Seattle, WA, March 13-14.

**DEPARTMENT OF COMMUNICATION**

**HILLARY A. WARREN**, Professor

*Service/Leadership in the Profession*

Convention Chair, College Media Association Spring National Convention, New York City, March 2017.

**DEPARTMENT OF EDUCATION**

**SUSAN D. CONSTABLE**, Professor

*Community Outreach/Service Learning*

Troop Leader: Daisy Scouts at Indianola.

*External Grants and Fellowships - Primary Investigator*

National Professional Development Grant, U.S. Department of Education. Year Five Award: \$375,000.

*Honors and Awards*

Otterbein MLK Peace and Justice Award: Central Ohio English Learners' Collaborative.

*Presentations and Posters*

Constable, S. and Blosser, C. (2016, December). Analyzing dramaturgical texts. In Schneider et. al., *Multimodal Data Analysis: A Curated, Open Access Collection of Methodologies for Analyzing Digital, Visual, Gestural, and Filmic Texts*. Presentation of the Literacy Research Association, Nashville, TN.

*Service/Leadership in the Profession*  
Professional Development and tutoring  
consultation: Olentangy Local Schools,  
Columbus School for Girls, Indianola  
Informal K-8 School.

**DIANE A. ROSS**, Associate Professor  
*Community Outreach/Service Learning*  
2016 Uganda Service Learning trip.  
*External Grants and Fellowships - Primary  
Investigator*  
2016-17 Fulbright U.S. Scholar Flex research  
grant in Uganda.

*Presentations and Posters*  
Ziegenfuss, R., Odhiambo, E., Mizelle, N. E.,  
Ross, D. A. (November 2016). CMLA: The  
Future? Panel presentation. Association of  
Middle Level Education: Austin, TX.

*Service/Leadership in the Profession*  
Collegiate Middle Level Association Chair of the  
Advisory Board.

Ohio Schools to Watch Leadership Team.  
Digital Data Content Manager for the Education  
Department.

#### **DEPARTMENT OF ENGLISH**

**JAMES F. GORMAN**, Professor

*Presentations and Posters*

“Cardinal 65 Walks Vermont’s Long Trail,” a  
Faculty Scholar Series presentation at the  
Frank Museum of Art at Otterbein  
University, February 23, 2017; to be  
repeated on June 14 at part of the Courtright  
Memorial Library’s Bliss Series.

“The Page and What’s Not On It: Michael  
Martone Winking,” a critical essay presented  
at the 2016 Symposium on Midwestern  
Literature and Culture, Michigan State  
University, June 4, 2016.

“Ohio’s Amazing Depression-Era Basketball  
Pioneers--The Waterloo Wonders,” Lifelong  
Learner Lecture Series, Marysville Early  
College High School, March 21, 2017.

“Ohio Sports: Always First--Or Close To It,” The  
Inaugural Presentation in the Lifelong  
Learner Lecture Series, Marysville Early  
College High School, September 23, 2015.

“An Appreciation of Narrative Passion in the  
Poetry of Philip Levine,” critical essay  
presented at the 2015 Symposium on  
Midwestern Literature and Culture,  
Michigan State University, May 31, 2015.

*Service/Leadership in the Profession*

Faculty Athletics Representative (FAR) for  
Otterbein University to the NCAA and the  
Ohio Athletic Conference (OAC), 2003 to the  
present; duties include representing  
academic interests at the national,  
conference and campus level; adviser to  
both faculty and students in establishing  
balance between academics and athletics.

Member and secretary, Faculty Council  
Executive Committee, 2014 – 2016.

Member, Integrative Studies Advisory  
Committee, 2011 to 2016.

#### **DEPARTMENT OF ENGINEERING**

**MICHAEL W. HUDOBA**, Assistant Professor  
*Books, Book Chapters, and Journal Articles (peer  
reviewed)*

Liang B., Nagarajan A., Hudoba M.W., Alvarez  
R., Castro C.E., Soghrati S. Automated  
Quantification of the Impact of Defects on  
the Mechanical Behavior of  
Deoxyribonucleic Acid Origami Nanoplates.  
ASME. J Biomech Eng. 2017;139(4):041003-  
041003-8.

*Community Outreach/Service Learning*

Invited to speak to Health Pathway students at  
Westerville Central High School to introduce  
them to the field of nanotechnology and to  
discuss The Point, Otterbein University's new  
STEAM Innovation Center. Westerville  
Central High School, Westerville, OH, March  
7, 2017.

#### **DEPARTMENT OF HEALTH AND SPORT SCIENCES**

**PAUL D. LONGENECKER**, Senior Instructor

*Presentations and Posters*

Presenter, "Utilization of Evidence Based  
Practice in Hospice and Palliative Care;"  
National Hospice and Palliative Care  
Organization, National Council of Hospice

and Palliative Professionals Education, Research, and Academic Section Audio-conference; October 18, 2016.

*Service/Leadership in the Profession*

Reviewer, *The Patient Experience Journal*.

Reviewer, *Journal of Healthcare Management*.

National Hospice and Palliative Care

Organization: Member, Research Committee; Member, Work Group for Management Development Program Ethics Course Revision.

National Council of Hospice Professionals, Steering Committee Member, Education, Research and Academic Section.

Mentor, Preparing Future Faculty Mentor Program, The Ohio State University.

**KRISTY L. MCCRAY**, Assistant Professor

*Presentations and Posters*

Zonder, E., and McCray, K. (2017, March).

"Everything was chaotic;" Title IX and Florida State's handling of the Jameis Winston case. Paper presented at the Sport Recreation and Law Association Conference, Las Vegas, NV.

