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WELCOME

Aims

Rock Research Expo (RRE) serves as a newsletter that keeps our campus informed of the scholarly endeavors and potential research opportunities for both faculty members and students. Specifically, Rock Research Expo aims to:

- Share new knowledge of different disciplines on campus,
- Provoke students' interests and curiosity in knowledge exploration,
- Promote long term academic communication and collaboration on campus, and most importantly,
- Develop a success-driven environment of learning for both faculty members and students.

Scope

- Recent publications of faculty members and students on campus (title, authors, and short abstract),
- Research Projects and Grant Acquisition (title, authors, brief introduction),
- Recent conference presentations, performances, and exhibitions of faculty members and students,
- Announcement of visiting scholars on campus and a short biography for each scholar,
- Announcement of research related activities on campus.

Policies

- Information submitted should be an in-depth elaboration in layman's terms to excite the readers,
- Anyone on campus can submit their information via email. Student submissions need to have a supporting letter or email from a faculty member,
- The basic submission standards for the newsletter will be that the submitted material be legible, pertinent, and appropriate to present to the campus community,
- Authors are responsible for the accuracy of their submissions. Newsletter editors and SRU will NOT be responsible for the verification of the submitted information.



One of the key elements of the Academic Affairs Strategic Plan is developing high impact practices for students and faculty. High impact practices are deemed essential to developing students as educated citizens, and studies show that these practices have a positive effect on retention and student success.

Research that teams faculty and students is one of these practices.

Slippery Rock is proud to offer the Rock Research Expo (RRE) again. RRE highlights the impressive accomplishments of SRU's faculty in the areas of research, publications, presentations, performances and exhibitions. Moreover, these faculty often go to great lengths to involve students in their research and to mentor them in their own research. Although the creation of new knowledge is a key element of this process, we are more proud of the collaboration and learning that occurs between teacher and learner.

Faculty scholarly engagement is an index of curiosity, creativity, intellectual dynamism, and enthusiasm, and this enthusiasm for learning is infectious and carries through to the classroom. It promotes enduring academic interaction and collaboration, which is a hallmark of our mission and strategic initiatives. Rock Research Expo provides an important venue for sharing these exciting developments.

Best regards,

Philip Way

Provost

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FEATURE STORY

The Symposium for Student Research, Scholarship, and Creative Achievement

The Symposium for Student Research, Scholarship, and Creative Achievement at Slippery Rock University of Pennsylvania provides a forum where student achievement in all disciplines is shared and celebrated.

The Symposium and The Journal of Scholarly Endeavor, (which contains abstracts of every Symposium presentation), showcase significant examples of student-faculty collaboration, emblematic of the innovative teaching and learning taking place at SRU. By participating in the Symposium students learn about research methods in their disciplines, the scholarly process of information dissemination, and the creative activity of exhibiting and performing original work.



Over the fourteen years of its existence, the Symposium has yielded important benefits. By providing student scholars, artists and writers with a chance to present their work in a conference setting, in front of a critical audience of peers, the Symposium has helped spark enthusiasm for original work in all disciplines.

The Symposium is a partnership between many individuals across the University. Obviously, most important are the students themselves and their faculty sponsors and mentors. Annually, a core group of faculty has contributed significant time and effort to working directly with students on research, scholarship and creative projects that go beyond the requirements of day-to-day classwork.



In its most basic expression, this student-faculty partnership:

- is a way to show students that discovery can take place;
- is an experience where students do something that for them is original;
- is an experience that makes the subject come alive for the student;
- is an opportunity to influence the students' lives, growth and maturation;
- is an opportunity for one person, the faculty member, to have a real impact on the student.



This is a basic vision that admits many different kinds of discovery experiences, allowing students to understand well the essence of research, scholarship or creative achievement in an academic discipline. The lessons learned by the students are transferrable to the process of academic discovery in general, and the challenge of creating real world value, contributing leadership, and achieving intellectual fulfillment as productive employees and citizens.



When the Symposium began in 2000 the focus was on a traditional concept of “research” as defined in the basic sciences. During the past 14 years that idea has enlarged to comprise high-level work in all disciplines, whether testing hypotheses in laboratory experiments, conducting studies of human and animal subjects, marketing analyses, case studies, literary criticism and philosophical inquiry, art creation in all media, choreography and dance performance, theatrical dramaturgy, and music composition and performance.



