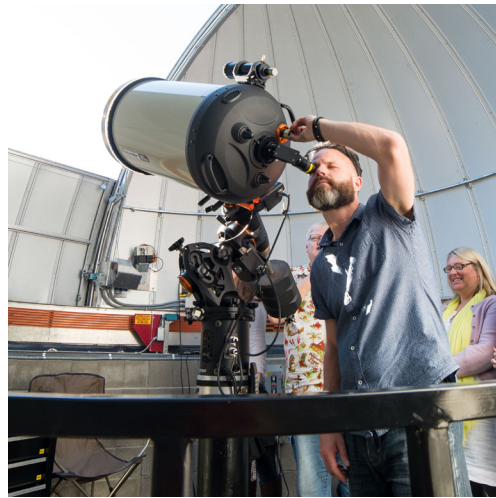


2017/2018



# YEAR IN REVIEW



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Editor: Stephanie Wilczynski

Designer: Diane Myers

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All photos were provided by the Andrews University Office of Integrated Marketing & Communication, unless otherwise noted.



## DEAN'S MESSAGE

What makes the Andrews University College of Arts and Sciences (CAS) unique? We, like many educational institutions, feel that the education offered centers on the active involvement of students, teachers, and disciplinary content in an environment of earnest engagement. So how does

the AU CAS distinguish itself in this educational market? Besides being the academic heart and soul of the whole university, woven into the very fabric of our college is the commitment to our Seventh-day Adventist faith. We are, unapologetically, a college that is clearly committed to SDA Christianity. Our commitment is to engage all ideas within the environment of a community of faith. This is a place where believing educators, who are committed to the SDA principles of faith, engage with both students and the marketplace of ideas. This is a place where students are encouraged to absorb the Bible at a deep and nuanced level from an SDA perspective and worldview. What we study is the latest in disciplinary knowledge and, at the same time, an ancient but ever relevant faith. Our goal of learning is to aim for nothing short of women and men who will begin a lifelong process of grappling with the questions of the purpose of education and life in the kingdom of God.

As you will see reflected in this *Year in Review*, the CAS experienced another exciting year. Our internationally recognized faculty were recognized for their excellence in teaching, in research and creative scholarship both for themselves and for involving students, and in service to the community. Our faculty received fifty-six grants, published seventy-four peer reviewed and thirty seven general publications, contributed one hundred eighty-seven presentations at national and international academic conferences, contributed fifty-three artistic presentations, and mentored dozens of undergraduate and graduate students.

As you explore this brief review of the 2017-18 school year you will read about how the CAS supported the University Change Day by participating in a wide variety of service projects. You will see that students publish with their faculty mentors, make presentations at academic conferences, win significant awards as they compete with major institutions, and experience a special comradery with peers and faculty alike. One of our Math majors received the prestigious Barry Goldwater Scholarship. The Department of History and Political Science sponsored the Martin Luther 95 Theses Conference. Several departments conduct evangelistic outreach, international tours and mission trips.

Our motto is, "*Class is over, please stay*". Come join us in our faith-infused learning environment where we are committed to a faith seeking understanding. Browse our website (<https://www.andrews.edu/cas/>) for more information about our departments and programs of study.

*Keith Waddington*

**THE 2017-18 YEAR** was a time of increased momentum for the Undergraduate Leadership (ULead) Program in its move to a new academic home in the College of Arts & Sciences. As a result, the program increased its staff, added new class offerings, and enjoyed more interdisciplinary contact and collaboration.

## New Curriculum for the ULead Program

The ULead Program, in partnership with Michael Nixon (VP for Diversity and Inclusion), launched a new course entitled *Diversity and Inclusion in Leadership*. This course was a response to student desire for dialogue about cultural identity, gender, age, religion, sexuality, and disability. Students were invited to ask questions of various guest lecturers representing different perspectives, resulting in many lively class discussions.

In an effort to encourage learning through personal reflection, specialized journals were created for both the *Diversity and Inclusion* and *Fundamentals of Leadership* courses, helping students to think critically about each class. This allowed our students to process day-to-day problems and apply leadership skills.

We also began a Short Course curriculum designed to give attendees a snapshot of our program, teaching students to “Lead Self. Lead Others. Lead Organizations.” Topics included how to “Lead Self” through classes on time and stress management; how to “Lead Others” through conflict resolution, cultural understanding, and speaking truth to power; and how to “Lead Organizations” by learning elevator pitch techniques, practicing interview tips, and learning the developmental stages of a new organization. It also provided an opportunity to partner with other departments on campus who could bring their expertise into the leadership realm.



## Interdisciplinary Collaboration

In an effort to better communicate the goals of the ULead Program to both internal and external audiences, we created a new website, and marketing materials for different demographics. We used our tools and resources to do leadership training for Griggs University, the Physical Therapy new student orientation, and classes in the Nursing, Business, Visual Art, Communication and Design departments, along with AUSA student leaders.

As of May 1, 2018, forty-nine undergraduate students declared a Minor or Certificate in Leadership – the most in our 8-year history. Our director, Emily Carlson, was honored with the Student Association Teacher of the Year award. Our proudest accomplishments, however, belong to our students. These included a new, annual Kente Stole and Rite of Passage ceremony for Andrews students; an improved rubric for hiring nursing instructors; a student loan awareness curriculum for incoming freshmen; an art gallery featuring stories of the homeless population in Michigan; and a new library for the Benton Harbor Charter School. These Change Projects are just a few of the important ideas conceived and implemented by our graduating class.

## Increased Momentum and Outcomes

The coming year presents new challenges for ULEAD as our current Director, Emily Carlson, is moving and student workers are graduating. Assistant Director, Kari Prouty, will be present to provide continuity and an alumnus of the ULead Program, Heather Moore, will be our new Graduate Assistant.



# > HUMANITIES

ENGLISH

CENTER FOR INTENSIVE ENGLISH PROGRAMS

HISTORY & POLITICAL SCIENCE

INTERNATIONAL LANGUAGE & GLOBAL STUDIES

MUSIC

RELIGION & BIBLICAL LANGUAGES

**THESE PHOTOS ARE** the bookends of our 2017-2018 year in the Department of English. The beginning of our story shows English faculty and students at the first academic assembly of the fall semester, poised on the brink of a new school year and all its possibilities. The graduation picture shows the glorious culmination of every academic year when graduates and faculty celebrate together the accomplishments of the new English BAs and MAs. Between this beginning and this end, the Department of English wove a complicated plot involving eight months, two semesters, dozens of classes, many early mornings and late nights, papers, exams, grading sessions, conferences, discussions, eating together, vespers, friendships, laughter, and prayer. Let us pick a few faces out of this cast of characters to show the highlights they brought to our story.

Change Day 2017, in September, found English faculty and students helping at work sites all around Berrien County. English students Alexi Decker and Nicole Hwang, for instance, along with faculty Beverly Matiko and Meredith Jones Gray, helped organize the children's book collection at the Eau Claire Public Library. Ivan Davis, associate professor, volunteered at the Timbertown playground project.

Ingrid Radulescu, junior English major, had a very full and exciting year. In November, at the annual conference of the National Collegiate Honors Council in Atlanta, she presented a poster on her honors research, which she is doing under the direction of Monique Pittman, professor of English and director of the J.N. Andrews Honors Program. The title of Ingrid's poster presentation was "The Romanian Bard: Translating Shakespeare for a Post-Communist Nation." Ingrid then spent her spring semester in Washington D.C., participating in The Fund for American Studies Capital Semester. There she took classes and interned at The American Academy of Diplomacy, a non-profit association of former senior US ambassadors and high-level government officials whose mission is to strengthen American diplomacy. Ingrid says, "Overall it was an incredible opportunity to be able to explore how the nation's capital operates and discover what my next steps are for graduate school and a career in global affairs."

Brian White and Jacqueline Martinez, both TESOL MA students, along with fellow student Ruth Mwashinga and their faculty mentors, Janet Blackwood, Asta LaBianca, Dianne



Staples, and Christian Stuart, attended in March the TESOL International Convention and English Language Expo in Chicago, Illinois, the premier professional conference in the field of Teaching English to Speakers of Other Languages.

Julia Kim, who was promoted to full professor this year, published four peer-reviewed scholarly articles, including a submission to the *Journal of Academic Ethics* which she co-authored with colleague Asta LaBianca entitled "Ethics in academic writing help for international students in higher education: Perceptions of faculty and students."

Department of English senior honors students Kyrk Defino, Nicole Hwang, and Emma Magbanua, under the mentorship of Professors Corredera and Pittman, presented their honors projects at the Spring 2018 Honors Thesis Symposium.

Vanessa Corredera, associate professor of English and new chair-elect of the Department of English for 2020-2021, received the College of Arts and Sciences Undergraduate Research Mentor Award in the Humanities at the final faculty meeting of the year.

And Scott Moncrieff, professor of English, who was behind the camera for the first picture but appears in the graduation photo, provides the closing chapter for our year. Graduation night he left for Greece and Turkey on the Bible Lands Study Tour to teach a Studies in Literature course in classical literature.

These excerpts tell the story of our year: stimulating classes, engrossing scholarship, professional development, and rewarding service.

Website: [andrews.edu/english](http://andrews.edu/english)

Facebook: [Andrews University Department of English](https://www.facebook.com/AndrewsUniversityDepartmentofEnglish)

# CENTER FOR INTENSIVE ENGLISH PROGRAMS

Text: Dr. Christian Stuart / Photos: CIEP faculty and staff



**AS THE OFFICIAL** English-as-a-second-language (ESL) center on the Andrews University campus, CIEP serves Andrews students who need to demonstrate English-language proficiency before beginning their academic programs of study and individuals from the community and beyond who come to Andrews to learn English. With these two groups of students in mind, the CIEP faculty continued to develop the curriculum this year. We also created several new partnerships with departments and schools across campus and collaborated on research projects with faculty in the English Department.

Continuing a trend seen over the past few years, more than sixty individual students from over twenty different countries studied in CIEP this year. This is especially remarkable given the fact that many college and university ESL programs across the country have seen enrollment numbers decrease over the last couple of years. Depending on their level of language proficiency when they arrived, some CIEP students studied English for one semester, while others continued progressing and building proficiency throughout the year. Many moved on to either undergraduate or graduate programs at Andrews. On average, fifteen to twenty students moved from CIEP to academic programs at An-

draws each semester, including the summer. Also, non-degree students enrolled in CIEP classes from the surrounding community, including several with ties to the Whirlpool Corporation.

Furthermore, CIEP continued efforts and began new collaborations with departments and schools across campus. On behalf of the School of Business, CIEP provided Test of English as a Foreign Language (TOEFL) training to a cohort of ten students from Wenzhou Medical University, a university in China, on the Andrews campus in July 2017. In September 2017, the CIEP Director, Dr. Stuart, traveled with Drs. Ralph Trecartin and Jerry Chi to China to oversee language testing for cohorts of students intending to study in the

School of Business Administration. In March 2018, Professor Janet Blackwood, on behalf of CIEP, traveled with Dr. Chi to China and Taiwan to continue these efforts. From this collaboration alone, nearly twenty students from China and Taiwan enrolled in AU classes this past year, and SBA is expecting nearly sixty students for an SBA “summer camp” in July 2018. In addition, during the Spring 2018 semester, Dr. Stuart visited Middle East University and Hong Kong Adventist College on behalf of the School of Distance Education and International Partnerships (SDEIP) to observe language programs serving off-campus partnerships, clarify language requirements for these partnerships, and recommend customized solutions to language-requirement challenges.

Finally, several CIEP faculty collaborated with other English Department faculty on research projects. For instance, Professor Asta LaBianca collaborated with Dr. Julia Kim on a paper published in the *Journal of Academic Ethics* that examined international students’ perceptions of ethics in writing. In addition, Dr. Stuart and Dr. Ivan Davis received an AU Faculty Research Grant for 2018-2019 to continue work on a longitudinal study, started in the 2017-2018 school year, examining how undergraduate students transfer knowledge about writing from first-year college writing classes to their other classes throughout four or more years of college.

Website: [andrews.edu/cas/English/esl](http://andrews.edu/cas/English/esl)  
Facebook: [Andrews University Center for Intensive English Programs](https://www.facebook.com/AndrewsUniversityCenterforIntensiveEnglishPrograms)





**THE DEPARTMENT OF** History and Political Science had a vigorous year with the biggest event being the Martin Luther 95 Theses Conference last November. The event hosted international and national speakers on a wide variety of topics related to the Reformation, Church History, Martin Luther, and the 95 Theses. This event lasted two days and scholars presented from Concordia Seminary, Spicer Adventist University, Andrews University, University of Utrecht, University of Mary, University of St. Gallen, Gustavus Adolphus College, University of Texas, Pacific Union College, and the University of Warwick. Additionally, pastors and conference officials attended and spoke at the event.

Additionally, our department met every Tuesday from 11:30-12:20 for colloquium meetings which allow students to have the opportunity to hear academic professional presentations on a wide variety of topics. This year, department faculty and guests presented on a variety of political and historical topics. Our presentations, including both current and heritage presentations, continue to be part of the AU student life programs and are attended not just by our department but by students from many programs.

In January, our history honors



society students, Shianne Pierre, Nestor Caceres, Jon Philippe Ruhumuliza, Laisa Vakaloloma, and Joshua Saunders traveled with Dr. Carpenter to New Orleans, LA for the National Biennial Phi Alpha Theta Convention. Our students presented papers to conference attendees; Dr. Carpenter served on the panel at several sessions.

Our department continues to fundraise for the Brian E. Strayer scholarship fund. In order to be endowed, we must reach \$15,000 overall to activate the account. We are getting close, but need to continue to fundraise to meet the goal. You can donate directly through check or online at [www.andrews.edu/give](http://www.andrews.edu/give) or through Andrews

University payroll deductions. Dr. Strayer has gifts for the various levels of support that are provided.

Dr. Carpenter served as department chair and History Professor, Dr. Dronen as pre-law and advisor and professor of legal studies, Dr. Markovic served as History Professor, Dr. Myers as Political Science Professor, and Dr. Wood as Political Science Professor. We thank Dr. Dronen for her service to the legal studies program. David Mann served as the Administrative Assistant. We look forward to another great year!

Website: [andrews.edu/history](http://andrews.edu/history)  
 Facebook: [Andrews University Department of History and Political Science](https://www.facebook.com/AndrewsUniversityDepartmentofHistoryandPoliticalScience)

# DEPARTMENT OF INTERNATIONAL LANGUAGES AND GLOBAL STUDIES

Text: Hannah Choi and Dr. Pedro Navia / Photos: (top) provided by Hannah Choi, (bottom) Malachi Regis



**THE DEPARTMENT OF** International Languages & Global Studies is always looking for providing students with opportunities to experience cultures and learn foreign languages in the most creative and singular ways. That is why, other than attending classes on campus, students have the opportunity to study abroad in one of the ten international schools participating in the ACA program. During the 2017-2018 school year, 28 Andrews University students took advantage of this great opportunity. On top of that, the ILGS Department has designed study tours for students who would like to experience foreign cultures and languages for only few weeks. During the month of May 2018, a group of 24 students traveled to South America to experience in person the rich and diverse culture in which there are still strong evidence of the indigenous presence co-existing with European, African, and Asian immigrants. In fact, the largest community of Japanese immigrants is currently located in Brazil.

Faculty members not only teach or do research but also design field trips. During the academic year, students taking language, culture, and literature classes had opportunities to participate

in several field trips. One of the Spanish classes went to Chicago to see two plays dealing with issues affecting the Hispanic communities here in the US as well as abroad. A French class went to the Alliance Française in Chicago for a cuisine class where they prepared, baked and ate a three-course menu: Quiche, salad with its vinaigrette and Pêche Melba dessert. After lunch, students watched “The Little Prince” in French with English subtitles.

We all know that students come to Andrews looking for unique academic, social, and spiritual opportunities. Some of them take advantage of what Andrews has to offer and this is what happened with Hannah Choi, who became a world traveler, and a world changer. This is her testimony:

“Five years, nine roommates and housemates, twenty-eight countries, hundreds of cultures, thousands of incredible people. I was a wide-eyed young fresh-

man, yet to meet my adult self. What did it mean to dream big? Graduate, get a well-paying job, and make money?”

It wasn't until the second semester of college did it dawn on me that I could take opportunities that Andrews had to offer. I overheard some friends sharing their excitement about studying abroad the next year.

Eight months later, I was on my way to Sagunto, Spain. When I arrived, I could say next to nothing in Spanish, but as I began my classes, I quickly found that I loved being able to understand a culture more deeply just by learning a language, and that I could connect with people in a way that I could never connect before. Spanish became my major, and traveling, learning languages, and exploring the world became my dream.

God called me to the mission field that next year. I served as a volunteer English teacher in Southeast Asia. That year gave me time to reflect on what God was teaching me through my travels and my experience. There is a deep value in connecting with people in their heart languages. When people see how much others value, respect, and seek to understand their culture, their hearts are often softened to hear about what makes the Gospel message so special.

A year later, a string of countless, unrelated events led me to work on my senior honors thesis in Lebanon. It was an effort to listen to and share the stories of young Syrian refugees. Throughout that project, I learned that God calls us to “speak up for those who cannot speak up for themselves... to defend the rights of the poor and needy” (Prov. 31:8, 9, NIV).

We look forward to keep providing the best opportunities to all Andrews University current and future students.

Website: [andrews.edu/cas/inls](http://andrews.edu/cas/inls)  
Facebook: [International Languages and Global Studies](#)







**2017-2018 WAS AN** exciting and vibrant academic year for the Department of Music. The Howard Performing Arts Center inaugurated the Sunday Series season with the Department of Music Faculty Composition Recital, featuring original works by Kenneth Logan, Max Keller, Stephen Zork and Adriana Perera. Prof. Perera, who is the newly appointed Chair of the Department of Music, is an active composer and international lecturer in the topic of Music and Worship. She is currently finishing her doctorate in Composition from Universidad Católica de Argentina. Her research interests encompass both composition and music and worship. Her second book, *More than Music: Worship* was translated from Spanish into English in August 2017. The Department of Music has been pleased to welcome the addition of two new professors to our faculty this school year: Byron Graves and Max Keller. Byron Graves is the new Wind Symphony conductor and Music Education Area Coordinator. This year Prof. Graves has served as a clinician for Michigan Conference Elementary Band Clinic, Indiana Conference Music Festival and Florida Conference Festival of the Arts in Forest Lake Academy. Prof. Graves has completed doctoral coursework at Boston University and is currently working on his dissertation research on the topic of student belonging to a high school band. Max Keller is the new Coordinator of Music Theory and Composition. He holds a Doctorate of Music in Composition and Theory from Mahidol University (Thailand). His dissertation *The Genesis: A Symphonic Work and Analysis* is an orchestral work and musical exegesis of

the creation account found in the Book of Genesis. Outside of his duties at Andrews University, Dr. Keller is actively pursuing both acoustic and electronic composition and arrangement projects while also continuing to develop, record, and produce online multimedia music theory lessons.

In January, the Department of Music was thrilled to feature 5 radiant finalists of the Young Artist Competition: Jeremy Ahn (piano), Donn LaTour (Violin), Zachary Randolph (Voice), Grant Setingweg (Cello) and Taemin Yoon (Piano). They did a magnificent job performing as soloists with the AU Symphony Orchestra. A high level of professional activity is a hallmark of the AU Department of Music. In March, Charles Reid, professor of voice and vocal area coordinator, won Andrews University's Humanities Division Siegfried H. Horn Creative Research Award. This prestigious award recognizes a remarkable and continuous commitment to research and creative activity. During the month of April Chi Yong Yun, Director of Piano Studies at Andrews University Department of Music culminated her Doctorate of Musical Arts in Piano Performance and Literature at The University of Illinois at Urbana-Champaign. As the recipient of many honors and awards, Dr. Yun has performed as a recitalist, collaborative musician, and lecturer throughout the world. This year, some of her performances included Piano Concerto No. 4 in G Major, Op. 58 by L.V. Beethoven, with the Southern Adventist University Symphony Orchestra and the Andrews University Symphony Orchestra. During the Spring, Dr. Yun has been an ambassador of Andrews University in Korea, where she

presented several piano recitals and Master Classes and was invited to give a solo performance at the prestigious TLI Arts Center concert series in Seoul.