Guest lecturer, March 2017. Sexual Violence on College Campuses: Prevention Education for Student-Athletes. SASM 6880:

Contemporary Issues in Sport Sciences, Ohio University, Athens, OH.

*Service/Leadership in the Profession*

Member, Diversity Committee. North American Society for Sport Management, June 2015-present.

*Teaching Innovations*

Otterbein University Spotlights. (2016, October 10). Race to the Jobs teaches students about privilege. (available at <http://www.otterbein.edu/Spotlights/race-to-the-jobs-teaches-students-about-privilege>)

**SHELLEY S. PAYNE**, Associate Professor

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

Payne, S., Barrett, K., and Wilkins, J. (2016). The effect of step frequency training on a male with patellofemoral pain. *Journal of Sports Medicine and Allied Health Sciences*. 3(1).

*Presentations and Posters*

Payne S. "The use of team-based learning to support self-directed learning readiness development." Platform presentation for the 2017 International Self-Directed Learning Symposium. Cocoa Beach, FL. February 2017.

*Service/Leadership in the Profession*

Chairperson of the University Curriculum Committee, 2016-17.

Member of the University Curriculum Committee, 2017-18.

Member of the Editorial Board for the *Journal of Sports Medicine & Allied Health Sciences*.

Member of the Editorial Board for the *International Journal of Self-Directed Learning*.

Chairperson of the Ohio Athletic Trainers' Association Research & Grants Subcommittee.

**ERICA VAN DOP**, Instructor

*Honors and Awards*

Received the National Strength and Conditioning Association Tactical Strength and Conditioning Facilitator (TSAC-F) Certification.

*Presentations and Posters*

Research project presented at The Ohio State University: Laurent, D., Van Dop, E., Petosa, R. (February 2017) A Self-Regulation Based Exercise Intervention on Exercise Adherence in Adults Enrolled in a Faculty and Staff Fitness Program at OSU. The Ohio State University EHE Student Research Forum, Columbus, OH.

**PATRICIA S. WILSON**, Senior Instructor

*External Grants and Fellowships - Primary Investigator*

State Farm Service Learning Grant. \$1000.

"Leadership Mentoring through Strengths Development" FYS 1025 "Discovering and Developing Your Strengths" - Leadership Living and Learning Community course, Community Partner - Mark Twain Elementary 4th grade classes (4)

*Presentations and Posters*

- "Strengths-Based Leadership" workshop, OhioHealth Riverside Hospital Neuro, Psych, and Orthopedic Managers and Directors, December 2016.
- "Strengths-Based Leadership" workshop, OhioHealth Grant Medical Center Emergency Department Managers and Directors, November 2016.
- "Strengths-Based Teamwork in the Workplace" workshop, Columbus Public Health Environmental Health Division Supervisors, March 2017.

**DEPARTMENT OF HISTORY AND POLITICAL SCIENCE**

- MARCUS E. GREEN**, Associate Professor  
*Books, Book Chapters, and Journal Articles (peer reviewed)*  
*Gramsci Cannot Speak* (New Delhi, India: Critical Quest, 2016).  
*Sabbatical Outcomes*  
Completion of more than one-half of book manuscript entitled *Gramsci and Subalternity: From Philology to Politics. Service/Leadership in the Profession*  
Co-Editor, *Rethinking Marxism*, 2013-present.  
Secretary, International Gramsci Society, 2007-present.  
Advisory Committee, *Gramsciana. Rivista critica internazionale*, 2014-present.  
Editorial Board Member, *Rethinking Marxism*, 2010-present.  
Editorial Board Member, *International Gramsci Journal*, 2007-present.

**COURTRIGHT MEMORIAL LIBRARY**

- JESSICA CROSSFIELD MCINTOSH**, Assistant Professor/Public Services Librarian  
*Presentations and Posters*  
Exploring Information Literacy Needs Abroad: Librarians and International Service Learning, ACRL National Conference (Association of College and Research Libraries), March 22-25, 2017.

**JANE H. WU**, Professor/Systems Librarian  
*Presentations and Posters*

- Wu, Jane. (2016 March 24). Information Literacy Education (IL) in China and Its Implications for IL Instruction for Chinese Students in the U.S. Association of College and Research Libraries (ACRL) Annual Conference Poster Session, Baltimore, MD.

**DEPARTMENT OF MATHEMATICAL SCIENCES**

- WILLIAM V. HARPER**, Professor  
*Books, Book Chapters, and Journal Articles (peer reviewed)*  
Hatter-Fisher, Denise Y., and William V. Harper, "Relevance of Depression, Alexithymia and Internalized Racism to Blood Pressure in African Americans," *The International Journal of Health, Wellness and Society*, Volume 7, Issue 1, March 2017, pp.49-60.  
Braun, Robert E., Kaylee Cialella, Shelley Payne, William V. Harper, and Joan Rocks, "The Perceptions of NSAID Use among One Midwestern DIII Athletic Department," *Journal of Sport Behavior*, Vol. 40(1), March, 2017.  
Harper, W. V. 2016. Reduced Major Axis Regression. Wiley StatsRef: Statistics Reference Online. 1-6.

- PEI PEI**, Assistant Professor  
*Books, Book Chapters, and Journal Articles (peer reviewed)*  
Pei, P., Stability of Mindlin-Timoshenko Plate with Nonlinear Boundary Damping and Sources. *J. Math. Anal. Appl.* 448 (2017) 14671488.