Students work with their faculty sponsors to develop project plans, which they submit in early January to the Symposium Committee. Submissions are reviewed and critiqued by volunteer faculty reviewers in each College, with the help of Symposium Committee teaching faculty members appointed by the deans of each College. Between late February and the Symposium, which is held during the week following Honors Convocation, the students complete their work and prepare their presentations. Students may elect to conduct oral or poster presentations, to stage performances, or to mount exhibits. Since 2013 the Robert M. Smith Center has been available as a professional-quality conference venue which affords student participants an authentic academic conference experience. This year, 75 presentations will take place between 8:00 AM and 4:00 PM in the Smith Center third floor ballrooms and theater.



Besides the student participants themselves and their faculty sponsors, many individuals contribute to the success of the Symposium event. Staff of Information and Administrative Technology Services, the Smith Center, Facilities, Catering, Academic Affairs, the individual Colleges, and the Symposium Committee all work toward the common goal of producing a successful event. The Deans, Provost Way and President Norton sustain the ongoing effort to expand opportunities for SRU students who seek to work with faculty on research, scholarship, and creative projects. Our aim is to help establish SRU as the premier University in the Pennsylvania State System of Higher Education dedicated to student-faculty collaboration in teaching and learning.

RECENT PUBLICATIONS

Ambrosio, Nora (Department of Dance)

- (2012) *Learning About Dance: Dance as an Art Form and Entertainment* (6th Edition), Kendall/Hunt Publishing Company, Dubuque, IA., has sold over 200,000 copies and is used in dance programs across the country and in Canada.
- (2012) *The Excellent Instructor and the Teaching of Dance Technique* (2nd Edition), Kendall/Hunt Publishing Company, Dubuque, IA., includes a new instructional DVD for dance teachers and students.

Amodei, Michelle (Department of Elementary/Early Childhood Education), M.R. Jalongo, J. Myers, J.

Onchwair, and R.M. Gargiulo (2013) "Survey of publication outlets in early childhood education: Descriptive data, review processes, and advice to authors," *Early Childhood Education Journal*, 41(2), 115-123.

Anderson, Melanie (School of Business)

- (2013, July) "WorldCom's Betty Vinson and Cynthia Cooper: A tale of two professionals," *Strategic Finance*, 95(7), Carl Menconi Case Writing Competition Winner, 44 – 51 (plus separate teaching notes).
- (2013, March) "Koss Corporation corporate governance, internal controls, and ethics: What went wrong?" *IMA Educational Case Journal*, 6(1), Art. 3 (plus separate teaching notes).
- (2013) "Building accounting students' communication skills," *Management Accounting Quarterly*, summer 2013, 14(4), 32–43.

Arnhold, Robert (Department of Physical and Health Education)

- (2013) "A report on advocacy for physical education for students with disabilities," *Palaestra*, 27(4), 6.
- (2013) "Senator Harkin Pushes for increased transition services," *Palaestra*, 27(3), 6-7.
- (2013) "Transition services should include physical fitness and physical activity goals," *Palaestra*, 27(2).

Arnhold, Robert (Department of Physical Education),

Lauren Young, and Terri Lakowski (2013) "Part I—The historical and legal background leading to the office of civil rights 'Dear Colleague Letter'," in Ronald Davis (ed), "Feature: Helping general physical educators and adapted physical educators address the office for Civil Rights Dear Colleague Guidance Letter", *Journal of Physical Education, Recreation & Dance*, 84(8), 20-23.

Arnhold, Robert (Department of Physical and Health Education) and D. Auxter

- (2012) "Physical activity and disability over the life-spectrum," *Palaestra*, 26(1), 8-9.
- (2013) "Disability census data: implications for legislation for physical activity," *Palaestra*, 27(1).

Biddle, V.S., Kern, J., Brent, D.A., Thurkettle, M.A.

(Department of Nursing), Puskar, J.R., and Sekula, K. (In Press) "Student assistance program outcomes of students at risk for suicide: Drug and alcohol policy violations and suspensions," *Journal of School Nursing*.

Brown, George P. (Department of Political Science)

(2014) "The North Korean Nuclear Weapons Threat, Japanese Reactions and the Possibility of a Northeast Asian Nuclear Arms Race," in David Jones and Michele Marion (eds), *The Dynamics of Cultural Counterpoint in Asian Studies*, State University of New York Press, Albany, 2014.

Buttermore, John (School of Business), Elliott Baker (Academic Records and Summer School), and David Culp (School of Business)

(2014) "Providing affordable access to higher education through year round operation: a case study in public higher education," *College & University Journal*, accepted for publishing in summer, 2014.