University Singers and Chorale, under the direction of Stephen Zork performed eleven public concert programs with varying repertoires ranging from early Baroque to the premiers of compositions by Andrews University music faculty and Department of Music students. In the spirit of inclusivity, University Singers and Chorale hosted three full-length collaborative concerts featuring three active on-campus choirs: Girls of Mercy, Journey, and Deliverance Mass Choir.

Kenneth Logan, our organ professor, premiered several of his compositions for mixed choir, and organ solo. *Jesus, Keep Me Near the Cross*, one of his compositions for mixed choir and organ, was performed at Southern Adventist University Honors Choir Festival, Tennessee.

In addition to their current series at the Howard Performance Arts Center, the AU Symphony Orchestra travels nationally as well as internationally. Under the leadership of Claudio Gonzalez, the String Orchestra toured Rumania, Hungary, Austria and the Check Republic in May, where they presented a series of concerts. Carla Trynchuk, Director of the String Program, collaborated with the String Orchestra as the violin soloist. Prof. Trynchuk has had an active year as a soloist and adjudicator for string and chamber music competitions and festivals throughout the United States.

Website: [andrews.edu/music](http://andrews.edu/music)

Facebook: [Andrews University Department of Music](#)

# THE DEPARTMENT OF RELIGION AND BIBLICAL LANGUAGES

Text and Photos: Dr. Glenn Russell



*Carlos Tavarez preaching on the mission trip to Lebanon.*

**"FAITH SEEKING UNDERSTANDING"** has been the theme for the Department of Religion and Biblical Languages for the 2017-2018 school year. Anselm stated, "I do not seek to understand that I may believe, but I believe in order to understand." This dynamic interaction encapsulates our departmental perspective for faculty and students.

One of the highlights of the early portion of the school year was the Annual Retreat featuring Dr. Rodney Palmer, our new professor of praxis. The very well attended retreat provided spiritual inspiration and built relationships within the department. A second retreat took place during spring semester sponsored by the ministerial club.

The Religion faculty have been active in professional growth events and scholarly contributions. Every faculty member presented papers, assisted in planning scholarly meetings, published articles and attended professional seminars. In May 2018, Ruben Muñoz directed the large multi-discipline study tour to the Mediterranean. We also partnered with Behavioral Sciences on the excellent Peru study tour.

In terms of assessment, the department had a major contribution to make to the AAA self-study documents and site visit. A rigorous program review was completed in May 2018. We look forward to implementing the insights gained from these experiences.

The Department of Religion focuses on mission and evangelism. In May 2017, Erhard Gallos and Glenn Russell conducted a field school of evangelism in Honduras. The team of 22 students planted 8 churches and conducted evangelism campaigns at 9 locations. In December, Glenn Russell led a team of students and church volunteers back to Honduras for a second mission outreach, this time conducting a day camp for children and serving the Hogar de Niños orphanage. Honduras is the second most impoverished Caribbean nation. In recent years, the Seventh-day Adventist church has expended resources helping guide people out of poverty in this region, and, most importantly, to a saving knowledge of Jesus Christ.

Also during December, Ruben Muñoz led a team of scholars to document the Route of the Exodus for future classes in the Spanish Ministry Initiative that our department recently launched. This program is designed to provide people with a certificate in Spanish Ministry upon completion of the program.

The faculty are also regularly involved in pastoral ministry on the Andrews campus and in the local community. Susan Zork enjoys her pastoral role with the One Place congregation, Erhard Gallos directs the Compass collegiate Sabbath and actively preaches in area churches. Ruben Munoz and Davide Sciarabba are providing leadership for the Spanish Ministry initiative. In March, Dr. Russell directed the annual mission trip to Lebanon where students conducted campus evangelism. Rahel Wells is a leader in the University Senate and area ministry events. Rodney Palmer has begun developing the new Praxis program for the Department. In addition to teaching the many general education religion courses and the classes for religion and theology majors, the department continues to provide numerous online theology courses.

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Website: [andrews.edu/cas/religion](http://andrews.edu/cas/religion)

Facebook: [Andrews University Religion Department](https://www.facebook.com/AndrewsUniversityReligionDepartment)



*Mission team in Lebanon*

# > STEM

AGRICULTURE

BIOLOGY

CHEMISTRY & BIOCHEMISTRY

ENGINEERING & COMPUTER SCIENCE

MATHEMATICS

PHYSICS



Here are the highlights from the Department of Agriculture in 2017-18:

## Teaching

We have been revising the curriculum for our programs over the past few years, and this process included adapting some of our classes for distance education. This past fall, we offered our first on-line class, HORT 150 iGrow, to high school students and had a good enrollment. Based on their students' experience with that class, the faculty of Upper Columbia Academy (Spangle, Washington) have decided to offer a full year sequence of our classes next year: HORT 150 iGrow in fall 2018 and ANSI 114 Introduction to Animal Science in spring 2019. We are delighted to be in partnership with the school, and hope more will join them in the future.

## Research and Scholarship

The faculty in our department have been collaborating with two other departments on campus: Garth Woodruff with the Department of Public Health, Nutrition, and Wellness, and Katherine Koudele with the Medical Laboratory Science (MLS). Woodruff co-authored an abstract, "A mixed-method multiple-case study of three business models for local healthy food delivery system in underprivileged urban areas" which won an award at the Food & Nutrition Conference in Chicago last October. It was based on research done with the Mobile Farmers Market we've been developing for the past several years.

Katherine Koudele is collaborating with faculty from the MLS on a dairy cow health research project using a Faculty Research Grant that she was granted in May 2018. She is also collaborat-

ing on another dairy cow health project with the Michigan State University College of Veterinary Medicine.

## Student Activities and Achievements

**Change Day:** In September 2017, Andrews held its first Change Day when classes were cancelled and the students would participate in one of many service projects around the community. Some of the students from our department cleaned out the community gardens near Apple Valley Market. Others went to the Therapeutic Equestrian Center near Watervliet, MI and helped with cleaning saddles and stalls, painting a run-in shed, and cleaning up the horse paddocks around the barn. Our students also operated our display at the Career Fair that was set-up at the same time in the Johnson Gym. They interacted with a number of visitors from Benton Harbor High School.

**Student Club:** The student club officers decided to expand their organization from just "Pre-vet" to all majors in our department, so dubbed the new club the "Flora & Fauna Club." They were very active this year and had numerous events such as a bonfire supper and vespers, animal socialization at the Berrien County Animal Control center, a trip to Shedd Aquarium in Chicago, and hosting the veterinarian from the Potawatomi Zoo (South Bend, IN) as a guest speaker.

**Senior Showcase:** In April 2018, we had our first ever Senior Showcase open house where the graduating students displayed their capstone projects in landscape design or international agriculture development. (*See photo*)

Website: [andrews.edu/agriculture](http://andrews.edu/agriculture)

Facebook: [Andrews University Department of Agriculture](https://www.facebook.com/AndrewsUniversityDepartmentofAgriculture)



### Andrews Ecology Class Goes to South Florida and Cuba

This past year, our department initiated a new effort to combine our General Ecology course and our field courses. While students still have the option of taking General Ecology on campus, they now can meet that requirement by taking a field course to either South Florida or Cuba.

The field course to Florida was led by Associate Professor Daniel Gonzalez-Socoloske and Adjunct Professor Gordon Atkins. On March 15, 2017, professors and 13 eager students departed Andrews. After two days of driving, students were introduced to Florida wildlife by observing the state mammal during a visit to the manatee observation point in Tampa Bay. “What struck me was seeing all these man-made objects, like the power plant smoke stacks, and yet right next to them you see all these wild manatees using the areas; the juxtaposition between industry and nature was intriguing,” noted biology graduate student Roshelle Hall.

Students visited several important natural areas in South Florida including Big Cypress National Preserve, Everglades National Park, the Ten Thousand Islands, and the Florida Keys. Trip highlights included snorkeling with sharks in Looe Key, birding next to alligators at Anhinga Trail, and a “moderately straining” 6-mile canoe trip to an uninhabited island in the Ten Thousand Islands.

Students were also able to observe humankind’s impact on nature first hand. South Florida has experienced much

change since Andrews first started visiting more than 20 years ago: Florida has added an additional 5 million inhabitants, invasive species like the Burmese python have greatly reduced native mammal populations, and large hurricanes have wiped out areas that we used to visit.

In spite of these negative impacts, students were able to see positive change in the region as well. After many decades, manatees have been recently removed from the state endangered species list due to successful conservation efforts. Students got to see these conservation efforts in action as they witnessed a manatee rescue. In addition, students got to learn about and observe several of the new wildlife passes the state has constructed to protect the endangered Florida panther from being hit while crossing roads, and they were able to see early effects of efforts to return the regular flow of water to the everglades.

In May 2017, 12 Andrews biology students participated in the first biology field course to the island of Cuba. The field course was taught by Associate Professor Daniel Gonzalez-Socoloske and Adjunct Professor Bill Hayes (Professor of Biology at Loma Linda University). Students received lectures in Cuba by Gonzalez-Socoloske and Hayes, as well as from several Cuban scientists, including Dr. Alejandro Barro, professor of Biology at the University of Havana, who accompanied us throughout the whole trip.

Students spent a total of 14 days in Cuba and were able to visit several unique

ecological areas within the archipelago including the valley of Viñales with its unique limestone “mogotes,” Zapata swamp where the endangered endemic Cuban crocodile is found, and the Isla de la Juventud where Dr. Gonzalez-Socoloske has been studying manatees for the past 4 years.

Trip highlights included observing bats and other cave creatures in Viñales, observing reef fish, manatees, and sea turtles during the snorkeling trips in the Bay of Pigs and Punta Frances National Park in the Isla de la Juventud, and observing almost half the endemic birds of Cuba including the bee hummingbird and the Cuban tody. Most importantly, students were able to interact on a personal level with several Cuban biologists and with the host families and learn about life in Cuba. Like the trip to Florida, students were presented with both the negative and positive effects that humans have had on the environment, and a special time was given where we were all able to share and discuss what our responsibility toward the environment is as Christians. “As a Christian, we are called to be stewards of the earth,” said Julianne Johnson, sophomore biology major. “The main conclusion I left with is to care for everything to the best of my ability: people, animals, and plants.” Andrews biology plans to return to Cuba with another group of students in the summer of 2019.

Website: [andrews.edu/biology](http://andrews.edu/biology)

Facebook: Andrews University Biology





## Change Day

Our Dr. Desmond Murray was one of the designers of the first annual Change Day, and has received one of the first Andrews Heart Awards for his efforts. Students from our department helped to create a beautiful mural of influential African American leaders and pioneers at a Benton Harbor school. Others shared stories of their home countries with elementary students. More students joined crews trimming bushes and clearing leaves at local parks. A few completed painting projects for elderly community members. The day was a blessing for all who were involved, faculty, students and community.

## 2018 Graduation

Every year our graduates shine. This year's class will be heading to medical school, work as a nursing aid, dental school, industry internship, missionary service, pharmacy school, chemistry graduate school.

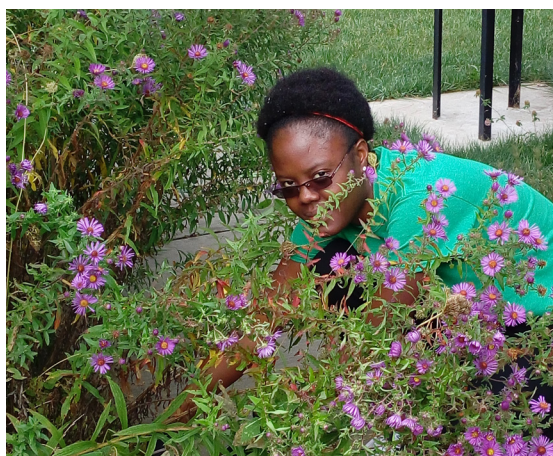
## Bruce E. Lee Service Award

Dr. Ryan Hayes has received the Bruce E. Lee Service Award. Ryan is a member of the Faith and Science Council the head of our Andrews ChemServices business, a reviewer and editor of scholarly journal articles, a textbook reviewer, and a beloved mentor to students.

Ryan brings positive energy and an upbeat attitude to everything he does. Congratulations, Ryan!

Website: [andrews.edu/chemistry](http://andrews.edu/chemistry)

Facebook: Andrews University Department of Chemistry and Biochemistry





## Strike! Andrews Students Wins Second Place

In March 22-23, 2018, three of our Engineering students and one Calvin College student won second place in the 2018 Stryker Engineering Challenge, which is held annually. This year there were six teams that participated: Michigan Tech, Western Michigan University, Notre Dame University, Purdue University, Miami University (Ohio), and Michigan College Alliance. Since Andrews University is a part of the Michigan Colleges Alliance, our three students Darrick Horton, Eric Anderson, Justin Wiley, and the Calvin student Levi Vande Kamp participated in the MCA team and placed second behind the engineering juggernaut Michigan Tech.

The event began at 3 p.m. on March 22 with a tour of the Stryker facilities, ensued by a product demo. At 6 p.m. the student teams were served dinner, and while they were partaking of their meal they had the opportunity to ask questions to a panel of Stryker Engineers. The Stryker Challenge began after dinner at 7 p.m.

The teams were asked to construct a tower from toothpicks and marshmallows. There was also homework and technical challenge questions that were supposed to be completed beforehand for points. The main event was to design and build a remotely controlled vehicle. The vehicle had to traverse through an obstacle course, find and pick up Lego Figures and bring these figures back to their pit

area. Points were given when figures were brought back to the pit.

The competition had two parts: the first part involved 20 minutes of picking up Lego figures, and the second part was a time trial obstacle course race where each team had to use three different drivers. Michigan Tech won first place in the technical challenges and homework, followed by Miami and Purdue. MCA shared fourth with Western.

In the vehicle challenge, Purdue won the first part followed by Michigan tech and MCA in second. Part two was won by Michigan Tech, followed by Western and then MCA in third. The result

was Michigan Tech winning the overall challenge, with MCA placing second and Purdue in third. A professor of engineering at Andrews University, Gunnar Lovhoiden Phd was present supporting the students at the competition, "I think our team worked really well together. Their design worked well and they represented MCA with honor. Second place—how about that!"

## Dr. Kwon received the NSF funding for the ECL sensor Project!

Ever wonder about the limitless possibilities our cell phones can achieve? Dr. Kwon (Phd) sure did; with her expertise in Chemical Engineering, she is creating an Electrochemiluminescence (ECL) sensor using current mobile technology to make it both affordable and more efficient. Cell phone technology has advanced in recent years, with many having built in sensors, the cameras on a mobile phone can be used as detectors for biosensors. The ECL biosensor will be used to diagnose biomarkers of various diseases such as cancer, and will be the ideal tool to use in response to rescue and recovery in cases of disasters. The project involves the collaboration of engineering, computer science, and public health.

Website: [andrews.edu/ecs](http://andrews.edu/ecs)

Facebook: [facebook.com/ecsau](https://www.facebook.com/ecsau)



From left: Rodney Summerscales, Padma Uppala, Hyun Kwon

# DEPARTMENT OF MATHEMATICS

Text: Karen Johnson-McWilliams / Photos: Karen Johnson-McWilliams and Dr. Shandelle Henson

**ON SEPTEMBER 12, 2017**, the Andrews University chapter of Sigma Xi, the Scientific Research Honor Society, inducted five AU students and one professor: Dorothea and Christiana Gallos (senior BS Mathematics majors doing research with Dr. Henson); Darrick Horton (sophomore BS Physics and BSE Mechanical Engineering major doing research with Dr. Jay Johnson); Mykhaylo Malakhov (second-year BS Mathematics and BS Computer Science major researching with Dr. Henson); Dillon Zimmerman (2017 BS Chemistry/Math Studies graduate working on his MAT in 2017-18, having done research in several REUs during his undergraduate education); and Dr. Jay Johnson, Professor of Engineering and Computer Science. Each of the inductees shared a brief presentation on his/her research before the membership ceremony. Dr. Lauber De Souza Martins organized the event, and Dr. Gary Burdick, Dean of the Office of Scholarly Research, facilitated the induction. A few weeks later, on October 6, Timothy Robertson (2017 BS Mathematics), currently pursuing his PhD in mathematics at the University of Tennessee, Knoxville, was also inducted into Sigma Xi when he came to give an eigen\*Talk.

On Saturday evening, December 2, 2017, seven Andrews University students participated in the 78th William Lowell Putnam Mathematical Competition: three women—Lucinda Ford, Christiane Gallos, Dorothea Gallos (all fourth-year BS Mathematics)—and four men—Devin Garcia (first-year Chemical Engineering/Math Studies), Darrick Horton (second-year BS Physics/BSE Mechanical Engineering), Mark Kent (second-year BSE Electrical Engineering and Computing), and Mykhaylo Malakhov (second-year BS Mathematics). This is the first time that Andrews University has joined universities across North America for this incredibly hard math exam. Dr. Anthony Bosman, our new professor of Mathematics, spent several Sunday mornings throughout the fall, studying with the students over breakfast.

The exam included two three-hour sessions with six problems per session. Most universities have a session in the morning and one in the afternoon, with a long break between sessions. However, because the competition is always on the first Saturday in December, the Andrews students did not start the competition until after Sabbath was over, meaning that they started

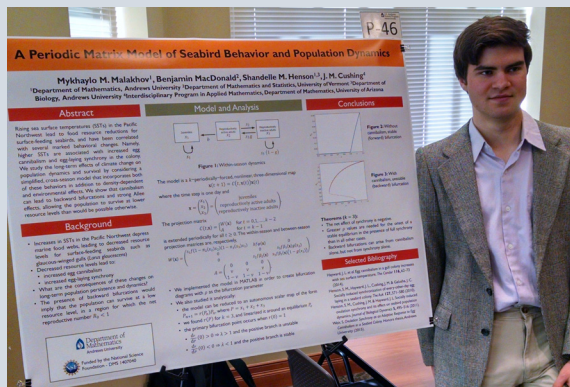


From left to right around the base of the globe: Lucinda Ford, Christiane Gallos, Dorothea Gallos, Mark Kent, Devin Garcia, Mykhaylo Malakhov, and Dr. Anthony Bosman, faculty sponsor. On top of the globe are Darrick Horton and his friend Isaac Hatfield, who was visiting for the weekend but did not take the exam.

at 5:30 and had only a half-hour break between sessions in order to meet the midnight cut-off time. The students worked independently on the problems for individual prizes, but the competition also involved a team aspect in that each school with at least three participants can pick three students as its team. The Andrews team members were Christiane Gallos, Mark Kent, and Mykhaylo Malakhov. Each problem received a score of 0 to 10 points, with points earned according to the extent to which students show all the necessary work to justify an answer and all the necessary steps of a proof.

Website: [andrews.edu/math](http://andrews.edu/math)  
 Facebook: Andrews University Department of Mathematics

STUDENT SPOTLIGHT



In March 2018 the Barry Goldwater Scholarship and Excellence in Education Foundation announced 211 scholarship recipients and 281 Honorable Mentions chosen from a field of 1,280 natural sciences, mathematics, and engineering students nominated by over 2,000 colleges and universities nationwide. Six scholarship recipients were from Michigan colleges (four from the University of Michigan, one from Michigan State, and one from Andrews University). The AU recipient was Mykhaylo Malakhov (second-year BS Mathematics). Mykhaylo plans to earn a PhD in Mathematics and conduct research that “bridges the gap between pure and applied mathematics, and engage underrepresented groups in the mathematical sciences at the university level.” As a Goldwater Scholar, Mykhaylo will receive a two-year scholarship of \$7,500 a year.