**DEPARTMENT OF MUSIC**

- JENNIFER MERKOWITZ**, Associate Professor  
*Artistic Exhibits and Performances*  
Composed *Ellis Island* for tenor, clarinet, cello, and piano in collaboration with guest artist Daniel Neer, tenor, who wrote the lyrics. The piece was given its world premiere at Otterbein University on March 12, 2017 with the assistance of faculty members Hild

Peersen, clarinet, Jill W. Crist, cello, and Tim Huffman, piano.

#### DEPARTMENT OF NURSING

**KAY A. BALL**, Associate Professor

*Presentations and Posters*

Ball, K. (2017, February 9). Hazards of Surgical Smoke Presentation (to nurses, surgeons, technicians, students). Cambridge, OH.

Ball, K. (2017, March 22). Ohio Council for periOperative Nurses Presentation at Nurses Day at the Statehouse. Columbus, OH.

Ball, K. (2017, March 20). Are you still smoking in the OR? Breathe easier, help is on the way. International Laser Safety Conference, Atlanta, GA.

*Service/Leadership in the Profession*

Passed certification exam for medical laser safety officers (CMLSO). March 4, 2017.

#### DEPARTMENT OF PHYSICS

**DAVID G. ROBERTSON**, Professor

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

"Evaluation of the general 3-loop vacuum Feynman integral" (with S. P. Martin), Physical Review D95 (2017) no.1, 016008

*External Grants and Fellowships - Primary Investigator*

OP2: Operations Physics for Central Ohio Middle Grades Teachers (W. Sherman-Heckler and D. Robertson, co-PIs), Ohio Department of Higher Education, \$97,938.72.

#### DEPARTMENT OF RELIGION AND PHILOSOPHY

**ANDREW P. MILLS**, Professor

*Presentations and Posters*

"The Value of Freedom: Understanding Education in the Liberal Arts" Berea College Convocation Series, September 8, 2016, Berea College, Berea, KY. Address given to the entire Berea College community as the opening speaker in their annual convocation series.

*Service/Leadership in the Profession*

President (January 2017-December 2019), American Association of Philosophy Teachers. The AAPT is the only professional association of academic philosophers dedicated to improving the teaching of philosophy at the college and university level.

#### DEPARTMENT OF RELIGION AND PHILOSOPHY

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

Dey, Sreyashi (performer) and Suzanne Schier-Happell (presenter). "Shiva-Shakti and the Goddess Kali: Gender Fluidity in Hindu Mythology." Combined dance performance and presentation at Otterbein University, November 15, 2016.

Schier-Happell, Suzanne E. "The Bees Come Uninvited: Devotion to Sarada Devi Among Ramakrishna Vedantist Women in North America." Presentation at Society, Culture and Morality: East and West, Jawaharlal Nehru University, New Delhi, India, December 27-29, 2016.

Schier-Happell, Suzanne E. "Ardhanarishvara: The Paradox of Embodiment and Vedanta Philosophy." Presentation at Meaning, Art, and Culture, Derozio Memorial College, Kolkata, India, January 5-7, 2017.

Schier-Happell, Suzanne E. "The Classroom as Sacred Space: Teaching Religion in a Time of Unrest." Presentation at Midwest Regional Meeting of the American Academy of Religion, Muncie, IN, March 3-4, 2017.

Abrams, Emily (performer) and Suzanne Schier-Happell (presenter and performer).

"Interconnected." Performance/presentation at Roots: Where I'm From, Integrative Studies Symposium, Otterbein University, March 14, 2017.

**DEPARTMENT OF THEATRE AND DANCE**

**TIMOTHY J. GERCKENS**, Assistant Professor  
*Artistic Exhibits and Performances*

Lighting design for new production of *Rusalka*,  
by Antonin Dvorak and directed by Mary  
Zimmerman. The Metropolitan Opera, New  
York, NY.

Lighting Design for Metropolitan Opera  
production of *Rusalka* live simulcast into HD  
cinemas worldwide, February 2017 and  
encore rebroadcast March 2017.

**MELISSA J. LUSHER**, Associate Professor  
*Artistic Exhibits and Performances*

Dialect Coach (Texas), *Hand to God*, directed by  
Edward Carignan, Short North Stage, January  
2017.

Dialect Coach (High British, Estuary, Cockney,  
Suffolk, Dutch, Japanese), *Top Girls*, directed  
by Lenny Leibowitz, Otterbein University  
Theatre, February 2017.

Speech Coach, *Damn Yankees*, directed by Mark  
Mineart, Otterbein University Theatre,  
March 2017.

**PATRICK S. STONE**, Assistant Professor  
*Books, Book Chapters, and Journal Articles (peer  
reviewed)*

"Pulled in a New Direction: Using the Principle  
of 'Victim Control' in an Onstage Torture  
Device" published in "Tech Expo 2017:  
Theatre Technology Exhibit." United States  
Institute for Theatre Technology. (February  
2017) 19,20.



## Sabbatical Abstracts – Academic Year 2017-18 Projects

**Ashworth, Suzanne** (English, fall 2017) Dr. Ashworth's sabbatical will advance her book project: *Queer Poe*. The book excavates the connections between Poe's short fiction, the history of gender and sexuality, and contemporary queer theory. The sabbatical objectives are to revise and complete the third chapter and draft the fourth.

**Austin, Donald** (Art, fall 2017) Austin will travel extensively in the Northern Rockies to produce images to be used in posters and other designed collateral to promote the connection between the natural environment and wellness. The project will culminate in a solo exhibition in Miller Gallery including two gallery talks and the sharing of his creative process with his courses.