*Tiffany Summerscales, Mickey Kutzner, Rachel Heffelfinger, and Jessica Pottle on the occasion of the X-ray equipment being turned on for the first time. Note the visible glow of the X-ray tube just above the Leybold label.*

## X-RAYS FOR EVERYONE

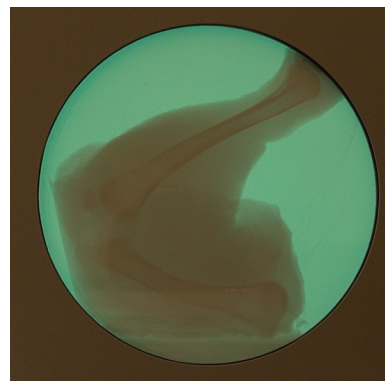
Originally, the 'X' in 'X-ray' alluded to the unknown and esoteric. In time, everybody has come to consider X-rays a common, familiar medical and dental option but not so much a common educational tool. Now with a new multi-function Leybold X-ray laboratory apparatus, we can move towards making X-rays a valuable educational option at Andrews.

The Leybold system replaces the vintage 1950's General Electric unit that served Andrews physics students and faculty in the 60's and 70's for research but fell into disuse in the 80's due to licensing and repair issues. Used equipment donations and new miniature replacements presented too many logistical and technical complications, and borrowing time from Whirlpool and other nearby institutions with X-ray equipment was too constrained and regimented. Our students needed hands-on, continuous access for creative and extended applications of their own design in a safe environment. X-ray experiments remain essential in credible undergraduate laboratory coursework and research. Fortuitously, innovation and technological advances came together with our needs at a price point we could afford. For approximately \$80K, provided through the continuing success of AU Physics Enterprises, we could bring direct X-ray learning not only into the Physics department, but also into the departments of Biology, Chemistry, Material Science, Engineering, and Interdisciplinary Science Education. We could spice up general education courses like Mythbusting and Astronomy in ACE, and Concepts and Applications in Physics in the RESA Math-Science Center, and in the near future, we could truly make "X-rays for everyone" a possibility



through the new Institute of Innovation and Entrepreneurship and its growing Maker Space.

Open form design gives users clear views of the workings of the apparatus, while lead glass protects them from radiation. Small-and-tidy, the Leybold fits into limited spaces. Versatile and loaded with features and computer controls, it supports over 40 basic experiments as well as fun observations of teeth, chicken bones, and whatever else piques interest and fits into the chamber. A fluorescent screen shows light transmission and demonstrates X-ray photography, CAT scans and the effects of contrast media. A digital X-ray camera provides higher resolutions for explorations into atomic structure. Two students in Interdisciplinary Science and Nursing registered for an X-ray Studies course and joined professors Mickey Kutzner and Tiffany Summerscales in putting this advanced instrument through its first paces and tested the "X-rays for everyone" concept. Four junior and senior Physics students tested technical aspects in their Advanced Physics Laboratory work: a Geiger counter mounted on a goniometer provided Bragg reflection and energy data, and an X-ray photographic plate



recorded Laue patterns and other evidence of crystal structure. The first data collection and analysis elicited palpable excitement with regards to the quality of the instrument and the plethora of creative activities it encourages. Accompanied by Optical Tweezers and an Atomic Force Microscope, this X-ray instrument completes the usual ensemble in working biomedical physics laboratories and thus will have particularly lasting impact on students interested in Biomedical Physics to advance their chosen careers in medicine, medical physics, and biomedical engineering.

Website: [andrews.edu/physics](http://andrews.edu/physics)  
Facebook: Andrews University Department of Physics

# > SOCIAL SCIENCES

BEHAVIORAL SCIENCES

COMMUNITY &  
INTERNATIONAL DEVELOPMENT

VISUAL ART, COMMUNICATION, & DESIGN

JAMES WHITE LIBRARY

SOCIAL WORK



*Members of the Puerto Rico Mission Trip 2018*

**THIS YEAR, THE** Department of Behavioral Sciences had the unique opportunity to co-sponsor with the Lake Union Conference of Seventh-day Adventist, a mission trip from March 15-25, 2018, to Puerto Rico in order to provide disaster mental health support to those that had been affected by Hurricane Maria several months earlier. Dr. Melissa Ponce-Rhodas took the lead in coordinating the response trip that consisted of an interdisciplinary team of 20 faculty, staff, and undergraduate and graduate students from Andrews University. “Accept, Talk, Heal” was the theme of the trip which focused on providing crisis intervention, fostering resilience, and teaching other relevant psychoeducational topics for children and adults that helped to empower them to care for themselves and others within their community, as well as reduce the stigma associated with mental health. While in Puerto Rico, the team had an opportunity to partner with Antillean Adventist University and the Puerto Rican Conference of Seventh-day Adventist to provide disaster mental health services to over 1,000 community members.

The department has also been blessed in regards to faculty awards and advancement. Two of our faculty were publicly recognized for their contributions to Andrews University. Dr. Herbert Helm, Jr. was honored for 30 years of faithful service, while Dr. Joel Raveloharimisy was granted tenure. Professor Kristen Witzel successfully completed her doctoral comprehensive exams and was also honored with a 2018 Department-Level Graduate Research and Creative Scholars Award from the Department of Sociology at Western Michigan University. Our department is blessed and honored to have such faithful and hard-working colleagues.

Research activity among our faculty this year has been strong. This has included co-publishing with our

undergraduate and graduate students in peer-reviewed scholarly journals. The Behavioral Sciences Department continues to provide a strong research contribution to College of Arts Sciences.

This year we are also proud of our student researchers:

We sent 28 students with Drs. Bailey, Burnett, Helm, and Ponce-Rhodas to the annual Midwestern Psychological Association conference in Chicago in early May. There were 11 poster presentations with 10 undergraduate students and one faculty.

This year’s Michigan Academy of Science, Arts & Letters (MASAL) was held at Central Michigan University. We had 3 faculty chair a discipline section. We also had 2 faculty, 5 undergraduate, and 2 graduate students present their research, while 5 presented poster presentations.

Five students attended the 2<sup>nd</sup> Southwest Michigan Psychology Undergraduate Research Conference on April 6<sup>th</sup> which was hosted by the Western Michigan University Chapter of Psi Chi. Oral presentation were provided by 4 students, while 1 student provided a poster presentation. Talisa Gonzalez received 2<sup>nd</sup> place and Ivy Cooper received 3<sup>rd</sup> place for the oral presentation session, while Torian Hill received 3<sup>rd</sup> place for the poster session.

Our department was very excited about the academic achievements of several of our seniors who graduated this year and were accepted into graduate programs. Leiali’i Edwards (Psychology – Occupational Therapy and Pre-Professional major) was accepted to the Adventist University of Health Services; Richelle Pichot (Psychology – Pre-Professional major) was accepted to Andrews University; Nicole Liernur (Sociology – Criminal Justice and Psychology – Pre-Professional major) was accepted to both, Kingston University and Brunel University in London, while Jessica Stelfox (Psychology – Pre-Professional major) was accepted to Arizona State University.

Webpage: [andrews.edu/bhsc](http://andrews.edu/bhsc)

Facebook: [Department of Behavioral Sciences - Andrews University](https://www.facebook.com/DepartmentofBehavioralSciences-AndrewsUniversity)



*BHSC Department students and Dr. Karl Bailey who attended the 2<sup>nd</sup> Southwest Michigan Psychology Undergraduate Research Conference on April 6<sup>th</sup> which was hosted by the Western Michigan University Chapter of Psi Chi.*

# COMMUNITY & INTERNATIONAL DEVELOPMENT PROGRAM

Text: Dr. Joel Raveloharimisy and Maya Wilson / Photos: Joshua Pazvakawambwa



**THE COMMUNITY & INTERNATIONAL** Development Program (CIDP) offers interdisciplinary study in humanitarian and development field at both the undergraduate and graduate level. This unique approach equips students with the skills needed to identify and respond to social and economic challenges across the globe. Program concentration options offer in depth training—preparing students for professional service in academia, policy, advocacy, project management and administration.

## 2018 Madagascar Study Tour

A valued component of the CIDP learning experience includes an annual study tour to Madagascar. Students have the opportunity to build upon their skill set by working alongside local villagers in understanding community needs, available resources, and potential solutions. Faculty mentors and specialists help guide students through the project life cycle and encourage periods of self-reflection.

This year's tour participants included CIDP students and members of the Andrews University chapter of Engineers Without Borders (EWB). The initial spark for this collaboration took place in 2016 when a CIDP student approached EWB members to gauge their interest in establishing a project in Madagascar. A pre-assessment was completed and as a result, 4 EWB students joined the tour with plans to set the framework for solar-powered lighting in the village of Ambatolampy, Toamasina region. Dr. Libby Jones, from the University of Nebraska-Lincoln, was the faculty advisor for this project. Additional dialogue with the community led to a formal contract on timeline and commitments needed for seeing the project to completion over the next 5 years. Students also served surrounding villages by providing medical and school supplies.

The 2019 Madagascar Study Tour participants will work with a shelter project for survivors of abuse and human trafficking.

## Messages from Madagascar

Excerpt – email message from John Press, CIDP Graduate Student on Summer 2018 tour to Madagascar:

“The study tour team arrived safely in Tamatave last Friday. Although it was a long bus ride from Antananarivo, the diversity and beauty of the scenery along the way made it well worth the trip. On Sabbath, we had the privilege of worshipping at a small church that is reaching out to young people through English-speaking services. The members warmly welcomed us, and it was a blessing to worship with them. In the afternoon, we enjoyed a much-needed rest and our first glimpse of the Indian Ocean.”

“Sunday and Monday, we traveled to the village of Ambatolampy to conduct a needs assessment and project identification and setup. The trip included a 45-minute hike through lush, green hills and a river crossing to reach the village. The people of Ambatolampy were so hospitable ...”

“Yesterday and today, the team is focused on meeting some of the immediate needs expressed by the villagers. In addition, four members of the Andrews University chapter of Engineers Without Borders are traveling with us, and they will lay the groundwork to bring solar-powered lighting to Ambatolampy. On Thursday, we will return to Antananarivo.”

“The trip was a wonderful experience.”

## 2nd Annual Career Fair

The CIDP executed their 2nd annual Career Fair in Fall 2017. Successful collaborative efforts with the School of Business provided Andrews University students the opportunity to meet with 30 business representatives. Plans are now underway for the Fall 2018 career fair taking place on October 2nd.

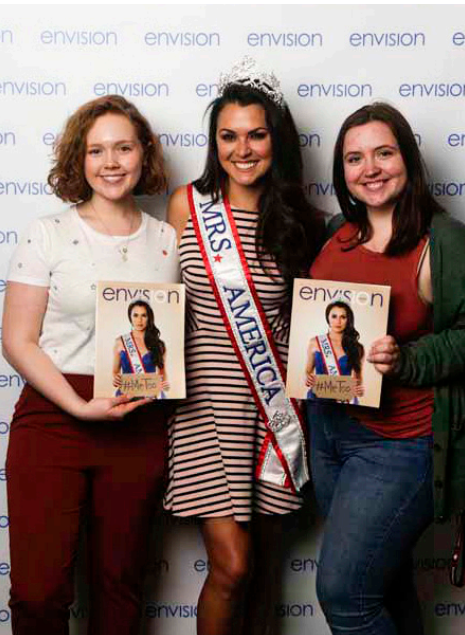
If you would like to learn more about the CIDP program, find ways to donate to CIDP tour projects, or are a business interested in obtaining a booth at future CIDP career fairs, please email [cidp@andrews.edu](mailto:cidp@andrews.edu).

Webpage: [andrews.edu/cas/behavioral/cidp](http://andrews.edu/cas/behavioral/cidp)  
Facebook: Andrews University Community and International Development





VACD faculty gather in Chicago at the start of the school year.



Students Taylor Scalzo, *Envision* cover designer (left) and Jessica Condon, cover photographer (right), pose with with Mekayla Eppers, reigning Mrs. America, at the *Envision* issue #10 launch in the Student Center, April 26, 2018.

**THE YEAR BEGAN** for the Department of Visual Art, Communication & Design with a major recognition. One of our senior film projects, *Sisterly*, garnered significant recognition from the Academy of Motion Picture Arts and Sciences by receiving a student Academy Award nomination—the world’s top student film competition that involves hundreds of universities and thousands of submissions.

The department also recruited top talent in three communication faculty positions. Heather Day, assistant professor for communication, is the author of 5 books and a sought-after presenter and motivational speaker. She is also a writer for *Christian Woman Magazine*, *Faithfully Magazine* and *Gorgeous2God*, and takes on the role as editor for our award-winning *Envision* magazine.

Everett Wiles, assistant professor for communication, is a media professional with over 20 years experience in the field of media production, holding a Masters Degree from New York Institute of Technology in Media Management and TV Production. Formerly, he was the General Manager for the NCU Media Group, overseeing the day-to-day operations of radio, television, and commercial media production.

Lynn Caldwell, associate professor for communication, is a veteran professor and public relations professional. She returns to Andrews University after having taught here extensively in the 1990’s, including stints at other universities as well as a major role as the Public Relations officer of the General Conference of Seventh-day Adventists.

Under the leadership of professors Heather Day and Diane Myers, *Envision* magazine launched one of its strongest issues ever. Having an exclusive cover story of Mrs. America joining the #MeToo movement, the narrative outlines Mekayla Eppers’ efforts to take the stigma out of sexual abuse.

The Department of Visual Art, Communication & Design is also excited to have launched a new and exciting program designed around where the communication and media markets are heading. The Bachelor of Science in Digital Communication is the new flagship degree of the communication side of the department, and pulls heavily on the digital media and creative tools that the department has excelled in for many years.

Website: [auvad.com](http://auvad.com)

Facebook: Andrews University Department of Visual Art, Communication & Design

# THE JAMES WHITE LIBRARY

Text: Lawrence W. Onsager and By Xiaoming Xu

## The “Bible of the Bear”

As part of the celebration of the 500th Anniversary of the Reformation, Andrews University had the privilege of participating in a display of rare books entitled “Let the Books Tell the Story” (throughout October 2017) hosted by Concordia University in Chicago. The president of Concordia requested a temporary loan of our treasured first edition of Casiodoro de Reina’s *Biblia del Oso* (“Bible of the Bear”) (1569). Casiodoro de Reina was a Spanish Lutheran theologian who translated the Bible into Spanish.

This remarkable display of rare books included J.S. Bach’s personal Bible – the “Calov Bible” which has Bach’s personal signature and notes, the Augsburg Confession (1531), Erasmus’ New Testament (1519), Luther’s *Freedom of the Christian* (1521), and a leaf from the Gutenberg Bible (1455).

In addition to Andrews, a number of other institutions partnered with Concordia for this display; the Newberry Library (Chicago), Wheaton College (Wheaton, IL), Concordia Theological Seminary (Ft. Wayne), Concordia Seminary (St. Louis), and the Lutheran School of Theology (Chicago).

## 3-D Printer Lab at the James White Library

The James White Library has implemented a seven station 3-D printer lab in Media Services.

The lab is supervised by Steve Sowder, systems librarian, and Rozenia Marinho, the media services manager.

## Food Fair; Raising Funds for the Student Scholarship Fund through AU Institutional Food Fair

Raising funds can be fun and meaningful. It can provide a stage

for students, library staff, and friends to get involved.

Each year, my husband and I look forward to and plan this event. We go shopping for a variety of food ingredients and cook up a dozen or so different dishes. Seminary student Yafu Qu has helped to decorate the booth for three years in a row and his wife has helped by cooking noodle dishes. Mrs. Ong, originally from Taiwan, also helped cook noodle dishes and serve food at the booth. Each year we raise about \$700-\$1,000 toward the scholarship fund.

I was very grateful that I was able to come to Andrews to study because of the scholarship fund someone established years ago. It helped me to pursue my degree at Andrews University. Upon graduation in 1993, I talked with my husband and, with his full support, we decided to establish a scholarship fund to help others.

The Chinese Student Scholarship Endowment Fund became active in 1995. Since then, every year one or two students receive some help with this fund. We are happy to see that we can be helpful to those students with financial strains who come to Andrews to study. We are also glad to get students, library staff and friends involved in this fun and meaningful event for a good cause.

The photographs here show students, library staff, and friends involved in the fundraising event from past years. Chinese students from Andrews Academy and Andrews University actively participated and enjoyed the Food Fair. Students returning to Andrews often volunteer each year.

Website: [andrews.edu/library](http://andrews.edu/library)

Facebook: [James White Library Andrews University](https://www.facebook.com/JamesWhiteLibraryAndrewsUniversity)



**DURING THE 2017-2018** school year the Social Work Department was active in “changing the world” with overseas initiatives in Thailand and Puerto Rico. In addition to their usual teaching responsibilities, they also engaged in research projects aimed at addressing a wide range of social justice issues and worked on departmental reaccreditation.

In a partnership with Advocates for Southeast Asians and the Persecuted (ASAP), two ASAP staff, four social work students, and one professor, Ingrid Slikkers, traveled to the Mae Ra Moe Refugee Camp, located on the border of Myanmar and Thailand. These refugees fled their native land in Myanmar with stories that included rape and deaths in the jungle, landmines, and separation from loved ones due to forced displacement. Such trauma impacts generations and healing must begin with intentional and relational interventions. The team conducted trauma awareness sessions for the local church, teachers, and many students. The sessions focused on brain function, the senses and how trauma healing can begin.

Similarly, trauma awareness and mental health education were also taken to Puerto Rico six months after Hurricane Maria became the island’s strongest storm in 85 years. Partnering with the Behavioral Sciences Department, Alina Baltazar and Krista Cooper took five MSW students to address the long-term mental health needs of Puerto Ricans in light of this disaster. The theme for the trip was “Acepta, Habla, Sana”; “Accept, Talk, Heal.”

Psychoeducation and self-care presentations were delivered to government officials, first responders, and community members based on risk factors for depression, addiction, and PTSD. Students and faculty made presentations to an estimated 1,000 individuals across 30 locations on the island including schools, churches, a disaster distribution site, a college, and government offices. Additionally, many more were reached through sermons and interviews broadcast on television and radio.

Research conducted by Curt VanderWaal and Shannon Trecartin, in



partnership with faculty in the Adventist Theological Seminary and School of Education, explored issues surrounding family acceptance and rejection among Seventh-day Adventist LGBT Millennials. In addition to publications and presentations, data from the study were used in a new North American Division family and church resource guide titled *Guiding Families of LGBT+ Loved Ones: Adventist Edition*. Other research included Krista Cooper’s ongoing qualitative interviews with women living with symptomatic uterine fibroids and presentations and a publication on the needs of Afro-Caribbean women with HIV/AIDS. In addition, Alina Baltazar continued her research on risk and protective factors among SDA college students, as well as stressors among SDA families with female pastors. Finally, Shannon Trecartin published research on the relationship between personal competence and psychological well-being on the physical home environment among older adults.

Other faculty have been active in the department as well. Margaret Howell continues to build our MSW dual degree programs with the Seminary and the Community and International Development Program, with an MSW/MBA dual degree scheduled to begin this fall. Ingrid Slikkers’



skills in trauma informed care have kept her in high demand at conferences and training seminars. Desi Davis continues to anchor our BSW program and is providing valuable leadership in our departmental reaccreditation efforts. Twyla Smith has worked hard to improve both the efficiency and effectiveness of our field education processes. And finally, our amazing, always-interesting and efficient office manager, Susie Oliver, is retiring after 12 years of service to our department. She will be impossible to replace and we will miss her deeply.

Website: [andrews.edu/sowk](http://andrews.edu/sowk)

Facebook: [Andrews University Department of Social Work](https://www.facebook.com/AndrewsUniversityDepartmentofSocialWork)

# > AWARDS

TEACHING AWARD

RESEARCH AWARD

CAS SERVICE AWARD

CAS RESEARCH MENTOR AWARD



## 2018 DANIEL A. AUGSBURGER EXCELLENCE IN TEACHING AWARD



### **Gunnar Lovhoiden (Engineering)**

As a teacher, Gunnar Lovhoiden is loved by all the engineering students because he genuinely cares for them. He teaches many electronics lab courses where students build circuits and often run into unforeseen problems. He patiently troubleshoots both

their big and small problems and teaches them practical aspects of engineering. His knowledge is not just based on theory but on years of experiences. He challenges his students to think independently and brings out their best performance. Students say that Gunnar often takes extra time to help them. He even changed an exam to include a similar problem to make sure students actually understood it, which was greatly appreciated.

Gunnar is always ready when students need his extra help. His dedication comes from his firm belief in Christian education. He shows an example of a good and caring Christian and also has a great sense of humor. When students go to class, they are ready to laugh and learn, and this makes a huge difference. Simply put, Gunnar Lovhoiden knows how to resonate with students and we are so happy to have him as engineering faculty.

## 2018 SIEGFRIED H. HORN EXCELLENCE IN RESEARCH & CREATIVE SCHOLARSHIP AWARD



### **Charles Reid (Music)**

The Bible portrays King David as the “favorite singer of Israel.” One of our favorite singers here at Andrews University is Charles Reid. Charles Reid is recognized as one of this generation’s leading lyric tenors. He has sung on many of the most famous international

stages, including nine seasons with New York’s Metropolitan Opera, as well as performances with the San Francisco Opera, Frankfurt Opera, and the festivals of Salzburg, Bayreuth and Spoleto USA, among others.

His most recent performances include an engagement with the National Opera Bastille, Paris and a CD release on the prestigious classical music label Naxos as well as debuts in Germany,

France, Spain, Italy and Mexico. Renowned critic Gabor Halasz wrote about him: “Charles Reid gave a vocal and musical performance without any limitations or boundaries, with a shimmering tenor voice, flawless technique, extraordinary feeling for style, and very clear intonation.” His growing concert repertoire now includes over 35 masterwork compositions.

Charles is the director of vocal studies and artist-in-residence in the Department of Music. He is the recipient of prestigious awards from the Richard Tucker Music Foundation, Loren Zachary National Vocal Competition, Florida Grand Opera Competition, Connecticut Opera Competition, and more.

In addition to his outstanding performance career, Charles Reid is an innovative professor that keeps finding creative ways to grow the vocal area, currently one of the fastest-growing concentrations among music majors. His passion for music, theater and the arts shine in his annual production that takes place at the Howard Performing Art Center.

## 2018 BRUCE E. LEE EXCELLENCE IN SERVICE AWARDS



### **Ryan Hayes (Chemistry)**

Ryan’s selfless service to the church, through his Science, Creation and Faith demonstrations and presentations, have been seen all over the United States... most recently during a week of prayer in a school in Washington State during Spring Break. His son Carter

was his assistant! Ryan sees himself as a “Chemical Missionary.”

He serves his local church in a variety of leadership capacities included Worship Coordinator Leader, deacon, Adult/Youth/ Kindergarten/ Sabbath School leadership, Kindergarten Co-leader and piano player, Children Story Teller, and member of a Church School Board. He developed and led out in a Science Camp with 17 nights of programming and has conducted Weeks of Prayer for church schools. He has been an invited speaker on multiple occasions and a past president of the Intersarsity Graduate Christian Fellowship in Northwestern University. His worship talks are highly cited in his class evaluations.

In scholarly service Ryan is a member of the Faith and Science Council and a reviewer and editor of scholarly journal articles and a textbook reviewer. He is the founder, lead scientist and business developer for the Andrews University Chemical Services company. Ryan serves the Department and the university by bringing positive energy and an upbeat attitude to advising and mentoring students, and to every committee meeting, vespers, workday and every extra thing he does for his students and student researchers. In any event that Ryan participates, it will be better and more fun because he is there, making a positive difference.



**Shannon Trecartin  
(Social Work)**

In the midst of busy teaching and research agendas, Shannon Trecartin remains dedicated to providing service to the university, the Social Work department, the community and the church. On the university level, Shannon serves on the Institutional Review Board

Committee and the CAS Academic Policies and Curriculum Committee. In addition, she recently took on the responsibility of co-facilitating the Haven Support Group for LGBT students on campus. Within the Social Work Department she serves on the Professional Degree Council and is the coordinator of our very active alumni outreach, where she hosts planning meetings, outreach activities for current students, and local social events at area restaurants and coffee shops.

Shannon's involvement in church activities includes leading Pathfinders with her husband at the Fil-Am church, which includes active involvement at the International Pathfinder Camporees in Oshkosh, Wisconsin. She also serves as a member of the General Conference Disabilities Ministries Committee, which does policy development and outreach on disabilities issues. In addition, she consults with Christian Record Services for the Blind, where she works on mental health support issues for summer camp program staff.

Finally, Shannon's service to the community includes being a program planner and/or abstract reviewer for the Adventist Human Subject Researchers Association and the North American Association of Christians in Social Work. She is also an active board member for Riverwood Center, the county's community mental health center.

Congratulations to Shannon for actively living out her conviction that service to the university, department, community and church are an important part of being a faculty member at Andrews University.



**Stephanie Carpenter  
(History & Political Science)**

In her department Stephanie is the Sponsor for Phi Alpha Theta (history honor society) and history club. She has taken students to regional and national history conferences; mentored student papers and research;

prepared student presentation for conferences; assisted with

vesper/worship services for department students; and held the state Phi Alpha Theta Conference here April 2017. She also participates in Phi Alpha Theta at the national level as a new faculty mentor and session chair at the national biennial convention.

Stephanie is a Chair, academic advisor and she also finds time to provide food for students on campus, either through fixing them food in the department or provided groceries for those in need. At the university level, Stephanie has been involved in many activities—she was the conference program chair for the 500th Anniversary of Martin Luther's Ninety-Five Theses Conference, faculty mentor for New Student Orientation, member of the Traffic Appeals Committee, and part of the Blue Ocean in 2017.

At church, Harbor of Hope, Stephanie is the Sabbath School Superintendent, children's Sabbath school teacher, bulletin assistant/secretary, and Food Pantry assistant. Thank you for all the work you do for the University, the students and our community.

## 2018 UNDERGRADUATE RESEARCH MENTOR AWARDS

The following quotes are from tributes given by undergraduate students mentored by the faculty award recipients.



**Shandelle Henson  
(Mathematics)**

*"Dr. Henson has been one of the best mentors I could have ever had! I remember always being motivated when I was making slow progress in research, and was pushed out of my comfort zone to learn more and be independent."*

*"Dr. Henson has taught me a lot about the importance of asking good questions and brainstorming solutions to obstacles, as well as taking ownership of one's work and being proud of yourself at a job well done. After having such intellectually stimulating conversations with them, I have been inspired by their work and gone on to pursue summer research opportunities. Dr. Henson is by far one of the most fantastic and excellent mentors that I have met."*

*"Dr. Henson is one of the best mentors and professors that I have had the privilege to work with. She always encouraged me to work hard and to do my best. I could always find support from her when going through the struggles and victories of my thesis. She did not give up on me nor have I seen her give up on any of her students. Her kindness, wisdom, self-confidence, integrity, and love for God is contagious. It was truly an honor to have met Dr. Henson, and I will always be grateful to have worked with her during my academic journey."*

*"Dr. Henson has continued to inspire me through her tireless*

*dedication to my success, her passion for science and mathematics, and her deep Christian faith. I can always count on her to offer exactly the right balance between challenge and support, to guide me through demanding research problems while ensuring that those experiences result in my growth as a Christian scholar. Indeed, Shandelle is much more than a mentor, she is my role model for the kind of professor and person I strive to become.”*



**Vanessa Corredera (English)**

*“When I was doing my research, Dr. Corredera was generous with her time in helping me cultivate my own academic voice. She encouraged me to expand my boundaries as a scholar and was always willing to lend a sympathetic ear—and a hand!—whenever*

*I came across any obstacles. Her ability to challenge students to think more deeply while also maintaining an attitude of kindness and good cheer sets the standard for the kind of research mentor I hope to be in the future.”*

*“Dr. Corredera is a bright light in the English department. Her personal commitment to both research and her students impacted my outlook on the study of literature. She is my friend and role model. Her example and influence colors everything about my last two years at Andrews. I owe much of my journey to Dr. Vanessa Corredera. Without her, my experience at Andrews would undoubtedly have been less vibrant. As I consider the field of teaching and academia for myself, I recall the kind of influence she had on me and attempt to incorporate that in my own professional life. So I thank Dr. Corredera for investing in me, for changing my life, and for being the kind of woman, teacher, advisor, mentor, and employer that I can only hope to be. She holds a permanent place in my story and in my heart. I would not have it any other way.”*

*“Researching under Dr. Corredera has been a phenomenal experience. A great mentor and friend, she has often been a guiding voice and comforting presence during my time as her student and research advisee. She’s helped me pursue a topic that I’m passionate about, and she frequently reminds me to set my own deadlines and be accountable for myself. Dr. Corredera’s mentorship, teaching, and friendship has been one of the biggest highlights and inspirations of my undergraduate academic experience.”*



**Øystein LaBianca (Behavioral Sciences)**

*“Working with Dr. LaBianca as his undergraduate research assistant was one of the highlights of my academic career at Andrews University. Collaborating with him on his Jordan Cave Survey project helped to heighten my interest in the cultures*

*of the Middle East and in the preservation of knowledge regarding the little traditions of a civilization. My work as an undergraduate research assistant also sharpened my presentation and critical thinking skills. In addition, attending the Jordan Field School was a wonderfully edifying experience. Being able to visit the country that I had been studying added great value to my time doing research with Dr. LaBianca.”*

*“Dr. LaBianca helped me out and provided me so many opportunities relating to research and my internship. Because of his advice, I was able to go to Jordan and do my research with the local community. Doing the research and living in Jordan made me become more of an open-minded person and help me to understand diversity better.”*

# > RESEARCH & CREATIVE ACTIVITY

PEER-REVIEWED PUBLICATIONS

GENERAL AUDIENCE PUBLICATIONS

PRESENTATIONS

PERFORMANCES, EXHIBITIONS,  
RECORDINGS AND FILM PRODUCTION

FACULTY RESEARCH GRANTS

EXTERNAL GRANTS

UNDERGRADUATE RESEARCH SCHOLARS

GRADUATE RESEARCH GRANTS

The following are the 2017 peer-reviewed publications and presentations of Andrews University faculty members and students. Undergraduate Students are italicized, graduate students are bold/italicized, and faculty are bolded within their department. Publications and presentations are duplicated in each faculty co-author's department.

## 2017 PEER-REVIEW PUBLICATIONS

### Behavioral Sciences

**Harvey J. Burnett.** Revisiting the compassion fatigue, burnout, compassion satisfaction and resilience connection among CISM responders. *Journal of Police Emergency Response* 7(3), 1-10, 2017.

*Christiana D. Atkins* and **Harvey J. Burnett.** Moral reasoning and ending of life revisited: Influences of resilience and religiosity. *Michigan Academician* 44(3), 239-255, 2017.

**Oystein S. LaBianca.** Community archaeology at Tall Hisban. *Andrews University Seminary Studies* 55(1), 5-27, 2017.

René Drumm, Laurie Cooper, Marge Seifert, **Duane McBride**, and David Sedlacek. "Love everybody, keep your mouth shut, don't have an opinion": Role expectations among Seventh-day Adventist pastor spouses. *Social Work & Christianity* 44(3), 94-114, 2017.

**Joel Raveloharimisy.** Belief and practice: Spiritual imperatives for the Adventist teacher. *Journal of Adventist Education* 79(4), 4-7, 2107.

### Biology

**Gordon J. Atkins** and **James L. Hayward.** Predation by common ravens (*Corvus corax*) on eggs of rhinoceros auklets (*Cerorhinca monocerata*) and kleptoparasitism by bald eagles (*Haliaeetus leucocephalus*). *Wilson Journal of Ornithology* 129(2), 387-389, 2017.

**Gordon J. Atkins**, *Ashley A. Reichert*, Shandelle M. Henson, and **James L. Hayward.** Copulation call coordinates timing of head-tossing and mounting behaviors in neighboring glaucous-winged gulls (*Larus Glaucescens*). *Wilson Journal of Ornithology* 129(3), 560-567, 2017.

**H. Thomas Goodwin** and Robert A. Martin. Ground squirrels (*Rodentia, Sciuridae*) of the late Cenozoic Meade Basin sequence: Diversity and paleoecological implications. *Journal of Paleontology* 91(6), 1244-1257, 2017.

**James L. Hayward**, Shandelle M. Henson, Jennifer Bové, Chris Bové, and *Cory J. Gregory*. Daily and annual habitat use and habitat-to-habitat movement by Glaucous-winged Gulls at Protection Island, Washington. *Northwestern Naturalist*, Winter 2017, 180-189.

*Rashida S. Smith*, Lynelle M. Weldon, **James L. Hayward**, and Shandelle M. Henson. Time lags associated with effects of oceanic conditions on seabird breeding in the Salish Sea region of the Northern California Current System. *Marine Ornithology* 45, 39-42, 2017.

Carole Wolford-Hunt, **Marlene Murray**, Tevni Guerra, and Kristina Beenken-Johnson. Analysis of endocrine response to perceived difference in cross-cultural interactions. *Journal of Global Engagement and Transformation* 1(2), no page, 2017.

### Chemistry & Biochemistry

**Desmond H. Murray.** Early research: Becoming by doing. *The STEMEDGE* 1(1), 16-17, 2017.

### Engineering

Eun-Hwa Kim, Nicola Bertelli, **Jay R. Johnson**, Ernest Valeo, and Joel Hosea. 2D full-wave simulations of waves in space and tokamak plasmas. *European Physical Journal Web of Conferences* 157, 02005, 2017.

Ji Liang, Yu Lin, **Jay R. Johnson**, Zheng-Xiong Wang, and Xueyi Wang. Ion acceleration and heating by kinetic Alfvén waves associated with magnetic reconnection. *Physics of Plasmas* 24, 102110, 2017.

Yu Lin, Simon Wing, **Jay R. Johnson**, X. Y. Wang, J. D. Perez, and L. Cheng. Formation and transport of entropy structures in the magnetotail simulated with a 3-D global hybrid code. *Geophysical Research Letters* 44(12), 5892-5899, 2017.

Peter Porazik and **Jay R. Johnson.** Conductivity tensor for anisotropic plasma in gyrokinetic theory. *Physics of Plasmas* 24(5), 052121, 2017.

Simon Wing, **Jay R. Johnson**, and Enrico Camporeale. Dawn-dusk asymmetries in the auroral particle precipitation and their modulations by substorms. Pp. 255-272, in Stein Haaland, Andrei Runov, and Colin Forsyth (eds.), *Dawn-Dusk Asymmetries in Planetary Plasma Environments*. John Wiley & Sons: Hoboken, NJ, 2017.

**Hyun Kwon.** The design focused engineering outreach to a middle school using Arduino Projects. *Proceedings of the ASME 2017 International Design Engineering Technical Conference and Computers and Information in Engineering Conference*. Volume 8, 2017.

### English

**Vanessa Corredera.** "Far more black than black: Stereotypes, black masculinity, and Americanization in Tim Blake Nelson's *O.*" *Literature/Film Quarterly* 45(3), no page, 2017.

**Vanessa I. Corredera.** Review of Farah Karim-Cooper, *The Hand on the Shakespearean stage: Gesture, Touch and the Spectacle of Dismemberment*. *Comparative Drama* 50(4), 410-413, 2017.

**Eun-Young Julia Kim.** Academic writing in Korea: Its dynamic landscape and implications for intercultural rhetoric. *Teaching English as a Second or Foreign Language Electronic Journal* 21(3), no page, 2017.

**Eun-Young Julia Kim.** A comparative discourse analysis of the Seventh-day Adventist Theological Seminary's statement "On the Unique Headship of Christ in the Church" and the response statement, "An Open Appeal." *Andrews University Seminary Studies* 55(1), 45-82, 2017.

**Eun-Young Julia Kim.** TOEFL iBT writing: Korean students' perceptions of TOEFL iBT writing test. *Assessing Writing*, July 2017, 1-11.

**L. Monique Pittman.** Colour-conscious casting and multicultural Britain in the BBC *Henry V* (2012): Historicizing adaptation in an age of digital placelessness. *Adaptation* 10(2), 176-191, 2017.

**Christian Stuart.** ESL writers in the mainstream classroom: Cultivating a culture of success. *Journal of Adventist Education* 79(4), 20-23, 2017.

### James White Library

**Lauren R. Matacio** and Bruce Closser. Transforming information literacy through librarian/course instructor collaboration: A case study. *Journal of Adventist Libraries and Archives* 2(1), 2017.

**Silas M. Oliveira.** Retention matters: Libraries leading the way. *New Review of Academic Librarianship* 23(3), 35-47, 2018.

### Mathematics

- Gordon J. Atkins, *Ashley A. Reichert*, **Shandelle M. Henson**, and James L. Hayward. Copulation call coordinates timing of head-tossing and mounting behaviors in neighboring glaucous-winged gulls (*Larus Glaucescens*). *Wilson Journal of Ornithology* 129(3), 560-567, 2017.
- James L. Hayward, **Shandelle M. Henson**, Jennifer Bové, Chris Bové, and *Cory J. Gregory*. Daily and annual habitat use and habitat-to-habitat movement by Glaucous-winged Gulls at Protection Island, Washington. *Northwestern Naturalist*, Winter 2017, 180-189.
- Jooh Hyuk Kang.** Estimates of life span of solutions of a Cauchy problem. *International Journal of Pure and Applied Mathematics* 116(3), 637-641, 2017.
- Timothy Robertson* and **Jooh Hyuk Kang.** Region of smooth functions for positive solutions to an elliptic biological model. *International Journal of Pure and Applied Mathematics* 116(3), 629-636, 2017.
- Julie Logan* and **Yun Myung Oh.** Characterization of rectifying and sphere curves in  $R^3$ . *American Journal of Undergraduate Research* 14(2), 91-94, 2017.
- Bang-Yen Chen and **Yun Myung Oh.** Classification of rectifying space-like submanifolds in pseudo-Euclidean spaces. *International Electronic Journal of Geometry* 10(1), 86-95, 2017.
- Rashida S. Smith*, **Lynelle M. Weldon**, James L. Hayward, and **Shandelle M. Henson.** Time lags associated with effects of oceanic conditions on seabird breeding in the Salish Sea region of the Northern California Current System. *Marine Ornithology* 45, 39-42, 2017.