**Birmingham, Sheri** (Equine Science, spring 2018) There is a paucity of literature related to serum amyloid A (SAA), an inflammatory marker, and clinical endometritis in horses. Dr. Birmingham will analyze data to determine the clinical usefulness of SAA levels relative to reproductive tract inflammation in broodmares and draft a manuscript for future publication in a veterinary journal.

**Bourdage, Kristin** (Education, spring 2018) Bourdage's sabbatical project comprises two scholarly endeavors: 1) to complete data analysis of a subset of data from a one-year study of professional development in literacy instruction, and 2) to write and submit two manuscripts - a paper presentation at a national literacy conference and a publication in a literacy journal.

**Chivington, Amy** (Music, fall 2017) Seniors are positively affected through participation in music activities. Research supports that Alzheimer patients remain more functional and engaged when participating in music activities. Dr. Chivington will use music education methods to serve residents of Friendship Village of Dublin in cooperation with staff and directors.

**Chovan, John** (Nursing, fall 2017) Dr. Chovan's sabbatical project is the development of a Psychiatric and Mental Health Nurse Practitioner (PMHNP) program, with population focus across the lifespan, as a new major in the Master of Science in Nursing (MSN) degree and as a new post-master's certificate.

**Demas, Jeffrey** (Communication, fall 2017) The goal of Demas' sabbatical is to produce a self-contained, five-minute weekly commentary to be aired via a social media site such as YouTube. Demas will research, write, record and edit the pieces using our existing Avid Media Composer software. He expects to produce an academic paper discussing the efficacy of the project, and hopes to present his findings to the College Broadcasters, Inc., national conference in the form of a panel session.

**Hoggarth, Michael** (Biology and Earth Science, fall 2017) All mussels are protected in Ohio. Therefore, where impacts to mussels are predictable (bridge construction) they are relocated. This study examines the efficacy of relocating mussels. Part 1 characterizes mussel communities before relocation. Part 2 will determine the fate of mussels left behind. Part 3 determines survivorship of relocated mussels.

**Johnson, Robert** (Theatre and Dance, fall 2018)

Using cutting edge video editing and special effects software now available on the Adobe Creative Cloud, Johnson plans to create an original work for the performing arts that will include student collaboration in the areas of scenic, lighting, and sound design, as well as student acting, directing, and choreography.

**Johnston, Dean** (Chemistry, fall 2017) Dr.

Johnston will spend his sabbatical collaborating with the Cambridge Crystallographic Data Centre staff, developing computer-based analysis tools for teaching structural chemistry. He also plans to use the resources of the Cambridge Structural Database to expand his existing web-based materials for the visualization of molecular and crystallographic symmetry.

**Laurie-Rose, Cynthia** (Psychology, spring 2018)

Dr. Laurie-Rose's sabbatical project further strengthens the bridge between the fields of adult and childhood attention research. By adapting concepts and methods from adult vigilance studies, she will develop a new "child-friendly" test of attention that can respond to fluctuations in children's attention and publish one article based on this work.

**Lusher, Melissa** (Theatre and Dance, fall 2017)

Lusher will complete the first module toward teacher certification in the Michael Chekhov acting technique from the Great Lakes Michael Chekhov Consortium. Lusher will incorporate that training into her performance of Martha in a production of *Who's Afraid of Virginia Woolf?* featuring both faculty and student actors

**Mafi, Shirine** (Business, Accounting and Economics, spring 2018) Dr. Mafi's research connects Design Thinking to Positive Organizational scholarship through the lens of positive psychology. The idea germinated when she published an article "Developing Leaders for Positive Organizing" in 2016. Mafi will present at a conference and will submit her article for publication. She will also apply for recertification as quality auditor.

**Piloiu, Rares** (Courtright Memorial Library, spring 2018) Piloiu will analyze recent developments in international library science in order to offer new explanations of the processes of information transfer, interpretation, and understanding that inform the theory of information literacy. His research will result in at least one scholarly article that will be submitted for publication and conference presentation.

**Solomon, Deborah** (History and Political Science, fall 2017) Dr. Solomon will complete her book project, *Schooling Discontent: Student Protest in Colonial Korea, 1910-1945*, the first in-depth scholarly work in English to study Korean student activism under Japanese rule, and submit it to Stanford University Press for review at the request of Sociology and Asian Studies Editor Jenny Gavacs.

**Steigman, Karen** (English, spring 2018) During her sabbatical, Steigman will write chapter four of her book project on the contemporary American author Joan Didion. The chapter studies Didion's 1970 novel *Play It as It Lays* alongside Elizabeth Hardwick's 1975 *Sleepless Nights* and Renata Adler's 1979 *Speedboat*. Archival research will be conducted at the UC-Berkeley Bancroft Library and the New York Public Library.

**White, Rebecca** (Theatre and Dance, fall 2017)  
During White's sabbatical, she will create an online archive of video tutorials for theatrical makeup that will help students with homework for THR1600, for students in production work, and as a recruiting tool. White will also be exploring leatherworking to gain skill in creating leather goods for costumes such as sword belts.

**Yntema, Richard** (History and Political Science, fall 2017 and spring 2018) Dr. Yntema intends to complete his book manuscript *Beer and Burghers: Capitalism, Holland's Brewing Industry, and Political Economy, 1300-1815* and submit it to a university press for review. This study contributes to scholarly knowledge of the impact of capitalism, political economy, and consumer consumption in the growth of European economies.