### Music

**Adriana Perera.** *More than Music: Worship*. CreateSpace: Laverne, TN, 2017.

### Physics

- Uygun V. Valiev, Denis N. Karimov, **Gary W. Burdick**, Rakhim Rakhimov, Vasily O. Pelenovich, and Dejun Fu. Growth and magneto-optical properties of anisotropic  $TbF_3$  single crystals. *Journal of Applied Physics* 121, 2431005, 2017.
- Mickey Kutzner** and *Bryan Pearson.* A student diffusion activity. *Physics Teacher* 55, 109-111, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). GW170608: Observation of a 19 solar-mass binary black hole coalescence. *Astrophysical Journal of Letters* 851, L35, arXiv/1711.05578, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). Search for post-merger gravitational waves from the remnant of the binary neutron star merger GW170817. *Astrophysical Journal of Letters* 851, L16, arXiv/1710.09320, 2017.
- Tiffany Z. Summerscales** with A. Albert et. al. (LIGO Scientific and VIRGO Collaborations). Search for high-energy neutrinos from binary neutron star merger GW170817 with ANTERES, IceCube, and the Pierre Auger Observatory. *Astrophysical Journal of Letters* 850, L35, arXiv/1710.05839, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). On the progenitor of binary neutron star merger GW170817. *Astrophysical Journal of Letters* 850, L40, arXiv/1710.05838, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). Estimating the contribution of dynamical ejecta in the kilonova associated with GW170817. *Astrophysical Journal of Letters* 850, L39, arXiv/1710.05836, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). A gravitational-wave standard siren measurement of the Hubble constant. *Nature* 551, 85, arXiv/1710.05835, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). Multi-messenger observations of a binary neutron star merger. *Astrophysical Journal of Letters* 848, L12, arXiv/1710.05833, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). Gravitational waves and gamma-rays from a binary neutron star merger: GW170817 and GRB 170817A. *Astrophysical Journal of Letters* 848, L13, arXiv/1710.05834, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). GW170817: Observation of gravitational waves from a binary neutron star inspiral. *Physical Review Letters* 119, 161101, arXiv/1710.05832, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. *Physical Review D* 96, 122006, arXiv/1710.02327, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). GW170814: A three-detector observation of gravitational waves from a binary black hole coalescence. *Physical Review Letters* 119, 141101, arXiv/1709.09660, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. *Physical Review D* 96, 122004, arXiv/1707.02669, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). All-sky search for periodic gravitational waves in the O1 LIGO data. *Physical Review D* 96, 062002, arXiv/1707.02667, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). Upper limits on gravitational waves from Scorpius X-1 from a model-based cross-correlation search in Advanced LIGO data. *Astrophysical Journal* 847, 47, arXiv/1706.03119, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). GW170104: Observation of a 50-solar mass binary black hole coalescence at redshift 0.2. *Astrophysical Journal of Letters* 118, 221101, arXiv/1706.01812, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. *Physical Review D* 96, 022001, arXiv/1704.04628, 2017.

- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model. *Physical Review D* 95, 122003, arXiv/1704.03719, 2017.
- Tiffany Z. Summerscales** with A. Albert et. al. (LIGO Scientific and VIRGO Collaborations). Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube.” *Physical Review D* 96, 022005, arXiv/1703.06298, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). First search for gravitational waves from known pulsars with Advanced LIGO.” *Astrophysical Journal* 839, 12, arXiv/1701.07709, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). Directional limits on persistent gravitational waves from Advanced LIGO’s first observing run. *Astrophysical Journal of Letters* 118, 121102, arXiv/1612.02030, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). Upper limits on the stochastic gravitational-wave background from Advanced LIGO’s first observing run. *Physical Review Letters* 118, 121101, arXiv/1612.02029, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). Search for gravitational waves associated with gamma-ray bursts during the first Advanced LIGO observing run and implications for the origin of GRB 150906B. *Astrophysical Journal* 841, 89, arXiv/1611.07947, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). Effects of waveform model systematics on the interpretation of GW150914. *Classical and Quantum Gravity* 34, 104002, arXiv/1611.07531, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. *Physical Review D* 95, 042003, arXiv/1611.02972, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). Exploring the sensitivity of next generation gravitational wave detectors. *Classical and Quantum Gravity* 34, 044001, arXiv/1607.08697, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544. *Physical Review D* 95, 082005, arXiv/1607.02216, 2017.
- Tiffany Z. Summerscales** with B. P. Abbott et. al. (LIGO Scientific and VIRGO Collaborations). Calibration of the Advanced LIGO Detectors for the discovery of the binary black-hole merger GW150914. *Physical Review D* 95, 062003, arXiv/1602.03845, 2017.
- Religion & Biblical Languages**
- Glenn Russell.** Fame, shame and social media: Missional insights for youth ministry. *Journal of Youth Ministry* 16(1), 30-55, 2017.
- Davide Sciarabba.** Juan Calvino: Vida, obra y teología. Pp.

61-70, in Michael W. Campbell, Cristian S. Gonzalez, and Abner F. Hernandez (eds.), *La Reforma Protestante: Estudios Históricos y Teológicos*. Universidad Peruana Union: Lima, Peru. 2017.

**Davide Sciarabba.** The issue of divorce and remarriage in 1 Corinthians 7:15 in the light of the *Dominical Logion* of 7:10. Pp. 129-148, in Slaviša Janković (ed.), *Searching the Scriptures: Andrews University Seminary Emerging Scholars Pay Tribute to Their Professors*. Department of Old Testament, Seventh-day Adventist Theological Seminary: Berrien Springs, MI, 2017.

**Davide Sciarabba.** Tribute to Ranko Stefanovic. Pp. vii, in Slaviša Janković (ed.), *Searching the Scriptures: Andrews University Seminary Emerging Scholars Pay Tribute to Their Professors*. Department of Old Testament, Seventh-day Adventist Theological Seminary: Berrien Springs, MI, 2017.

### Visual Art, Communication & Design

**Stefanie P. Elkins.** A model shrine from Tall Al-'Umayri. Pp. 433-445, in D. Clark L. Herr and Lawrence Geraty (eds.), *Madaba Plains Project: The 2000 Season at Tall Al-'Umayri and Subsequent Studies*, Vol. 7. Eisenbrauns: Winona Lake, IN, 2017.

## 2017 GENERAL PUBLICATIONS

### Agriculture

**Garth B. Woodruff.** Fight for the puddles. *SpinSheet: Chesapeake Bay Sailing* 23(11), 32, 2017.

**Garth B. Woodruff.** Solastalgia: When familiar spaces sift and change. *SpinSheet: Chesapeake Bay Sailing* 23(8), 35, 2017.

**Garth B. Woodruff.** Early bloomers. *SpinSheet: Chesapeake Bay Sailing* 23(5), 42-43, 2017.

**Garth B. Woodruff.** Bay winters. *SpinSheet: Chesapeake Bay Sailing* 23(2), 25, 2017.

### Behavioral Sciences

**Øystein S. LaBianca** and **Jeffrey P. Hudon.** The Heshbon excavation (five decades later). *Adventist Review*, October 4, 2017.

### James White Library

**Kathleen M. Demsky.** *2017 Waldensian Tour Guide*. School of Architecture, Andrews University: Berrien Springs, MI, 2017.

**Kathleen M. Demsky.** *Environmental Design Research Association Annual Bibliographic Publication: EDRA 48*. Architecture Resource Center, Andrews University: Berrien Springs, MI, 2017.

**Kathleen M. Demsky.** Faith in the wilderness. *Lake Union Herald*, October 2017, 4-5.

**Kathleen M Demsky.** *The Waldenses: Historical Perspectives from the Writings of Ellen G. White*. Architecture Resource Center, Andrews University: Berrien Springs, MI, 2017.

**Marianne Kordas.** Program notes. *The Howard Center Presents Trynchuk & Yun*. Howard Performing Arts Center, Andrews University, Berrien Springs, MI. September 17, 2017.

**Marianne Kordas.** Program notes. *Mein Herz ist Bereit: A Christmas Concert*. Camerata Milwaukee. Shorewood, WI. December 16, 2017.

**Marianne Kordas.** Program notes. *Mostly English*. Camerata Milwaukee. Shorewood, WI. May 20, 2017.

**Marianne Kordas.** Program notes. *Spring Concert*. Camerata Milwaukee. Shorewood, WI. March 12, 2017.

**Xiaoming Xu.** Cultural Events Committee hosts events at James White Library. *ASDAL Action* 36(3), 10-11, 2017.

**Xiaoming Xu.** Wellness at Andrews University. *ASDAL Action* 37(1), 32-33, 2017.

### Social Work

**Alina Baltazar** and **Shannon M. Trecartin.** Depression, aging, and the faith family: Our church can make a difference. *Adventist Review*, January 3, 2017.

**Ingrid Slikkers.** Dejad a los ninos venir a mi. *Lake Union Herald*, March 2017, 11.

**Ingrid Slikkers.** Talking to our children about refugees. *Lake Union Herald*, February 2017, 6.

**Ingrid Slikkers.** Teaching children to make time with God. *Lake Union Herald*, August 2017, 6.

**Curtis VanderWaal,** David Sedlacek, Nancy Carbonell, and **Shannon M. Trecartin.** LGBT youth despair in hostile church environment (author interview). *Spectrum*, March 15, 2017.

**Curtis VanderWaal,** David Sedlacek, Nancy Carbonell, and **Shannon M. Trecartin.** The ties that bind? Exploring the impact of SDA family response to LGBT+ children. *Spectrum* 45(1), 37-41, 2017.

### Visual Art, Communication & Design

**Heather Thompson Day.** Are you empty? *Christian Woman Magazine*, <http://christianwomanmag.com/are-you-empty/>.

**Heather Thompson Day.** You don't have to accept their sorry. *Christian Woman Magazine*, <https://christianwomanmag.com/you-dont-have-to-accept-the-sorry/>.

**Heather Thompson Day.** Why Christians are not stupid. *Christian Woman Magazine*, <https://christianwomanmag.com/why-christians-are-not-stupid/>.

**Heather Thompson Day.** Is God sexist? *Christian Woman Magazine*, <https://christianwomanmag.com/is-god-sexist/>.

**Heather Thompson Day.** 7 things a mom does before she goes to work. *Christian Woman Magazine*, <https://christianwomanmag.com/7-things-a-mom-does-before-she-even-gets-to-work/>.

**Heather Thompson Day.** What I wanted in a man. *Christian Woman Magazine*, <https://christianwomanmag.com/what-i-wanted-in-a-man/>.

**Heather Thompson Day.** Has the church lost millennials? *Christian Woman Magazine*, <https://christianwomanmag.com/has-the-church-lost-the-millennials/>.

**Heather Thompson Day.** Nobody cares unless you are pretty. *Christian Woman Magazine*, <https://christianwomanmag.com/because-nobody-cares-unless-you-are-pretty/>.

**Heather Thompson Day.** Women of the glass. *Christian Woman Magazine*, <https://christianwomanmag.com/the-women-of-the-glass/>.

**Heather Thompson Day.** Because sometimes people leave. *Christian Woman Magazine*, <https://christianwomanmag.com/because-sometimes-people-leave/>.

**Heather Thompson Day.** Social media is making us bad humans. *Faithfully Magazine*, May 12, 2017, <https://faithfullymagazine.com/social-media-making-us-bad-humans/>.

**Heather Thompson Day.** What my white mother taught me about being brown. *Faithfully Magazine*, May 26, 2017, <https://faithfullymagazine.com/white-mother-taught-being-brown/>.

**Heather Thompson Day.** Dear millennials, Sex won't make you fall in love. *Faithfully Magazine*, June 2, 2017, <https://faithfullymagazine.com/millennials-sex-wont-make-love/>.

**Heather Thompson Day.** Millennials are church-ed out. *Faithfully Magazine*, August 23, 2017, <https://faithfullymagazine.com/millennials-church-ed-out/>.

**Heather Thompson Day.** Jesus existed—But how do we know He was who He claimed to be? *Faithfully Magazine*, October 24, 2017, <https://faithfullymagazine.com/islam-judaism-cool-christians-idiots/>.

**Heather Thompson Day.** Millennials don't want kids—I don't blame them. *Faithfully Magazine*, December 19, 2017, <https://faithfullymagazine.com/millennials-dont-want-kids-dont-blame/>.

## 2017 PRESENTATIONS

### Agriculture

**Garth B. Woodruff.** "Place making: Designing for place through customer engagement." Association of Professional Landscape Designers Annual International Conference. Boston, MA. July 14, 2017.

**Garth B. Woodruff.** "Understanding community health barriers: Food deserts in agro-centric communities and sustainable delivery mechanisms breaking the barriers of accessibilities." Adventist Human-Subject Researchers Association Annual Conference. Loma Linda University, Loma Linda, CA. May 17-20, 2017.

Gretchen Krivak, **Garth B. Woodruff**, S. Forrest, *Hannah Mbungu*, *Kechler Orcel*, *Soraya Fish*, and Sherine Brown-Fraser "A mixed method multiple case study of three business models for local healthy food delivery systems in underprivileged urban areas." Food & Nutrition Conference & Expo. Chicago, IL. October 21-24, 2017.

### Behavioral Sciences

**Karl G. D. Bailey.** "Course sharing: Cognitive psychology lab." National Institute on the Teaching of Psychology. St. Petersburg Beach, FL. January 3-6, 2017.

**Karl G. D. Bailey** and **Duane C. McBride.** "Religious motivation varies by engagement and generational cohort." Adventist Human-Subject Researchers Association Annual Conference. Loma Linda University, Loma Linda, CA. May 17-20, 2017.

*Courtney-Lynn Harvey* and **Karl G. D. Bailey.** "Time allocation and procrastination among university faculty." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

*Courtney-Lynn Harvey* and **Karl G. D. Bailey.** "Time allocation and procrastination among university faculty." Psi Chi Session, Midwestern Psychological Association Annual Meeting. Chicago, IL. April 20-22, 2017.

*Courtney-Lynn Harvey* and **Karl G. D. Bailey.** "The twenty-first century professor: An evaluation of time allocation among university faculty." Southwest Michigan Psychology Undergraduate Research Conference. Western Michigan University, Kalamazoo, MI. March 31, 2017.

Cooper Hodges, **Karl G. D. Bailey**, and **Duane C. McBride.** "Paths to well-being through religious internalization: A QCA analysis." Psychology of Religion & Spirituality



- Preconference, Society for Personality and Social Psychology. San Antonio, TX. January 19-21, 2017.
- Jessica A. Stelfox* and **Karl G. D. Bailey**. "Implicit bias and neighborhood segregation." Southwest Michigan Psychology Undergraduate Research Conference. Western Michigan University, Kalamazoo, MI. March 31, 2017.
- Jessica A. Stelfox* and **Karl G. D. Bailey**. "Implicit bias and neighborhood segregation." Psi Chi Session, Midwestern Psychological Association Annual Meeting. Chicago, IL. April 20-22, 2017.
- Diana B. Montalvo*, *Shaly M. Torres*, and **Karl G. D. Bailey**. "Effects of simulated impairment on working memory, motivations, and intentions." Southwest Michigan Psychology Undergraduate Research Conference. Western Michigan University, Kalamazoo, MI. March 31, 2017.
- Diana B. Montalvo*, *Shaly M. Torres*, **Karl G. D. Bailey**, and **Harvey J. Burnett**. "Effects of simulated impairment on working memory, motivations, and intentions." Psi Chi Session, Midwestern Psychological Association Annual Meeting. Chicago, IL. April 20-22, 2017.
- Shaly M. Torres*, *Diana B. Montalvo*, **Karl G. D. Bailey**, and **Harvey J. Burnett**. "Effects of simulated impairment on working memory, motivations, and intentions." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Maria E. Wixwat*, **Karl G. D. Bailey**, and **Duane C. McBride**. "Whom do Adventists fear? A comparison of perceived threat from Catholics and Muslims." Southwest Michigan Psychology Undergraduate Research Conference. Western Michigan University, Kalamazoo, MI. March 31, 2017.
- Harvey J. Burnett**. "Exploring the efficacy of psychological first aid: What does recent research tell us?" ICISF World Congress on Stress, Trauma & Coping. Baltimore, MD. May 2017.
- Harvey J. Burnett**. "Exploring the efficacy of psychological first aid: What does recent research tell us?" MCRA Annual Training Conference. Tustin, MI. September 2017.
- Harvey J. Burnett**. "Paramedics stabbed in Detroit: The rising threat presented to first responders." Great Lakes Homeland Security Training Conference & Expo. Grand Rapids, MI. May 2017.
- Philadelphia Cadette* and **Harvey J. Burnett**. "The power of the pen: Examining patterns in expressive writing that predict resilience." Midwestern Psychological Association Annual Meeting. Chicago, IL. April 20-22, 2017.
- Talisa Gonzalez*, *Leiali'i Edwards*, **Harvey Burnett**, and **Herbert W. Helm, Jr.** "An examination of resilience, compassion fatigue, burnout, and compassion satisfaction between men and women among trauma responders." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Heather M. Moore* and **Harvey J. Burnett**. "The anxiety strikes back: A study on anxiety associated with word differences in expressive writing amongst men and women." Midwestern Psychological Association Annual Meeting. Chicago, IL. April 20-22, 2017.
- Heather Moore* and **Harvey J. Burnett**. "The anxiety strikes back: A study on anxiety associated with word differences in expressive writing amongst men and women." Southwest Michigan Psychology Undergraduate Research Conference. Western Michigan University, Kalamazoo, MI. March 31, 2017.
- Heather M. Moore*, *Philadelphia Cadette*, **Harvey J. Burnett**, and **Karl G. D. Bailey**. "Examining the efficacy of psychology First Aid on anxiety, mood, physiological response, and resilience." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Brandon Shin* and **Harvey J. Burnett**. "The compassion fatigue and resilience connection revisited among disaster behavioral health responders." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Herbert W. Helm, Jr.** "Social psychology and classroom activities and/or labs." Roundtable, National Institute on the Teaching of Psychology Annual Conference. St. Pete Beach, FL. January 3-6, 2017.
- Abigail Hall* (with **Herbert W. Helm, Jr.**). "Generational gender differences in mate selection." Psi Chi Session, Midwestern Psychological Association Annual Meeting. Chicago, IL. April 20-22, 2017.
- Øystein S. LaBianca**. "Archaeologists engaging the Anthropocene." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Øystein S. LaBianca**. "Archaeologists engaging the Anthropocene." American Anthropological Association Annual Meetings. Washington, D.C. November 29-December 3, 2017.
- Øystein S. LaBianca**. "Contextualizing the quest for Theories of La Longue Duree at Tall Hisban." MPP@50 Session, American Schools of Oriental Research Annual Meeting. Boston, MA. November 15-18, 2017.
- Øystein S. LaBianca**. "The good, the bad and the ugly: An anthropologist's reflections on Genesis 1, our groaning creation, migrants and missionaries." Midwest Mission Studies Fellowship Meeting. Andrews University, Berrien Springs, MI. November 11, 2017.
- Øystein S. LaBianca**. "Narrating contested pasts: Lessons learned at Tall Hisban, Jordan." W.F. Albright Institute of Archaeological Research, Jerusalem, Israel. July 13, 2017.
- Øystein S. LaBianca**, Bob Bates, Stefanie Elkins, and Noel Harris. "Interdisciplinary aspects of archaeological research." Phi Kappa Phi Chapter, Andrews University, Berrien Springs, MI. April 5, 2017.
- Duane C. McBride**. "The provision of healthcare amidst macro secular trends within the unfolding Hegelian Dialectic." Plenary, SDA Business Teachers Conference. Andrews University, Berrien Springs, MI. July 11-13, 2017.
- Duane C. McBride**, Petr Cincala, René Drumm, and **Karl Bailey**. "Audience impact of Adventist World Radio in India and Russia." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Duane C. McBride**, Gary Hopkins, Alina Baltazar, and Curtis VanderWaal. "Spirituality and health risk behaviors among Adventist students." Adventist Human-Subject Researchers Association Annual Meeting. Loma Linda University, Loma Linda, CA. May 17-20, 2017.