#### EXTERNAL GRANT AWARDS – OFFICE OF GRANTS AND SPONSORED PROGRAMS

Otterbein faculty and administrators have received grants totaling \$108,431 since our last update, bringing the total of grants received during this fiscal year to \$261,393. Ranging widely from research to academic studies to community education, these grants support the mission of Otterbein, enhance faculty achievement and student learning, and strengthen social justice in the central Ohio community.

**STEFFANIE BURK**, Assistant Professor, Department of Equine Science

Horses and Humans Research Foundation, *The Effects of Therapeutic Riding on Stress Levels in Young Adults with Autism* (\$8,492)

The purpose of this project is to compare two different therapeutic interventions (therapeutic riding and stress management training) for effectiveness in promoting stress reduction in young adults with autism spectrum disorders. This research is designed to help us better understand the relationship of equine stress level to participants' stress level. Dr. Burk is completing a subaward for the project director, Dr. Elizabeth Kremeney, Slippery Rock University.

**DAVID ROBERTSON**, Associate Professor, Department of Physics

**WENDY SHERMAN HECKLER**, Associate Vice President for Academic Affairs/Dean of University Programs/Professor, Department of Education

Ohio Department of Higher Education, *Operation Physics (OP2) for Central Ohio Middle Grades Teachers 2016/17*. (\$97,939)

The goal of this project is to develop an understanding of basic physics among

teachers of students in grades 4-9. Teachers enroll in 5 semester hours of graduate coursework through Otterbein University that provide them with sequences of inquiry activities, demonstrations, readings and outside projects to be completed with their students. Teachers learn to recognize and challenge some common, naïve ideas in order to inspire student interest in physics concepts, encourage problem-solving, and improve student learning in topics specified by Ohio's Model Science Curriculum for Physical Science grades 4-8, and the Physical Science High School course. Teacher participants will receive approximately 90-100 hours of face-to-face instruction between the summer of 2017 and the spring of 2018. The course is team-taught by one full-time academic administrator with faculty affiliation in the Education Department, one full-time associate professor of physics at Otterbein, and two full-time middle grades teachers (from Black River and Columbus City school districts) prepared to teach specific physical science units to peers and to provide current insights on student responses to inquiry activities.

**JESSIE GLOVER**, Senior Instructor, Department of Theatre and Dance  
Puffin Foundation West, *Theatre of Conviction—Marion Correctional Institution (\$2,000)*

Between June and November 2017, teaching theatre artist Jessie Glover will work with 16 incarcerated men at Marion Correctional Institution (MCI) in Marion, Ohio to rehearse and stage a new play. The play will be developed collaboratively during spring 2017 and will feature theatrical scenes and personal storytelling as well as spoken word, rap, poetry, music, and dance. While the

specific themes will crystallize during the spring, early plans are for the play to address the issue of what hope, change, and help look like for people impacted by the criminal justice system both inside and outside of prisons. Rehearsal will last from June to September and will culminate in performances (tentatively scheduled for early October) for both "inside" and "outside" audiences in the chapel at MCI. After the performances, the Theatre of Conviction team will evaluate and collect feedback on the production.

#### 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.

**JENNIFER BENNETT**, Biology and Earth Science  
*The Identification of Cyclic di-GMP-Binding Proteins That Are Conserved Among Streptomyces*

Streptomyces are vitally important bacteria to ecology, agriculture and medicine. Our laboratory studies cyclic di-GMP signaling which controls many aspects of Streptomyces development, including antibiotic production. Bennett proposes to continue research that will identify additional cyclic di-GMP binding proteins in the agricultural pest, Streptomyces scabies and extend this study to the most widely studied Streptomyces model, Streptomyces coelicolor.

working with elephants but this way of life is changing and new approaches are needed. Berkeley's collaborators at the Golden Triangle Asian Elephant Fund (GTAEF) provide a safe livelihood for the mahout caretakers, their families and the elephants through participation in ethical tourism. This project will enable GTAEF to improve diets for their elephants, increase our general understanding of Asian elephant physiology and provide internship and research opportunities for Otterbein Zoo and Conservation Science students.

**ELIZABETH BERKELEY**, Biology and Earth Science  
*Glycemic Response and Body Condition of Working Elephants in Northern Thailand*  
Asian Elephants are increasingly at risk due to human-elephant conflict, habitat fragmentation, and poaching. Thailand has a 4000 year history of humans living and

**SHERI BIRMINGHAM**, Equine Science  
*The Use of Serum Amyloid A Levels as a Predictive Tool for Pregnancy Rates in Broodmares*

Serum amyloid A (SAA), the major acute-phase protein in horses, is a highly sensitive marker of inflammation and infection. Inflammation or infection of the uterus (endometritis) is a major cause of decreased pregnancy rates in mares and is a significant concern to

breeders and veterinary practitioners. The objective of this study is to determine the clinical usefulness of measuring SAA levels in broodmares in predicting pregnancy rates in broodmares. Blood samples from 200 mares will be acquired at 8 days postpartum, time of breeding, and 2 days post breeding, and SAA concentrations analyzed. Pregnancy will be confirmed via transrectal ultrasound at fourteen days post breeding. A comparison between the variables will be made and probability values will be computed using appropriate statistical analyses.

**SARAH BOUCHARD**, Biology and Earth Science  
*Nutritional Ecology of Ohio Frogs and Toads*  
Bouchard's research investigates the effects of pond environment on the nutritional ecology of tadpoles and frogs. Specifically, she will investigate how tadpole competition (e.g., high density or low food level) and predation threat impact growth and development by measuring intake, gut anatomy, diet transit time through the gut, and metabolic rate. The questions that she will ask are becoming increasingly important as climate change impacts amphibian developmental habitats with shifts in temperature and rainfall patterns.

**LOUISE CAPTEIN**, Art  
*Screen Printing in Fine and Applied Art*  
As an artist, Captein has a strong desire to make the utilitarian aesthetic and the aesthetic utilitarian. Since 2015, she has been extending her work as a painter and collage maker to include the applied field of surface design. During 2016, she employed screen-printing on paper and textile printing as methods to create reproducible imagery and printed products, such as printed fabric and wallpaper. Captein has been selected to continue her work in screen-printing as artist-in-residence at AGA LAB in Amsterdam during May. Her work there will lead to a series of screen prints and yardage of printed textile.

**BETH R. DAUGHERTY**, English  
*Completing the Archival Research for Virginia Woolf's Apprenticeship: The Education of a Woman Writer*

To complete her book manuscript, Daugherty must first complete the archival research underlying it. She will visit nine archives in England to 1) answer factual and interpretive questions that have arisen while writing, 2) check the accuracy of archival research already used, and 3) incorporate pertinent new material. In addition, a 5-day summer Virginia Woolf course at Cambridge University will give her access to established Woolf critics and their recent scholarship along with an opportunity to discuss her work with them.

**JONATHAN JOHNSON**, Art  
*Shawnee, Ohio*  
Johnson was commissioned by internationally recognized composer, Brian Harnetty to collaborate on the multi-media performance piece entitled "Shawnee, Ohio." This project has been funded by the Creative Capital Foundation and will include Johnson's photographs and video work of Southern Ohio Appalachian villages and landscapes. This project will be performed at the Wexner Center for the Arts (Columbus), Contemporary Art Center (Cincinnati) and Duke University.

**MARGARET KOEHLER**, English  
*18th-Century Poetry and Science: archival research*  
Koehler will use this grant to support research in the UK for her new book project on 18th-Century Poetry and Science. She will visit archives that hold primary documents (letters, manuscripts, drawings, some material objects) of several 18th-century figures who worked at the intersections of literature and science: John Aikin, Thomas Pennant, and Gilbert White. Koehler will also visit the archives of the Royal College of Physicians in London to view materials related to 18th-century medical history.

**JEFFREY S. LEHMAN**, Biology and Earth Science  
*Toxicity of Compounds from Wilted Red Maple Leaves*

Red maple toxicosis is a life threatening syndrome that occurs in horses when dried or wilted red maple leaves are consumed. This syndrome causes 1) hemoglobin to be oxidized to a dysfunctional state and 2) red blood cells to burst open. In general, clinical symptoms (including brown discoloration of mucous membranes, urine, and blood) are apparent after 48 hours and mortality is 60-65% within 3 to 6 days of ingestion. The objective of this research is to better understand red maple toxicosis from the standpoint of the identity of the toxin and the toxicity of various maple species.

**NICHOLAS HILL**, Art  
*"Passers-by" an Art Exhibition and Printmaking Studio Residency*

Building upon his residency at Caspian Cultural Center in Valparaiso, Chile in July 2016 (funded by the FSDC High Impact Grant), Hill has been invited to return to Casaplan in June, 2017 to exhibit the new body of work that he will be exhibiting in Fisher Gallery, Otterbein University, in November 2016. The work was begun at Caspian last July. The director of Casaplan has invited Hill to return to exhibit the completed series of works entitled "Passers-by" in the Casaplan Gallery and to work in the printmaking studio for a month.

*Encaustic Prints: A Solo Exhibition*

Hill has received a FSDC grant supporting his residency at Casaplan Cultural Center in Valparaiso, Chile. The gallery director at Casaplan has requested a solo exhibition during the residency. This grant will support the expenses of creating new, large-scale encaustic prints for the exhibition. Hill will work at the R&F Encaustic studio in Kingston, New York for 3-4 days. Their state-of-the-art encaustic facilities has the equipment and materials that Hill needs for the new works he is planning for the solo exhibition.

**SHANNON LAKANEN**, English  
*On Post-Loss Signals: Travel Essay Writing in Iceland*

Lakanen will travel throughout western and southern Iceland to conduct field research for a personal essay exploring the ways in which her relationship with and (mis)understandings of her father, who was an arctic surveyor early in his career, have served as both an inspiration and a warning to her as a mother and a traveler. The rich collection of geographic and geological metaphors Lakanen encounters will serve the "underbelly" of the essay: the uncanny simultaneity of intimacy and disconnection in our relationship, the beauty and inhospitality of exteriors, as well as the possibility of engaging with "otherworldliness" without leaving the planet.

**SHELLEY PAYNE**, Health and Sport Sciences  
*Use of Screening Protocol and Step Frequency as Predictors of Running Related Injuries*

This research is a continuation of Payne's scholarship line. In 2015-16 she was awarded a FSDC grant to help with the outfitting of the Biomechanics Institute in the newly remodeled Center for Health and Sport Sciences. This grant was instrumental in providing Payne with expert consultation to set up the space and has allowed her to work more collaboratively with those in her field to develop this project. This project has enabled Payne to continue to develop a sustainable line of biomechanical research utilizing the new space and equipment in the Health and Sport Sciences Biomechanics Institute.