- Alina M. Baltazar, René D. Drumm, Petr Cincala, Desrene Vernon-Brebnor, **Duane C. McBride**, Curtis VanderWaal, and Krista Cooper. "Family life education through the radio." Adventist Conference on Family Research & Practice. Andrews University, Berrien Springs, MI. July 20-22, 2017.
- Petr Činčala, **Duane McBride**, and René Drumm. "Bigger Better? How Church Size Is Related to Church Health (& Growth)." Society for the Scientific Study of Religion/Religious Research Association Annual Meeting (SSSR/RRA). Washington, D.C. October 12-15, 2017.
- Clyde McCoy, A. J. McCoy Bengoa, B. Hayden, H. V. McCoy, **Duane C. McBride**, S. Puri, and P. Shapshak. "Emerging viral pathways among drug-using populations: Future directions of scientific studies." National Institute on Drug Abuse International Forum. Montreal, Canada. June 16-19, 2017.
- René Drumm and **Duane C. McBride**. "An erosion of confidence': Obstacles to religious philanthropic giving in the US." STEM/STEAM and Education Conference. Honolulu, Hawaii. June 9, 2017.
- René Drumm, Alina Baltazar, Petr Cincala, **Duane C. McBride**, Desrene Vernon-Brebnor, Curtis VanderWaal, and Krista Cooper. "Adventist World Radio: Audience recommendations and reported benefits." Adventist Human-Subject Researchers Association Annual Conference. Loma Linda University, Loma Linda, CA. May 17-20, 2017.
- Maria E. Wixwat*, **Duane C. McBride**, and **Karl G. D. Bailey**. "Whom do Adventists fear? A comparison of perceived threat from Catholics and Muslims." Psi Chi Session, Midwestern Psychological Association Annual Meeting. Chicago, IL. April 20-22, 2017.
- Joel Raveloharimisy**. "Managing Social Capital." Midwest Political Science Association. Chicago, IL. April 6-9, 2017..
- Jahera Alamri** and **Joel Raveloharimisy**. "Delivering humanitarian assistance in conflict zones. Case study: Syria crisis." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Khadeen K. Grant** and **Joel Raveloharimisy**. "NGOs to the rescue: Broken aid." Midwest Political Science Association. Chicago, IL. April 6-9, 2017.
- Khadeen K. Grant** and **Joel Raveloharimisy**. "NGOs to the rescue." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017
- Tachica McCoy** and **Joel Raveloharimisy**. "Youth in crisis: An insight into the prevalence of juvenile crime during times of protracted crises." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Jessica Sarabia** and **Joel Raveloharimisy**. "Who's doing it right? Lessons from Jordan, Germany and the United States." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Biology**
- Clemence Uwimana*, **Gordon J. Atkins**, **James L. Hayward**, and Shandelle M. Henson. "Nighttime colony occupancy patterns by Glaucous-winged Gulls." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Roshelle Hall**, **Daniel Gonzalez-Socoloske**, and **Peter Lyons**. "Genetic diversity of the Eastern massasauga (*Sistrurus catenatus*) in Berrien and Van Buren Counties, southwest Michigan." Biology of Snakes Symposium. Rodeo, New Mexico. July 26-29, 2017.
- Purin Chirachevin* and **Daniel Gonzalez-Socoloske**. "The relationship between cold stress syndrome mortality and body shape in Florida manatees." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Mindy McLarty**, **Daniel Gonzalez-Socoloske**, Roamsy Volta, Jorge Angulo-Valdes, and Anmari Alvarez-Aleman. "Seeing the unseen: Testing the effectiveness of side-scan sonar to characterize benthic habitat." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Zenalda M. Navarro-Martinez, Lisandra Garcia-Cordova, Jose M. Febles-Diaz, Jorge Angulo-Valdes, **Mindy J. McLarty**, and **Daniel Gonzalez-Socoloske**. "Juvenile tarpon and bonefish habitat characterization in Isle of Youth, Cuba." Bonefish and Tarpon Trust 6<sup>th</sup> International Science Symposium. Weston, Florida. November 10-11, 2017.
- Erika Bauza Nowotny*, **Daniel Gonzalez-Socoloske**, and **Peter J. Lyons**. "Identification of the Eastern massasauga rattlesnake (*Sistrurus catenatus*) through genetic analysis of shed skin." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Ezra Panjaitan* and **Daniel Gonzalez-Socoloske**. "Intra- and interspecific mesowear and tooth number in manatees." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- C. Brenden Croughan*, *D'Shauna Edwards*, and **H. Thomas Goodwin**. "Is hibernation recorded in incisors of the Franklin's ground squirrel and rock squirrel?" Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- James L. Hayward** and Shandelle M. Henson. "El Niño, 'The Blob', and egg cannibalism in Glaucous-winged Gulls." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- James L. Hayward** and Shandelle M. Henson. "El Niño, the Blob, and egg cannibalism in Glaucous-winged Gulls." Pacific Seabird Group Annual Meeting. Tacoma, WA. February 22-26, 2017.
- Shandelle M. Henson, **James L. Hayward**, and J. M. Cushing. "Rising sea surface temperatures and tipping points for seabird colonies." Biology and Medicine through Mathematics Conference (BAMM!). Richmond, VA. May 18-20, 2017.
- Isabelle C. Hwang*, *Robert M. Polski*, **James L. Hayward**, and Shandelle M. Henson. "Effects of eggshell coloration on egg cannibalism." Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Athena T. Smith**, *Isabelle Hwang*, **James L. Hayward**, and Shandelle M. Henson. "Glaucous-winged Gull predation

on chicken eggs treated with a UV blocking agent.”

Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

*Rashida S. Smith*, Lynelle M. Weldon, **James L. Hayward**, and Shandelle M. Henson. “When should one measure sea surface temperature to predict its time-lagged effects on seabird breeding.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

*Linnea C. Burke* and **Peter J. Lyons**. (2017) “Activity of carboxypeptidase O in the secretory pathway of MDCK cells.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

*Temitope Idowu*, **Matthew Schott**, and **Peter J. Lyons**. “Characterization of ECM14, a fungal pseudopeptidase.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

**Marlene Murray** and *Hyukje Sung*. “Omega-3-fatty acids: Potential anti-bipolar agents.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

**Benjamin Navia**. “Evolution and faith.” Congreso de Fe y Ciencia. Universidad de Montemorelos, Nuevo León, Mexico. July 20-30, 2017.

**Benjamin Navia** and *Chelsea Kent*. “Behavioral and neuronal responses in male-exposed female cricket *Acheta domesticus*.” Society for Neuroscience Annual Meeting. Washington, D.C. November 14, 2017.

*Chelsea Kent* and **Benjamin Navia**. “Does exposure to males change the phonotactic response of female crickets towards model calls?” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

*Darley Magno* and **Benjamin Navia**. “The role of octopamine in syllable-period selective phonotaxis in female cricket *Acheta domesticus*.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

**Jemma McLeish**, **Denise L. Smith**, and **Desmond H. Murray**. “Screening of Arylidene Heterocycles as potential anticancer agents.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

**Jemma McLeish** (with **Denise L. Smith** and **Desmond H. Murray**). “Screening of Arylidene Heterocycles as potential anticancer agents.” Andrews Research Conference. Andrews University, Berrien Springs, MI. May 17-21, 2017.

**Robert Zdor**. “Elevated soil sand content enhances the suppressive effect of mustard seed meal on velvetleaf growth.” American Society for Plant Biology Annual Conference. Honolulu, HI. June 25, 2017.

### Chemistry & Biochemistry

**Lisa Ahlberg**. “Organic chemistry course competencies for improved course outcomes.” Midwest SoTL Conference. Indiana University, South Bend, IN. April 7, 2017.

**Lisa Ahlberg**. “Organic chemistry course competencies for improved course outcomes.” Teaching and Learning Conference. Andrews University, Berrien Springs, MI. March 30, 2017.

**Ryan T. Hayes**. “Signature of the Designer: Seeing God

through the creation.” 2017 ASI International Convention. Houston, TX. August 2-5, 2017.

*Lauren Bitterman* and **Ryan T. Hayes**. “Copper(II) ion sequestration by PAMAM-octyl dendrimers.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

*Hyelin Hou* and **Ryan T. Hayes**. “Stabilization of aqueous ascorbic acid solutions using PAMAM dendrimers.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

**Jemma McLeish**, **Denise L. Smith**, and **Desmond H. Murray**. “Screening of Arylidene Heterocycles as potential anticancer agents.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

**Jemma McLeish** (with **Denise L. Smith** and **Desmond H. Murray**). “Screening of Arylidene Heterocycles as potential anticancer agents.” Andrews Research Conference. Andrews University, Berrien Springs, MI. May 17-21, 2017.

### Computer Science

**Rodney Summerscales**. “Surveying the virtual landscape.” Andrews Research Conference. Andrews University, Berrien Springs, MI. May 17-21, 2017.

### Engineering

**Wayne Buckhanan**. “Beyond fun and gamification: Applying motivational lessons from games.” Adventist Online Learning Conference. Andrews University, Berrien Springs, MI. October 12, 2017.

**Hyun Kwon**. “A design focused engineering outreach to middle school using Arduino Projects.” ASME 2017 International Design Engineering Technical Conference and Computers and Information in Engineering Conference. Cleveland, OH. August 6-9, 2017.

**Hyun Kwon** and *Daniel Marsh*. “Signal enhancement of electro-chemi-luminescent sensor with mobile phones.” ASME 2017 International Design Engineering Technical Conference and Computers and Information in Engineering Conference. Cleveland, OH. August 6-9, 2017.

*Daniel Marsh*, *Ester Carrasco*, *Jisu Choi*, and **Hyun Kwon**. “Development and configuration of mobile-phone based ECL biosensor using [Ru(bpy)<sub>3</sub>]<sup>2+</sup> and DBAE.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

**Boon-Chai Ng**, *Will Allen*, and *Dominique Tan-Ng*. “Evaluation of anodized aluminum for potential use as an interposer for the test socket industry.” Minerals, Metals & Materials Society (TMS) Annual Meeting. San Diego, CA. February 26-March 2, 2017.

**Jay R. Johnson**. “Entropy and information theory approaches to space plasma complexity I, II.” International School of Space Science: Complexity and Turbulence in Space Plasmas. L'Aquila, Italy. September 18-22, 2017.

**Jay R. Johnson**. “An information-theory approach to space weather.” Lorentz Center Workshop, Space Weather: A Multidisciplinary Approach. Leiden, The Netherlands. September 25-29, 2017.

**Jay R. Johnson**. “Space weather.” Andrews Research Conference. Andrews University, Berrien Springs, MI. May 17-21, 2017.

**Jay R. Johnson**, Eun-Hwa Kim, and Peter Damiano. “Electron

- signatures associated with kinetic ballooning instability,” Abstract A17-1051. Joint IAPSO–IAMAS–IAGA Assembly. Cape Town, South Africa. August 26–September 1, 2017.
- Jay R. Johnson**, Yu Lin, and Simon Wing. “Transport of entropy structures in the magnetotail,” Abstract A24-1172. Joint IAPSO–IAMAS–IAGA Assembly. Cape Town, South Africa. August 26–September 1, 2017.
- Jay R. Johnson**, *Jacob Willard*, Peter Porazik, Tasman Powis, Igor Kaganovich, and Ennio Sanchez. “Field line mapping with electron beams,” Abstract A24-1181. Joint IAPSO–IAMAS–IAGA Assembly. Cape Town, South Africa. August 26–September 1, 2017.
- Jay R. Johnson** and Simon Wing. “Tools for detecting causality in space systems,” Abstract SM14A-01. American Geophysical Union Fall Meeting. New Orleans, LA. December 11-15, 2017.
- Peter A. Damiano, Christopher Carew Chaston, Arthur Jean Hull, and **Jay R. Johnson**. “Electron dynamics in kinetic scale field line resonances,” Abstract SM43B-2724. American Geophysical Union Fall Meeting. New Orleans, LA. December 11-15, 2017.
- Mark Engebretson, Jennifer Posch, **Jay R. Johnson**, *Jesse Snelling*, Eun-Hwa Kim, Sadie Tetrack, Craig Kletzing, Sheng Tian, John R Wygant, Geoffrey D Reeves, and J. F. Fennell. “A parameter study and superposed epoch analysis of the generation of electromagnetic ion cyclotron (EMIC) waves based on Van Allen Probes observations,” Abstract A15-406. Joint IAPSO–IAMAS–IAGA Assembly. Cape Town, South Africa. August 26–September 1, 2017.
- Eun-Hwa Kim and **Jay R. Johnson**. “EMIC wave propagation in the magnetosphere,” Abstract A18-1054. Joint IAPSO–IAMAS–IAGA Assembly. Cape Town, South Africa. August 26–September 1, 2017.
- Eun-Hwa Kim, Peter A. Damiano, **Jay R. Johnson** and Peter Porazik. “Kinetic simulations of electron energization in global scale poloidal Alfvén waves,” Abstract SM11D-2332. American Geophysical Union Fall Meeting. New Orleans, LA. December 11-15, 2017.
- Rachel Rice, Katariina Nykyri, Xuanye Ma, Simon Wing, **Jay R. Johnson**, and Thomas Moore. “Current structures and high frequency waves inside Kelvin-Helmholtz vortices: MMS observations,” Abstract SM11A-2283. American Geophysical Union Fall Meeting. New Orleans, LA. December 11-15, 2017.
- Jesse Michael Snelling*, **Jay R. Johnson**, Mark J. Engebretson, Eun-Hwa Kim, and Sheng Tian. “The role of cold plasma and its composition on the growth of electromagnetic ion cyclotron waves in the inner magnetosphere,” Abstract SM43B-2715. American Geophysical Union Fall Meeting. New Orleans, LA. December 11-15, 2017.
- Nathan Verrill*, *Darrick Horton*, **Jay R. Johnson**, and Simon Wing. “Examining magnetotail stretching and substorm onsets using GOES satellite data and information theory,” Abstract SM23A-2589. American Geophysical Union Fall Meeting. New Orleans, LA. December 11-15, 2017.
- Jacob Willard*, **Jay R. Johnson**, Ennio R. Sanchez, Igor Kaganovich, Michael Greklek-McKeon, and Tasman Powis. “The effect of tail stretching on the ionospheric accessibility of relativistic electron beam experiments,” Abstract SM23B-2603. American Geophysical Union Fall Meeting. New Orleans, LA. December 11-15, 2017.
- Simon Wing and **Jay R. Johnson**. “Untangling the drivers of nonlinear systems with information theory.” American Geophysical Union Fall Meeting. New Orleans, LA. December 11-15, 2017.
- Simon Wing, **Jay R. Johnson**, and Enrico Camporeale. “Untangling the drivers of nonlinear systems with information theory.” Lorentz Center Workshop, Space Weather: A Multidisciplinary Approach. Leiden, The Netherlands. September 25-29, 2017.
- Simon Wing, **Jay R. Johnson**, Enrico Camporeale, and G. Reeves. “Information theoretical approach to discovering solar wind drivers of the outer radiation belt.” Joint IAPSO–IAMAS–IAGA Assembly. Cape Town, South Africa. August 26–September 1, 2017.
- Simon Wing, **Jay R. Johnson**, and George V. Khazanov. “Sources, properties, and energization of auroral particle precipitation.” American Geophysical Union Fall Meeting. New Orleans, LA. December 11-15, 2017.
- Simon Wing, **Jay R. Johnson** and A. Vourlidas. “An information theoretical approach to discovering causality in solar cycle dynamics,” Abstract A30-974. Joint IAPSO–IAMAS–IAGA Assembly. Cape Town, South Africa. August 26–September 1, 2017.

### English

- Vanessa Corredera**. “How dey goin to kill Othello?!’ *Key & Peele* and Shakespearean universality.” Shakespeare Association of America. Atlanta, GA. April 5-8, 2017.
- Kyrk Defino* (with **Vanessa Corredera**). “The erotic exotic: A legacy of lyrical and musical Orientalism from *Madame Butterfly* to *Miss Saigon*.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Ludanne Francis* (with **Vanessa Corredera**). “‘Look at that little macho’: Surveillance and hegemonic masculinity in Junot Diaz’s *The Brief and Wondrous Life of Oscar Wao*.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Eun-Young Julia Kim**. “Korean students’ perceptions of the TOEFL iBT writing.” TESOL International Convention & English Language Expo. Seattle, WA. March 21-24, 2017.
- Eun-Young Julia Kim**. “Utility and bias in the Standardized English Language Proficiency Test from the Expanding Circle: The case of i-TEPS.” International Conferences for World Englishes. Syracuse University, Syracuse, NY. June 30–July 2, 2017.
- Scott Moncrieff** and Anneris Coria-Navia. “Assessing the impact of faculty book club on self-reflection and teaching at Andrews University.” Teaching and Learning Conference. Andrews University, Berrien Springs, MI. March 30, 2017.
- Eun-Young Julia Kim** and **Asta S. LaBianca**. “Ethics in academic writing help for international students in higher education: Perceptions of faculty and students.” Teaching and Learning Conference. Andrews University, Berrien Springs, MI. March 30, 2017.
- L. Monique Pittman**. “History by candlelight: Authenticity claims, Shakespeare, and the BBC’s *Wolf Hall*.” Shakespeare Association of America Annual Meetings. Atlanta, GA. April 5-9, 2017.

**History**

- Ruth Burn* (with **Stephanie Carpenter**). “The influence of culture and tradition on the Navajo Code Talkers’ experience.” Regional Student Phi Alpha Theta Conference. Andrews University, Berrien Springs, MI. April 7, 2017.
- Nataly De La Cruz* (with **Stephanie Carpenter**). “The Bracero program: Working hands.” Regional Student Phi Alpha Theta Conference. Andrews University, Berrien Springs, MI. April 7, 2017.
- Rachel Middaugh* (with **Stephanie Carpenter**). “African American soldiers in World War I.” Regional Student Phi Alpha Theta Conference. Andrews University, Berrien Springs, MI. April 7, 2017.
- Shaianne Pierre* (with **Stephanie Carpenter**). “For blacks only; For whites only: Regional and state conferences of the Seventh-Day Adventist Church.” Regional Student Phi Alpha Theta Conference. Andrews University, Berrien Springs, MI. April 7, 2017.
- Jon-Philippe Rubumuliza* (with **Stephanie Carpenter**). “Red blood, black skin: Adventist healthcare and the issue of race in the District of Columbia 1904-1912.” Regional Student Phi Alpha Theta Conference. Andrews University, Berrien Springs, MI. April 7, 2017.

**International Languages & Global Studies**

- Sonia Badenas**. “La Suisse, les voisins d’à coté.” Michigan World Language Association Annual Conference. Lansing, MI. October 12-13, 2017.
- Pedro Navia**. “Voces olvidadas: Las empleadas domésticas en los Testimonios de Elena Poniatowska” (“Forgotten voices: The housemaids in Testimonies of Elena Poniatowska”). XI National Colloquium on Women. State University of Puerto Rico, Mayaguez, Puerto Rico. April 4-6, 2017.
- Pedro Navia**. “Voces, sonidos y llantos: La marginación en los testimonios de Elena Poniatowska” (“Voices, sounds, cries: Marginalization in Testimonies of Elena Poniatowska”). V Conference on Second Class Citizens in the World. Pontifical Catholic University of Argentina, Buenos Aires, Argentina. October 19-21, 2017.

**James White Library**

- Kathleen M. Demsky**. “Waldenses meet the Reformation: Synod of Chanforan.” Reviving the Reformation: 500 Year Anniversary Conference. Village Seventh-day Adventist Church, Berrien Springs, MI. October 28, 2017.
- Lauren R. Maticio** and **Lawrence Onsager**. “Is SDA history relevant to Millennials? Minnie Day Sype, licensed minister 1902-1956.” Association of Seventh-day Adventist Librarians Annual Conference. Newbold College of Higher Education, Bracknell, UK. June 29, 2017.
- Silas M. Oliveira**. “Aligning academic library space with Millennial’s learning styles.” ASDAL Annual Conference. Newbold College, Berkshire, United Kingdom. June 26-29, 2017.
- Silas M. Oliveira**. “Andrews University’s Leadership Program: Chinese philosophical underpinnings.” World Education Day 2017 Conference. Dalian, China. September 27-29, 2017.
- Lawrence Onsager** and **Terry D. Robertson**. “The Wurker-Gibson Bible Collection and the 500th anniversary of the Reformation.” Association of Seventh-day Adventist Librarians Annual Conference. Newbold College of Higher Education, Bracknell, UK. June 29, 2017.

**Mathematics**

- Anthony Bosman**. “The linking of links and the magic of magicians.” MC<sup>2</sup> Colloquium, Department of Mathematics, Kalamazoo College, Kalamazoo, MI. October 26, 2017.
- Anthony Bosman**. “The role of links in the study of 3-manifolds.” Andrews Research Conference, Andrews University, Berrien Springs, MI. May 18, 2017.
- Shandelle M. Henson**. “Climate change and tipping points in seabird colonies.” Joint Mathematics Meetings. Atlanta, GA. January 4-7, 2017.
- Shandelle M. Henson**. “Models of reproductive synchrony in colonial seabirds.” Joint Mathematics Meetings. Atlanta, GA. January 4-7, 2017.
- Shandelle M. Henson**, James L. Hayward, and J. M. Cushing. “Rising sea surface temperatures and tipping points for seabird colonies.” Biology and Medicine through Mathematics Conference (BAMM!). Richmond, VA. May 18-20, 2017.
- Dorothea Gallos*, *Christiane Gallos*, *Whitney Watson*, and **Shandelle M. Henson**. “Bifurcations in a discrete-time model of seabird reproduction.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- James L. Hayward and **Shandelle M. Henson**. “El Niño, ‘The Blob’, and egg cannibalism in Glaucous-winged Gulls.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- James L. Hayward and **Shandelle M. Henson**. “El Niño, the Blob, and egg cannibalism in Glaucous-winged Gulls.” Pacific Seabird Group Annual Meeting. Tacoma, WA. February 22-26, 2017.
- Isabelle C. Hwang*, *Robert M. Polski*, James L. Hayward, and **Shandelle M. Henson**. “Effects of eggshell coloration on egg cannibalism.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Viktoria L. Kolpacoff* and **Shandelle M. Henson**. “The relationship between the prevalence of HIV/AIDS and associated socioeconomic and behavioral factors.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Athena T. Smith**, *Isabelle Hwang*, James L. Hayward, and **Shandelle M. Henson**. “Glaucous-winged Gull predation on chicken eggs treated with a UV blocking agent.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Clemence Uwimama*, Gordon J. Atkins, James L. Hayward, and **Shandelle M. Henson**. “Nighttime colony occupancy patterns by Glaucous-winged Gulls.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Joon Hyuk Kang**. “Steady state positive solution to population model with competition.” Kangweon-Kyunggi Mathematics Conference. Dankook University, Yongin, South Korea. June 9, 2017.
- Joon Hyuk Kang** and *Timothy Robertson*. “Estimate of positive solutions with uniqueness.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.
- Timothy Robertson* and **Joon Hyuk Kang**. “Coexistence conditions

for nonlinear reaction diffusion population models.” Joint Mathematics Meetings. Atlanta, GA. January 4-7, 2017.

**Yun Myung Oh.** “Riemannian submersion invariant and geodesics.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

**Yun Myung Oh** and Bang-Yen Chen. “Rectifying submanifolds in pseudo-Euclidean spaces.” KKMS-CCMS Joint Conference & Annual Meeting. Dangoon University, Cheon-An, South Korea. June 9, 2017.

*Lukasz Krzywon* and **Yun Myung Oh.** “Time-like rectifying curves in Minkowski space.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

**Marian Prince.** “After-school programming animation on TI-84 CE.” 2017 MCTM State Conference. Traverse City, MI. July 26-27, 2017.

**Marian Prince.** “Making inferential statistics hands-on with TI-Nspire CX.” MichMATYC 2017 Conference. Baker College, Muskegon, MI. October 21, 2017.

**Marian Prince.** “Put the Hub-ba into your STEM program.” MichMATYC 2017 Conference. Baker College, Muskegon, MI. October 21, 2017.

**Marian Prince** and Murney Bell. “Supporting middle grades math standards with TI-84 Plus CE graphing calculator/TI-83 Plus graphing calculator/TI-73 Explorer™ graphing calculator programs and activities.” 2017 T<sup>3</sup> International Conference. Chicago, IL. March 10-12, 2017.

**Lynelle Weldon.** “Encouraging mathematical mindsets through assessment.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

*Rashida S. Smith*, **Lynelle M. Weldon**, James L. Hayward, and **Shandelle M. Henson.** “When should one measure sea surface temperature to predict its time-lagged effects on seabird breeding.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

### Music

**Claudio Gonzalez.** Masterclass, violin/viola students. Burman University, LaCombe, AB. November 25, 2017.

**Adriana Perera.** “Contemporary Levites.” The Journey: European Adventist Youth Congress, Palacio de las Artes y las Ciencias. Valencia, Spain. August 1-5, 2017.

**Adriana Perera.** “Jesús, el centro de la adoración.” Plenary, Music and Worship Conference. Ensenada, Mexico. November 18, 2017.

**Adriana Perera.** “Los instrumentos musicales a la luz de la Biblia.” Workshop, Music and Worship Conference. Ensenada, Mexico. November 18, 2017.

**Adriana Perera.** “Make a joyful noise.” The Journey: European Adventist Youth Congress, Palacio de las Artes y las Ciencias. Valencia, Spain. August 1-5, 2017.

**Adriana Perera.** “Progressive truth and progressive art: A reflection on music ministry as an evolving art.” Plenary, Consumed Worship Conference. Sligo Church, Takoma, MD. November 1-4, 2017.

**Charles Reid.** Masterclass, graduate program in Sacred Music. University of Notre Dame, South Bend, IN. April 12, 2017.

**Charles Reid.** Masterclass. Department of Music, Goshen College, Goshen, IN. October 26, 2017.

**Charles Reid.** Masterclass. State University of New York, Potsdam, NY. April 28, 2017.

**Carla Trynchuk.** Masterclass, Felix Mendelssohn Music Days Festival. Music Conservatory, State Music School, Krakow, Poland. May 16, 2017.

**Carla Trynchuk.** Masterclass. Kalamazoo College, Kalamazoo, MI. May 23, 2017.

**Carla Trynchuk.** Masterclass, Oregon Music Festival. Portland, OR. June 25-26, 2017.

**Chi Yong Yun.** South Bend Music Teachers Association. Shirks Gallery, South Bend, IN. April 2017.

**Stephen Zork.** “The choral music of Martin Luther.” 500<sup>th</sup> Anniversary of Martin Luther’s 95 Theses Conference. Howard Performing Arts Center, Berrien Springs, MI. November 1, 2017.

**Stephen Zork.** Clinician, Minnesota Choir Conference. April 1, 2017.

**Stephen Zork.** Clinician, Ohio Choir Conference. Kettering Hospital Auditorium, Kettering, OH. April 8, 2017.

### Physics

**Gary W. Burdick.** “What does Genesis have to say to a physicist?” Andrews Autumn Conference on Religion and Science. Andrews University, Berrien Springs, MI. October 27-28, 2017. Jack Collins, Roy Gane, Paul Keim, and **Gary Burdick.** Panel Discussion, Andrews Autumn Conference on Religion and Science. Andrews University, Berrien Springs, MI. October 27-28, 2017.

**Mickey Kutzner** and **Margarita Mattingly.** “Small group learning in the Physics Department of Andrews University.” Teaching and Learning Conference. Andrews University, Berrien Springs, MI. March 30, 2017.

### Religion & Biblical Languages

**Erhard H. Gallos.** “Do not neglect the gatherings.” Michigan Academy of Science, Arts and Letters. Western Michigan University, Kalamazoo, MI. March 10, 2017.

**Erhard H. Gallos.** “The spirits of the righteous made perfect.” Eastern Great Lakes Biblical Society Annual Meeting. Akron, OH. March 16-17, 2017.

**Erhard H. Gallos.** “The spirits of the righteous made perfect.” Midwest Region Meeting, Society of Biblical Literature. Saint Mary’s College, Notre Dame, South Bend, IN. February 10-12, 2017.

**Glenn Russell** and **Jony Hajaj.** “We are all immigrants and pilgrims: Biblical themes from Deuteronomy and Hebrews.” Mission in an Era of Migrants and Refugees Conference. Andrews University, Berrien Springs, MI. September 13-16, 2017.

**Davide Sciarabba.** “Juan Calvino: Vida, obra y teología.” Celebrating 500 Years of the Protestant Reformation. Cuban Adventist University, Havana, Cuba. November 10-11, 2017.

**Davide Sciarabba.** Panelist, Celebrating 500 Years of the Protestant Reformation. Cuban Adventist University, Havana, Cuba. November 10-11, 2017.

**Davide Sciarabba.** “The relationship between faith and self-denial in the Reformation: An appraisal of Luther and Calvin’s theology.” Adventist Theological Society Annual Meeting. Boston, MA. November 15-18, 2017.

**A. Rahel Wells.** “Did the reformers misunderstand righteousness by faith? New perspectives on Habakkuk 2:4b.”

Adventist Theological Society Annual Meeting. Boston, MA. November 18, 2017.

### Social Work

- Alina M. Baltazar**, René D. Drumm, Petr Cincala, Desrene Vernon-Brebnor, Duane C. McBride, **Curtis VanderWaal**, and **Krista Cooper**. "Family life education through the radio." Adventist Conference on Family Research & Practice. Andrews University, Berrien Springs, MI. July 20-22, 2017.
- René Drumm, **Alina Baltazar**, Petr Cincala, Duane C. McBride, Desrene Vernon-Brebnor, **Curtis VanderWaal**, and **Krista Cooper**. "Adventist World Radio: Audience recommendations and reported benefits." Adventist Human-Subject Researchers Association Annual Conference. Loma Linda University, Loma Linda, CA. May 17-20, 2017.
- René Drumm, **Alina Baltazar**, and **Krista Cooper**. "Only God is five out of five: Global listener's perceptions of religious radio programming." Society for the Scientific Study of Religion/Religious Research Association Annual Meeting (SSSR/RRA). Washington, D.C. October 12-15, 2017.
- Krista Cooper** and E. Csikai. "Good care and justice for all: Afro-Caribbean immigrant women living with HIV." National Conference on Social Work and HIV/AIDS. Atlanta, GA. May 25-28, 2017.
- Sharon Cuba-Rodriguez, **Krista Cooper**, and Pablo Arriaza. "Understanding the bio-psychosocial and spiritual needs of minority women and HIV." Council on Social Work Education. Houston, TX. October 19-22, 2017.
- Desiree Davis**. "Thinking outside the box: Reaching inner city children." North American Association of Christians in Social Work Annual Convention. Charlotte, NC. November 2-5, 2017.
- Ingrid Slikkers**. "The impact of trauma: How do we present Jesus to those so fractured?" Mission in an Era of Migrants and Refugees Conference. Andrews University, Berrien Springs, MI. September 13-16, 2017.
- Ingrid Slikkers**. Panelist, Mission in an Era of Migrants and Refugees Conference. Andrews University, Berrien Springs, MI. September 13-16, 2017.
- Alicia Wayne, **Ingrid Slikkers**, and Kelly Rybicki. "Foster parent values: Taking trauma informed care one step further." The Alliance USCCB/LIRS National Conference. Washington, D.C. November 9, 2017.
- Shannon M. Trecartin** and Ronda M. Christman. "Housing characteristics of older adults: Differences by age and disability status." Southern Gerontological Society Annual Meeting. Asheville, NC. April 6-9, 2017.
- Ronda M. Christman and **Shannon M. Trecartin**. "Aging adults' reflections of loneliness, volunteerism, and promoting vitality." Southern Gerontological Society Annual Meeting. Asheville, NC. April 6-9, 2017.
- Curtis VanderWaal**, David Sedlacek, **Shannon M. Trecartin**, Nancy Carbonell, and René Drumm. "SDA LGBT+ family support, depression and suicide: Findings and implications." North American Association of Christians in Social Work Annual Meeting. Charlotte, NC. November 2-5, 2017.
- Curtis VanderWaal**, **Shannon M. Trecartin**, and René

Drumm. "Christian LGBT+ family support and suicide: Social Work educators' role in saving lives." Council on Social Work Education Annual Program Meeting. Dallas, TX. October 20-22, 2017.

**Curtis VanderWaal**, David Sedlacek, **Shannon M. Trecartin**, and Nancy Carbonell. "The impact of family support among LGBT+ millennials in the Seventh-day Adventist Church." Adventist Human-Subject Researchers Association Annual Conference. Loma Linda University, Loma Linda, CA. May 17-20, 2017.

### Visual Art, Communication & Design

- Stefanie P. Elkins**. "A professional woman working in Jordan." American Schools of Oriental Research Annual Meeting. Boston, MA. November 18, 2017.
- Alina M. Baltazar, René D. Drumm, Petr Cincala, **Desrene Vernon-Brebnor**, Duane C. McBride, **Curtis VanderWaal**, and **Krista Cooper**. "Family life education through the radio." Adventist Conference on Family Research & Practice. Andrews University, Berrien Springs, MI. July 20-22, 2017.

## 2017 PERFORMANCES, EXHIBITIONS, RECORDINGS & FILM PRODUCTIONS

### Behavioral Sciences

- Herbert W. Helm, Jr.** "Checkmate," original watercolor. Thirty-Fifth Annual Exhibition, Watercolor Society of Indiana. Indianapolis Museum of Art, Indianapolis, IN. October 8-December 3, 2017.
- Herbert W. Helm, Jr.** "Deux Koi," original watercolor. Art Barn Twenty-Fourth Annual Juried Art Exhibition. Art Barn School of Art, Valparaiso, IN. May 20-June 18, 2017.
- Herbert W. Helm, Jr.** "The Hidden Koi," original watercolor. Thirty-Ninth Elkhart Juried Regional. Midwest Museum of American Art, Elkhart, IN. October 6-December 3, 2017.
- Herbert W. Helm, Jr.** "Iquitos," original watercolor. Michiana Annual Art Competition. Box Factory for the Arts, St. Joseph, MI. May 30-June 3, 2017.
- Herbert W. Helm, Jr.** "Under Cupid's Spell," original watercolor. Illiana Artists 17<sup>th</sup> Regional Juried Exhibition. Chesterton Art Center, Chesterton, IN. August 25-September 27, 2017.

### James White Library

**Marianne Kordas**, Karin Thompson, and Lauren Matacio. "Renaissance and Reformation." Presentation and concert, Here We Stand: Luther, the Reformation, and Adventism. Seventh-day Adventist University Theological Seminary, Berrien Springs, MI. October 13, 2017.

### Music

- Claudio Gonzalez**. Guest conductor and soloist, Burman University Symphony Orchestra. Burman University, LaCombe, AB. November 25, 2017.
- Byron Graves**. Clarinet performance (section leader), St. Joseph Municipal Band. John E. N. Howard Bandshell, St. Joseph, MI. July 16, July 30, August 13, and August 20, 2017.
- Byron Graves**. Clarinet performance (trio). Howard Performing Arts Center Sunday Series. Howard Performing Arts Center, Berrien Springs, MI. September 10, 2017.

## RESEARCH & CREATIVE ACTIVITY

### PERFORMANCES, EXHIBITIONS, RECORDINGS & FILM PRODUCTION

- Byron Graves.** Guest conductor, St. Joseph Municipal Band Concerts. John E. N. Howard Bandshell, St. Joseph, MI. August 13, 2017.
- Adriana Perera.** Original compositions: “Father, Forgive,” Mixed choir A cappella; “Spain In My Mind” for two pianos; “Hymn Medley for Violin and Piano”; and “Adagio for Viola and Piano.” Speculations and Faithings, Music Faculty Composition Recital. Howard Performing Arts Center, Berrien Springs, MI. September 10, 2017.
- Charles Reid.** “The Bells,” Rachmaninoff. Crane Symphony Orchestra and Chorus, LoKo Festival of the Arts. State University of New York, Potsdam, NY. April 29, 2017.
- Charles Reid.** “Don Giovanni,” Mozart. Don Ottavio, Kalamazoo Symphony Orchestra. Kalamazoo, MI. May 26, 2017.
- Charles Reid.** “Messiah,” Handel. Columbia Pro Cantare. Columbia, MD. December 3, 2017.
- Charles Reid.** “Requiem,” Verdi. Virginia Symphony Orchestra, Norfolk, VA. March 2017.
- Charles Reid.** “Stabat Mater,” Haydn. University of Notre Dame Orchestra & Chorus, South Bend, IN. September 17, 2017.
- Charles Reid.** “Symphony No. 9,” Beethoven. Goshen College Orchestra and Chorus, Goshen, IN. October 27, 2017.
- Joseph Brooks, **Karin Thompson**, and Craig Scott. Sunday Music Series. Howard Performing Arts Center, Berrien Springs, MI. January 22, 2017.
- Carla Trynchuk.** Violin solo. “Romance No. 1” and “Romance No. 2,” Beethoven; “Mazurek, Op. 19,” Dvorak. Prince George Symphony Orchestra. Prince George, British Columbia, Canada. February 11, 2017.
- Carla Trynchuk.** Violin solo with orchestra. “Concerto for violin and orchestra,” Sibelius. Carson City Symphony, Carson City. October 22, 2017.
- Carla Trynchuk.** Violin solo with orchestra. “Concerto No. 5,” Mozart. Orpheus Chamber Orchestra, Portland, Oregon. June 27, 2017.
- Carla Trynchuk.** Violin solo with Andrews University Orchestra. “Violin concerto in D minor, Op. 47,” Sibelius. Howard Performing Arts Center, Berrien Springs, MI. November 18, 2017.
- Carla Trynchuk** and Elena Braslavsky. Violin recital. 12th Felix Mendelssohn Music Days Festival, Krakow, Poland. May 15, 2017.
- Carla Trynchuk** and Elena Braslavsky. Violin recital. Howard Performing Arts Center, Berrien Springs, MI. April 16, 2017.
- Carla Trynchuk** and Carmen Roberts. Violin recital. Fernwood Botanical Gardens, Niles, MI. July 9, 2017.
- Carla Trynchuk** and **Chi Yong Yun.** Violin and piano recital. Howard Performing Arts Center, Berrien Springs, MI. September 17, 2017.
- Chi Yong Yun.** Concerto performance, Southern University Orchestra. Southern Adventist University, Collegedale, TN. November 2017.
- Chi Yong Yun.** Concerto performance, Jewish Culture Center. November 2017.
- Chi Yong Yun.** Recitalist, University of Illinois Urbana Campaign, Urbana, IL. March 2017.
- Chi Yong Yun.** Recitalist, University of Illinois Urbana Campaign, Urbana, IL. April 2017.

- Stephen Zork.** Conductor, Andrews University Choral Union and AU Symphony Orchestra. “Messiah,” Handel. Howard Performing Arts Center, Berrien Springs, MI. December 1, 2017.
- Stephen Zork.** Conductor, Andrews University Singers, Battle Creek Concert Series. Battle Creek Tabernacle, Battle Creek, MI. January 2017.
- Stephen Zork.** Conductor, Andrews University Singers, Compassionate Model Servant. Great Lakes Adventist Academy, Cedar Lake, MI. October 20, 2017.
- Stephen Zork.** Conductor, Andrews University Singers, Concert Tour (Kalamazoo, Battle Creek, Holland, Lansing, Harbor Springs). February 16-19, 2017.
- Stephen Zork.** Conductor, Andrews University Singers, Good Friday Service. First Presbyterian Church, South Bend, IN. April 14, 2017.
- Stephen Zork.** Conductor, Andrews University Singers, Sam Ocampo & Friends. Howard Performing Arts Center, Berrien Springs, MI. September 24, 2017.
- Stephen Zork.** Conductor, “Sonata for Piano and Oboe: Sonata, Theme and Variations, Rondo” (premier of original composition), Speculations and Faithings. Howard Performing Arts Center, Berrien Springs, MI. September 10, 2017.

### Visual Arts, Communication & Design

- Greg Constantine.** Art Prize Locals Exhibit, Box Factory for the Arts, St Joseph, MI. January 20-March 4, 2017.
- Greg Constantine.** Art Prize Fifth Third Bank Venue, Grand Rapids, MI. September 22-October 8, 2017.
- Greg Constantine.** Box Factory Members Exhibit, St Joseph, MI. October 6-November 8, 2017.
- Greg Constantine.** Elkhart Regional Competition, Elkhart, IN. October 6-December 3, 2017.
- Greg Constantine.** First Presbyterian Church Gallery, Bonita Springs, FL. January 13-February 17, 2017.
- Greg Constantine.** Krasl Members Show, St Joseph, MI. September 15-October 29, 2017.
- Greg Constantine.** Michiana Annual Art Competition, Box Factory, St Joseph, MI. June 16-July 29, 2017.
- Greg Constantine.** New River Fine Art Gallery Season Premier, Fort Lauderdale, FL. October 16-November 8, 2017.
- Greg Constantine.** Prince of Peace Gallery, Portage, MI. October 4-November 6, 2017.
- Greg Constantine.** “Story.” The Gallery at Grace Point, Bentonville, AR. November 9, 2016-January 4, 2017.
- Greg Constantine.** West Michigan Area Show Competition, Kalamazoo, MI. April 9-July 10, 2017.
- Lathan Bidwell** (with **Paul Kim**). “It Is Time.” Campaign: Honorable Mention, Society of Adventist Communicators.
- Jace McKinney** (with **Paul Kim**). “Acts of Messiah: Legacy of the Magi.” Web Video: Honorable Mention, Society of Adventist Communicators.
- Nina Vallado** (with **Paul Kim**). “Sisterly,” film exhibitions and awards (2017):
- Short Film: Best in Class, Society of Adventist Communicators.
  - Official Selection and Best Documentary Short, Boston Shorts Film Festival.