**DAVID C. SHERIDAN**, Biology and Earth Science  
*Microscopic Imaging of Activated Neurons*  
The purpose of this grant is to acquire a microscope and animal subjects for student research projects. First, an inverted laboratory microscope would facilitate data acquisition for student research projects; the department does not currently own such a

microscope. Secondly, Sheridan would like to purchase a Fos-eGFP transgenic mouse breeding pair to produce animal subjects. Currently, isolated neurons are purchased from a commercial vendor; as a cost savings measure, he would like to purchase animals and teach students to isolate neurons for their experiments. In his lab, we image anatomical changes and record physiological responses of individual neurons to stimuli.

*A Modular Upright, Fixed Stage Microscope for Experiments in Neuroscience*

The purpose of this grant is to acquire simple components to build a modular, upright, fixed stage microscope for experiments involving live neurons. Commercially available microscopes cost ~ \$40,000. Recently, a research paper was published that gives instructions for building a low-cost, upright fixed stage microscope for ~\$5000 (Beltran-Parrazal et al., 2014). This modular microscope uses commercially available parts that significantly reduces the cost and increases the "flexibility" of the microscope. Parts can be added or subtracted to the modular microscope to suit the needs of the scientist.

**DEBORAH SOLOMON**, History and Political Science  
*Schooling Discontent: Student Protest in Colonial Korea, 1910-1945, domestic archival research*

Solomon will use this grant to do the final archival research necessary to complete her book project. In *Schooling Discontent: Student Protest in Colonial Korea, 1910-1945*, she provides a close study of student activism over the course of Japanese rule of Korea, utilizing a wide range of Japanese- and Korean-language primary materials, including confiscated student protest manifestos, school records, newspaper

articles, police interrogation logs, court records and oral interviews with former protest participants and witnesses.

**UWE TRITTMANN**, Physics  
*Research in Germany*

Trittmann's proposes to do on-site research for a textbook, to be used in his IS astronomy class, in Weil der Stadt, Germany, birthplace of Johannes Kepler. Furthermore, Trittmann plan to visit scientists affiliated with the University of Hamburg to propel his line of particle physics research.

**PATRICIA WILSON**, Health and Sport Sciences  
*Strengths Development and the Effects on Students and Teachers Self-Efficacy in Late Elementary Classrooms*

This study will examine the effects on self-efficacy of late elementary (4<sup>th</sup> or 5<sup>th</sup> grade) students and their teachers through the use of Strength Explorer and Strengthfinder surveys and follow-up activities.

**RICHARD YNTEMA**, History and Political Science  
*Archival Research on the Pioneers and Political Economy of Distilling in the Dutch Republic*

Despite the prosperity and significance of Holland's distilling industry in the 18<sup>th</sup> century, little is known about the history and origins of Holland's distilling industry in the first half of the 17<sup>th</sup> century. While the production and per capita consumption of distilled liquors was negligible in the late 16<sup>th</sup> century, by the late 17<sup>th</sup> century the production and consumption of distilled liquor skyrocketed and was widespread in Holland and across Northern Europe. This research project contributes to our knowledge regarding the growing consumption of distilled liquor in the Dutch Republic and the role of guilds and political economy in this.

### 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.

**SHERI BIRMINGHAM**, Equine Science

*The Use of Serum Amyloid A Levels as a Predictive Tool for Pregnancy Rates in Broodmares*

Serum amyloid A (SAA), the major acute-phase protein in horses, is a highly sensitive marker of inflammation and infection. Inflammation or infection of the uterus (endometritis) is a major cause of decreased pregnancy rates in mares and is a significant concern to breeders and veterinary practitioners. The objective of this study is to determine the

clinical usefulness of measuring SAA levels in broodmares in predicting pregnancy rates in broodmares. Blood samples from 200 mares will be acquired at 8 days postpartum, time of breeding, and 2 days post breeding, and SAA concentrations analyzed. Pregnancy will be confirmed via transrectal ultrasound at fourteen days post breeding. A comparison between the variables will be made and probability values will be computed using appropriate statistical analyses.

### 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.

**CARLA CORROTO**, Sociology, Criminology and Justice Studies

**JOAN ESSON**, Chemistry

**PAUL WENDEL**, Education

*Science, Cultural Heritage, Sociology, and Power in Renaissance-and Modern-era Italy*

Broadly, this is an investigation of "material culture" through the lens of natural and social sciences. The goal is to lay the groundwork for new travel abroad courses to Italy that will connect historical artifacts

to modern modes of analysis developed in chemistry, physics, and sociology. Specifically, these will be applied courses in chemistry related to cultural heritage, the study of Renaissance-era scientific devices, and how the art and science of architecture inform social power. The proposed courses will offer Otterbein students hands-on investigations and a deeper understanding of culture, natural sciences, and social sciences in a cross-cultural context.