- Official Selection and Audience Choice Award Winner, Great Lakes International Film Festival.
- Official Selection, Soo Film Festival.
- Official Selection, Alexandria Film Festival.
- Official Selection, Bethesda Film Festival.
- Official Selection, Oregon Documentary Film Festival.
- Official Selection, Coastline Children's Film Festival.
- Official Selection, AutFest.

**Diane Myers.** Crossroads Exhibition, Carter Art Center, Metropolitan Community College-Penn Valley, Kansas City, MO. October 6-December 1, 2017.

**Rhonda Root,** Robin Johnson, and Ariel Solis. "Cuilcagh Mountain Regional Research Project." Marble Arch Caves Global Geopark Museum Gallery. Legnabrocky, Florencecourt, United Kingdom. October 8-22, 2017.

## 2017-2018 FACULTY RESEARCH GRANTS

### New Faculty Research Grants

**Vanessa Corredera** (English). "Woke" Shakespeare: Racial Discourse and Representation in Modern *Othellos*.

**Daniel Gonzalez-Socoloske** (Biology). Detection, Population Estimate, and Habitat Assessment of Amazonian Manatees in Amazonas, Brazil & Continued Eastern Massasauga Population and Habitat Assessment in Berrien County MI, USA.

**Ryan Hayes** (Chemistry) and **Brian Wong** (Biology). Mutagenicity Assessment of Burned Plant Amino Acids and Antimutagenic/Anticarcinogenic Effects of Chinese Medicinal Herbs.

**Jay Johnson** (Engineering). Neural Basis for Auditory Scene Analysis.

**Oystein LaBianca** (Behavioral Sciences). Animation of the Cultural Landscape of Hisban and Vicinity in the Longue Duree.

**Gunnar Lovhoiden** (Engineering). Near Infrared Imaging Lab.

**Marlene Murray** (Biology). The Effects of Omega-3 fatty acids on Expression of the *INO1* and *INM1* genes.

**Benjamin Navia** and **John Stout** (Biology). Control of female cricket (*Acheta domestica*) phonotaxis by call selective neuronal processing and molecular regulation.

**Boon-Chai Ng** (Engineering). Exploration of the use of Di-Electro-Active Polymer (DEAP) as a large strain gage.

**L. Monique Pittman** (English). Shakespeare's Contested Nations: Anglo-American Performance of the History Plays in the Third Millennium.

**Melissa Ponce-Rodas** (Behavioral Sciences). Hear Their Voices: Listening to Adventist Survivors of Domestic Violence.

**Melissa Ponce-Rodas** (Behavioral Sciences), **Carole Woolford-Hunt** (Graduate Psychology), **Jimmy Kijai** (Graduate Psychology), and **Tevni Grajales** (Graduate Psychology). A Mixed Methods Approach to exploring the intersectionality of Ethnic Identity, Acculturation, Religiosity and Spirituality on Perceptions of Campus Climate and Diversity Narratives.

**Joel Raveloharimisy** (Behavioral Sciences). Political Economy of Mob Justice in Madagascar.

**David Sedlacek** (Discipleship) and **Alina Baltazar** (Social Work). Male Spouses and Female Pastors: Stressors and Coping Strategies.

**Tiffany Summerscales** (Physics). Estimating the Parameters of Gravitational Waves Using BayesWave.

**Shannon Trecartin** (Social Work) and **Petr Činčala** (Church Ministry). Analysis of the 2017 World Church Survey: Exploration of Church Health and Disability within Five Divisions.

**Robert Zdor** (Biology). Exploring Mustard Seed Meal Effects on the Extended Growth of Velvetleaf Plants under Controlled Field-like Conditions.

### Faculty Research Grant Renewals

**Lisa Ahlberg** (Chemistry). Investigation of 1,3-Dipolar Cycloaddition Mechanisms: Synthesis of Thiolactomycin and Derivatives.

**Karl Bailey** and **Harvey Burnett** (Behavioral Sciences). Effects of Simulated Impairment on Working Memory, Motivations, and Intentions.

**Greg Constantine** (Visual Art, Communication & Design). Creation and Exhibition of "Poetic Licenses."

**Krista Cooper** & **Curt VanderWaal** (Social Work). Identity and Experience: The Lives of Women Living with Symptomatic Uterine Fibroids.

**Oliver Glanz** (Old Testament) & **Rodney Summerscales** (Computing). Making Biblical Hebrew Students Learn the Hebrew Language Not the Hebrew Bible.

**H. Thomas Goodwin** (Biology). Distribution and Paleobiology of Hibernation in Fossil Ground-Dwelling Squirrels from the Meade Basin, SW Kansas, USA.

**Hyun Kwon** (Engineering). Paper Biosensors and Mobile Apps for Affordable Detection of Cancer Biomarkers.

**Kenneth Logan** (Music). Musical Composition Fostering and Efficiency Project.

**Peter Lyons** (Biology). Expression Profile of Carboxypeptidase O in Cells, in Tissues, and in Organs.

**Duane McBride, Petr Cincala, Curt VanderWaal, Desrene Vernon-Brebnor, Rene Drumm, Karl Bailey, Alina Baltazar,** and **Krista Cooper** (Behavioral Sciences, Church Ministry, Social Work, and Visual Art Communication & Design). An Evaluation of Adventist World Radio to Improve Audience Mission Impact.

**Getahun Merga** (Chemistry). Synthesis and Characterization of Conjugated Gold and Silver Nanoparticles with Sulfur Containing Amino Acids.

**Denise Smith** (Biology) and **Desmond Murray** (Chemistry). Hybrid Boronic Acids as Potential Antiglioblastoma Agents.

## 2017-18 EXTERNAL RESEARCH GRANTS

### Federal Grants

**Shandelle M. Henson** and **James L. Hayward.** *RUI: Collaborative Research: Climate Change, Cannibalism, and Reproductive Synchrony: The Effect of Food Shortages on Life History Strategies of Marine Organisms*, National Science Foundation (2014-2019).

Peter Chi and **Jay R. Johnson.** *Understanding the Occurrence of High-M Waves in the Magnetosphere and its Relationship to Solar Wind Conditions*, National Aeronautics and Space Administration (Princeton Plasma Physics Laboratory, US Department of Energy subaward), (2017-2018).

Peter Damiano, Chris Chaston, Art Hull, and **Jay R. Johnson.** *GEM: Comparing Simulations of Electron Acceleration in Kinetic Alfvén Waves with Observations from the Van*

*Allen Probes in the Inner Magnetosphere*, National Science Foundation (Princeton Plasma Physics Laboratory subaward), (2016-2018).

Peter Damiano, and **Jay R. Johnson**. *An Investigation of Electron Acceleration and Energy Transport by Alfvén Waves in the Jovian Magnetosphere*, National Aeronautics and Space Administration (University of Alaska, Fairbanks subaward), (2017-2019).

**Jay R. Johnson** and Simon Wing. *Comparing Global Gyrokinetic Simulations of Ballooning Instability in the Near-Earth Plasma Sheet with Wave Observations Associated with Substorm Onset*, National Aeronautics and Space Administration (2016-2019).

**Jay R. Johnson** and Simon Wing. *Identifying Causal Relationships in Stellar Activity Cycle Dynamics*, National Aeronautics and Space Administration (2016-2018).

Eun-Hwa Kim, Hyomin Kim, and **Jay R. Johnson**. *GEM Collaborative Research: Global Propagation Characteristics of Electromagnetic Ion Cyclotron Waves*, National Science Foundation (Princeton Plasma Physics Laboratory subaward), (2017-2020).

Yu Lin, **Jay R. Johnson**, Vassilis Angelopoulos, J. Perez, and X. Wang. *Global Coupling of Fast Flows in the Magnetotail to Kinetic Scales by Alfvénic Processes*, National Aeronautics and Space Administration (Auburn University subaward), (2017-2020).

Yu Lin and **Jay R. Johnson**. *GEM: Mode Conversion and Kinetic Alfvén Waves at the Magnetopause and Their Effects in the Magnetosphere*, National Science Foundation (Auburn University subaward) (2016-2018).

Katariina Nykyri, **Jay R. Johnson**, Peter Delamere, and Eun-Hwa Kim. *Cross-Scale Wave Coupling Processes in Kelvin-Helmholtz Structures in the Magnetospheric Boundary Layer*, National Aeronautics and Space Administration (Embry Riddle Aeronautical University subaward), (2017-2020).

Simon Wing and **Jay R. Johnson**, *Solar Wind Driving of Upward Field-aligned Currents*, National Aeronautics and Space Administration, (2015-2018).

**Hyun Kwon**, **Rodney Summerscales**, and **Padma Tadi Upala**. *RUI: Development of a Portable ECL Immunosensor with Mobile Technologies*, National Science Foundation (2017-2020).

### Church Grants

**Alina Baltazar**, *Qualitative Assessment of Christian College Students' Perceptions of Motivations and Influences for Health Risk Behaviors*, General Conference of Seventh-day Adventists (2018-2019).

**Petr Činčala**, **Duane McBride**, **René Drumm**, **Shannon Trecartin**, Paul Brantley, and Meredith Carter. *Church Member Global Study: North American Division*, General Conference of Seventh-day Adventists (2016-2018).

**Petr Činčala**, Pavel Zubkov, Dmitriy Fokin, **René Drumm**, **Shannon Trecartin**, and **Duane McBride**. *Church Member Global Study: Euro-Asia Division*, General Conference of Seventh-day Adventists (2016-2018).

**Petr Činčala**, **Yutaka Inada**, **René Drumm**, **Shannon Trecartin**, Gustavo Emanóel, **Christie Chui-Shan**, and **Duane McBride**. *Church Member Global Study: Northern Asia-Pacific Division*, General Conference of Seventh-day Adventists (2016-2018).

**Petr Činčala**, Paul Madathumchal Chacko, Vara Prasad Deepati, Benny Joseph, **René Drumm**, **Shannon Trecartin**, and **Duane McBride**. *Church Member Global Study: Southern Asia Division*, General Conference of Seventh-day Adventists (2016-2018).

**Petr Činčala**, Jurriën den Hollander, Audrey Anderson, **René Drumm**, **Shannon Trecartin**, and **Duane McBride**. *Church Member Global Study: Trans-European Division*, General Conference of Seventh-day Adventists (2016-2018).

**Petr Činčala**, **Desrene Vernon-Brebnor**, **Shannon Trecartin**, and **John Gavin**. *Mission-Effectiveness Evaluation of Adventist Review*, General Conference of Seventh-day Adventists (2017-2018).

**Duane McBride**, **Petr Činčala**, **Karl Bailey**, **René Drumm**, **Alina Baltazar**, and **Shannon Trecartin**. *Church Member Global Study: Instrument Development and Meta-Analysis*, General Conference of Seventh-day Adventists (2016-2018).

**David Sedlacek** and **Alina Baltazar**, *Male Spouses and Female Pastors: Stressors and Coping Strategies*, General Conference of Seventh-day Adventists (2017-2019).

**Curtis VanderWaal**, **Shannon Trecartin**, and **David Sedlacek**. *LGBT Youth and a Hostile Church Environment*, North American Division of Seventh-day Adventists (2017-2018).

### Other Grants & Foundations

**Hyun Kwon**. *Google IgniteCS*, Google Inc. (2017-2018).

**Anneris Coria-Navia** and **Jerome Thayer**, *Versicare and North American Division of Seventh-day Adventists*. (2017-2018).

**Curtis VanderWaal**. *United Way Program Evaluations*, United Way (2016-2018).

**Curtis VanderWaal**. *Get READY Program Evaluation*, United Way (2017-2018).

**Curtis VanderWaal**. *Girls on the Run*, United Way (2017-2018).

## 2017-2018 UNDERGRADUATE RESEARCH SCHOLARS

**Rayford Alva** (Brian Wong, Biology), *Ames Test optimization for evaluating mutagenicity of arginine-based heterocyclic amines*. Fall 2017, Spring 2018

**Lauren Bitterman** (Ryan Hayes, Chemistry), *Copper(II) Sequestration by PAMAM Dendrimers in tap water*. Fall 2017

**Daniel Bronakowski** (Boon-Chai Ng, Engineering), *Exploration of the Use of Di-Electric Electro-Active Polymer, DEAP, as a large strain gage*. Fall 2017, Spring 2018

**Jaymes Carson** (Hyun Kwon, Engineering), *COMSOL simulation of diffusion and ECL reaction*. Fall 2017

**Jisu Choi** (Hyun Kwon, Engineering), *Mobile app development for ECL biosensor*. Summer 2017

**Jennifer Coleman** (Ruben Munoz-Larrondo, Religion), *Application of hermeneutical methodologies for biblical theology, and A Manual for Hermeneutics and Exegesis: An Eclectic Method*. Summer 2017, Fall 2017, Spring 2018

**Alma Cortez** (Constance Gane, Old Testament), *Analysis, image rendering, and publication of Tall Jalubs Field B (11-19) pottery*. Summer 2017

**Shekinah Dosunmu** (Benjamin Navia, Biology), *Evaluation of the L3 auditory neurons selective response in male-exposed female cricket Acheta domesticus*. Fall 2017, Spring 2018

**Samuel Dronen** (Boon-Chai Ng, Engineering), *Exploration of the use of di-electric electro-active polymer, DEAP, as a large strain gage*. Summer 2017, Fall 2017, Spring 2018

**Leiali'I Edwards** (Harvey Burnett, Behavioral Sciences), *Examination of resilience and sex in PFA*. Fall 2017, Spring 2017

**Trevor Furst** (Daniel McBride, Behavioral Sciences), *Impact of family stimulating environment on children's social and cognitive development*. Fall 2017, Spring 2018

**Talisa Gonzalez** (Karl Bailey, Behavioral Sciences), *The effects of adverse childhood experiences on adult well-being*. Spring 2018

**Carolyn Goyne** (Lisa Ahlberg, Chemistry), *Modified Isoxazoline rings for the treatment of malaria*. Spring 2018

**Jesse Gray** (Ryan Hayes, Chemistry), *Synthesis and analysis of red perylenedimide core PAMAM dendrimers*. Summer 2017

**Abigail Hall** (Herbert Helm, Behavioral Sciences), *Generational gender differences in mate selection*. Spring 2018

**Nicole Hwang** (Monique Pittman, English), *In the House of God: Divine authority and the collectivity of spiritual experience in George Herbert's The Temple and Ralph Vaughan Williams' Five Mystical Songs*. Fall 2017

**Jacob Jackson** (Desmond Murray, Chemistry), *Sequential reactivity of chlorosulfonylisocyanate with aldehydes and amines*. Fall 2017, Spring 2018

**Daniel Jhang** (Denise Smith, Biology), *Hybrid boronic acids as potential anti-cancer agents in glioblastoma brain cancer*. Fall 2017

**Chelsea Kent** (Benjamin Navia, Biology), *Does exposure to males influence the phonotactic selectiveness of female crickets Acheta domesticus towards model calls?* Fall 2017, Spring 2018

**Chan Hee Kim** (David Nowack, Chemistry), *Ascorbic acid activity of PAMAM dendrimer stabilized aqueous solutions*. Fall 2017, Spring 2018

**Teddy Kim** (Getahun Merga, Chemistry), *Synthesis of naked silver particles by hydrogen gas absorbed on platinum and their aggregation with selected biomolecules*. Spring 2018

**Victoria Kim** (Ryan Hayes, Chemistry), *Prep-HPLC method development to isolate potentially carcinogenic, arginine-based heterocyclic amines*. Summer 2017, Fall 2017

**Taejun Lee** (Lisa Ahlberg, Chemistry), *Application of Isoxazoline rings as antibiotic agents*. Fall 2017, Spring 2018

**Tammy Leong** (Getahun Merga, Chemistry), *Application of paper analytical devices as simple test cards for illicit drug analysis*. Fall 2017, Spring 2018

**Kelly Lorenz** (Stefanie Elkins, Visual Art, Communication & Design), *Creating a textile museum exhibit: Conservation and accessibility*. Fall 2017

**Amy Manjarres** (Melissa Ponce-Rodas, Behavioral Sciences), *College student perspectives on domestic violence*. Summer 2017, Fall 2017

**Daniel Marsh** (Hyun Kwon, Engineering), *Electrochemiluminescent paper based biosensor*. Summer 2017

**William Mzumara** (Hyun Kwon, Engineering), *Development of an ECL biosensor for chemistry education*. Spring 2018

**Taejun Ok** (Marlene Murray, Biology), *The effects of the Omega-3 fatty Acid DHA on intracellular Inositol and expression of the INO1 Gene*. Fall 2017, Spring 2018

**Ezra Panjaitan** (Daniel Gonzalez, Biology), *Differences in the number of teeth and mesowear in manatees of different species and habitat types*. Fall 2017, Spring 2018

**Rachelle Pichot** (Harvey Burnett, Behavioral Sciences), *The impact of age on proactive resilience*. Fall 2017, Spring 2018

**Ingrid Radulescu** (Monique Pittman, English), *The Romanian Bard: Translating Shakespeare for a post-Communist nation*. Fall 2017

**Paul Roschman** (Oystein LaBianca, Behavioral Sciences), *Animation of the cultural landscape of Hisban and vicinity in the Longue Duree*. Summer 2017, Fall 2017, Spring 2018

**Jon-Philippe Ruhumuliza** (Ruben Munoz-Larrondo, Religion), *KATA XPISTON KATA XPISTON: The pursuit of Christian inclusion amidst community critique in Col. 2:6-23*. Summer 2017, Fall 2017, Spring 2018

**Michaella Souza** (Desmond Murray, Chemistry), *Synthesis and activity of novel dual binding transfectors*. Summer 2017, Fall 2017, Spring 2018

**Nathaniel Srikureja** (Ryan Hayes, Chemistry), *Prep-HPLC method optimization to isolate potentially carcinogenic, Arginine-based Heterocyclic Amines*. Spring 2018

**Jonathan Swerdlow** (Hyun Kwon, Engineering), *Mobile app development for ECL biosensor*. Summer 2017

**Justin Wiley** (Lubber Martins, Physics), *Thermodynamic study of a regenerative absorption refrigeration system*. Summer 2017

**Jacob Willard** (Jay Johnson, Engineering), *Using relativistic electron beams to determine magnetic connectivity in the magnetosphere*. Summer 2017

**Taemin Yoon** (Joel Raveloharimisy, Behavioral Sciences), *Prevalence of co-infection of Human Immunodeficiency Virus and Hepatitis B and Hepatitis C: Multicenter study in Madagascar*. Summer 2017

## 2017-2018 GRADUATE RESEARCH GRANT RECIPIENTS

**Roshelle M. Hall** (Daniel Gonzalez-Socoloske, Biology), *Habitat Assessment and Use, and Genetic Determination of Eastern Massasauga Rattlesnakes in Berrien County, Michigan Historical Sites*.

**Tachica Mc Coy** (Joel Raveloharimisy, Behavioral Sciences), *Political Economy of Mob Justice in Madagascar*.

**Angy Plata** (Joel Raveloharimisy, Behavioral Sciences), *Political Economy of Mob Justice in Madagascar*.