**CENTER FOR TEACHING AND LEARNING**  
***Professional Learning Communities***

**NEW FACULTY PROFESSIONAL LEARNING COMMUNITY**

**KATHRYN PLANK**, Center for Teaching and Learning, facilitator

**CARLA CORROTO**, Sociology, Criminology, and  
Justice Studies

**MICHAEL HUDOBA**, Engineering

**STEPHEN OSBORNE**, Business, Accounting, and  
Economics

**PEI PEI**, Mathematical Sciences

**SUZANNE SCHIER-HAPPELL**, Religion and Philosophy

**TEACHING FOR TRAVEL PROFESSIONAL LEARNING COMMUNITY**

**MICHELE ACKER**, Psychology, co-facilitator

**GERMAN VARGAS RAMOS**, Center for Teaching and Learning, co-facilitator

**ELIZABETH BERKELEY**, Biology and Earth Science

**KRISTINA ESCONDO**, Modern Languages and  
Cultures

**AMY JOHNSON**, Art

**SHANNON LAKANEN**, English

**JEFF LEHMAN**, Biology and Earth Science

**HALARD LESCINSKY**, Biology and Earth Science

**PAUL LONGENECKER**, Health and Sport Sciences

**KRISTEN BOURDAGE**, Education

**CARRIE SCHECKELHOFF**, Education

**DENISE SHIVELY**, Communication

**EXPLORING INNOVATIVE TECHNOLOGIES IN TEACHING AND LEARNING PROFESSIONAL LEARNING COMMUNITY**

**PEGGY McMAINS**, Center for Teaching and Learning, co-facilitator

**COLIN SAUNDERS**, Center for Teaching and Learning, co-facilitator

**AARON FAULKNER**, English as a Second Language

**VICTORIA FRISCH**, Modern Languages

**AMANDA KLINE**, Art

**PAUL LONGENECKER**, Health and Sport Sciences

**BRUCE MANDEVILLE**, Equine Science

**MARIA TARBELL**, Leadership and Business,  
Accounting and Economics

**DEVELOPING WRITERS FROM HIGH SCHOOL THROUGH COLLEGE PROFESSIONAL LEARNING COMMUNITY**

**KATHRYN PLANK**, Center for Teaching and Learning, co-facilitator

**WENDY SHERMAN HECKLER**, Academic Affairs, co-facilitator

**JANIS COFFEY**, Columbus City Schools, South High  
School

**GWENDOLYN DEROSA**, English as Second Language

**AMELIA GORDON**, Columbus City Schools, South  
High School

**TAHNDIA HAWKINS**, Columbus City Schools, South  
High School

**TAMMY JONES**, Columbus City Schools, South  
High School

**REGINA KENGLA**, Academic Support Center

**MARGARET KOEHLER**, English

**STUART LEO**, Columbus City Schools, South High  
School

**MICHAEL LEVIN**, Business, Accounting and  
Economics

**DANIEL O'GRADY**, Columbus City Schools, South  
High School

### **CTL Moderator Certification (Collaborate)**

**JEFF ANKROM**, Academic Affairs  
**STEFFANIE BURK**, Equine Science  
**KRISTY DROBNEY**, Academic Support Center  
**PAUL EISENSTEIN**, Academic Affairs  
**T.J. GERCKENS**, Theatre and Dance  
**BEVERLY GISH**, Nursing  
**JESSIE GLOVER**, Theatre and Dance  
**SARAH HICKEY**, Library  
**LINDSAY KERKA**, Education  
**TIFFANY LIPSTREU**, Library  
**TERRY MAGAS**, Graduate School  
**DIANE NANCE**, Office of Sponsored Programs  
**KRISTI NORTH**, Academic Affairs  
**MIGUEL MARTINEZ-SAENZ**, Academic Affairs

**AMY PARSON**, Library  
**REGINA PRUSINSKI**, Nursing  
**ALLEN REICHERT**, Library  
**KATHERINE REICHLEY**, Academic Affairs  
**SHARON SANTINO**, Business, Accounting and Economics  
**GRETCHEN SASFY**, Academic Affairs  
**BARBARA SCHAFFNER**, Academic Affairs  
**DAVID SCHNEIDER**, Registrar Office  
**WENDY SHERMAN HECKLER**, Academic Affairs  
**JEFFREY SMITH**, Mathematical Science  
**KELLY STOLL**, Academic Affairs  
**SUSAN THOMPSON**, Mathematical Sciences  
**JANE WU**, Library

### **Center for Teaching and Learning – Conference Presentations**

**KATHRYN PLANK**, *Director, Center for Teaching and Learning*  
**PEGGY McMAINS**, *Program Coordinator, Center for Teaching and Learning*  
**COLIN SAUNDERS**, *Senior Learning Designer, Center for Teaching and Learning*  
**GERMAN VARGAS RAMOS**, *Instructional Design Support*

McMains, P., Reichley, K., (2016). *“Providing Accreditation Professional Development at All Levels.”* Franklin University Innovations in Teaching and Learning Conference, Columbus, OH, June 10.

McMains, P., (2016). *“Unconventional and Informal Assessment of what Students Value.”* Franklin University Innovations in Teaching and Learning Conference, Columbus, OH, June 10.

Saunders, C, (2016). *Moderator Certification for Collaborate Ultra: Influencing Campus-wide Change*, Blackboard World, Las Vegas, July 11-14.

Escondo, K. and Vargas Ramos, G. E., (2016). *“Walking the Talk and Talking the Walk: Living the Language of Diversity and Inclusion.”* Otterbein University, Westerville, OH, May 5.

Vargas Ramos, G. E., (2016). *“Emerging Models to Promote and Support Pedagogical Innovation.”* Franklin University, Columbus, OH, June 10.

Edwards, P., Vargas Ramos, G. E., et al. (2016). *“Building a social media presence for Centers and educational developers”* (pre-conference workshop). POD Network Conference, Louisville, KY, November 10.

Vargas Ramos, G. E. & Andersen, K. (2016). *“Deep Learning: New Faculty Developers and POD’s Communities of Practice.”* POD Network Conference, Louisville, KY, November 10.

Vargas Ramos, G.E. (2017). *“Emerging Models to Promote & Support Pedagogical Innovation”* (Live online presentation). Transforming the Teaching and Learning Environment Virtual Conference, Pennsylvania State System of Higher Education, February 16.

Vargas Ramos, G.E. and Escondo, K (2017). *“Walking the Talk and Talking the Walk: Learning and Living the Language of Diversity and Inclusion.”* University of Kentucky, Louisville, KY, April 20.