Champion, David R. (Department of Criminology and Criminal Justice)

(2013) "Drug enforcement and confidential informants: ethical issues in the criminal justice classroom," *Ethics and Critical Thinking Journal*, 2013 (3). Retrieved from <http://www.franklinpublishing.net/ethicscriticalthinking.html>

Chatterjee, Anindya (School of Business) and Richard

Parker (2012) "Consumer Preference for Bulk Purchasing:

Evidence from Exploratory Surveys,” *Global Business Review*, 1(3), 173-178.

Abstract: Many consumers are willing to purchase goods in large quantities in exchange for lower prices. Marketers have responded by offering incentives for bulk purchases, and by developing new retail formats such as warehouse clubs. However, little research has been done to identify the characteristics of consumers interested in bulk purchasing. The present research based on surveys of American and Singaporean consumers, sheds some light on demographic and lifestyle characteristics of consumers that marketers may benefit from targeting with incentives for bulk purchases.

Colvin, Andrew (Department of Philosophy)

- (2014) “Mencius,” 5,000 word article in Kerry Brown and Karen Christensen (eds), *The Berkshire Dictionary of Chinese Biography*, London: Berkshire Publishing.
- (2014) “Yang Xiong,” 6,000 word article in Kerry Brown and Karen Christensen (eds), *The Berkshire Dictionary of Chinese Biography*, London: Berkshire Publishing.

Corrado, R. and **Sarah Kuehn (Department of Criminology and Criminal Justice)** (2014 forthcoming) “Policy issues regarding the over-representation of incarcerated Aboriginal young offenders in a Canadian context,” *Youth Justice: An international journal*.

DeNicola, Dean M. (Department of Biology) and M.G. Kelly (2014, in press) *Role of Periphyton in Ecological Assessment of Lakes*, Freshwater Science.

DeNicola, Dean M. (Department of Biology) and **Michael G. Stapleton (Department of Geography, Geology, and the Environment)** (2014, in press) “Benthic diatoms as indicators of long-term changes in a watershed receiving passive treatment for acid mine drainage,” *Hydrobiologia*, March 2014.

DiMarco, Danette (Department of English)

- (2013) Review in *Canadian Literature: A Quarterly of Criticism and Review* (Fall 2013).
- (2013) “To Teach and Delight,” Review of J. Brooks Bouson, Margaret Atwood: *The Robber*

Bride, The Blind Assassin, Oryx and Crake (Continuum Publishing Group), *Canadian Literature*, June 15, 2012, Web. March 19, 2014.

Edwards, Kerry L. (Department of Criminology and Criminal Justice) (2014) “Prison work: Transforming identity and reducing recidivism,” in M. S. Crow and J. O. Smykla (eds), *Offender reentry: Rethinking Criminology and Criminal Justice*, Burlington, MA: Jones & Bartlett Learning, 51-74.

Emekter, Riza, **Benjamas Jirasakuldech (School of Business)**, and Peter Went (2012) “Rational speculative bubbles and commodities markets: application of duration dependence test,” *Applied Financial Economics*, 22(7), 581-596.

Abstract: The presence of rational speculative bubbles in 28 commodities is investigated using the duration dependence test on the stochastic interest-adjusted basis. Eleven of 28 commodities experienced some episodes of rational speculative bubble. These commodities are West Texas Intermediate (WTI) crude oil, coffee, corn, soya bean No. 2, soya bean meal and oil, wheat No. 2 soft red and hard winter wheat, lean hogs, gold and platinum. Additionally, natural gas, propane, live cattle, and pork bellies exhibit mean-reversion in the interest-adjusted basis.

Erickson, Matthew J. (Department of Special Education) (2013) “Opportunities beyond the brick and mortar of traditional public schools: applying to cyber charter schools,” *American Association for Employment in Education - The Job Search Handbook For Educators*, 47th Annual Edition, 43-44.

Erickson, Matthew J., Jeremy M. Lynch, and Robert S. Isherwood (Department of Special Education) (2014) “Engaging students through virtual classrooms: the use of blackboard collaborate in online education,” *Conference on Higher Education Pedagogy*, 108-109, Blacksburg, VA: Virginia Tech.

Erickson, Matthew J. (Department of Special Education), K.H. Larwin, and **Robert S. Isherwood (Department of Special Education)** (2013) “Examining a decade of reading and mathematics student achievement among primary and secondary traditional public school and charter school

students: a meta-analytic investigation," *Journal of College Teaching & Learning*, 10 (4), 213-222.

Figel, Jared (Department of Philosophy, major) (2013) "Swinburne's is there a God? A critical response," *Janua Sophia* (XV), 23-37.

Findler, Richard (Department of Philosophy) (2013) "Myself and Other Less Important Subjects," *The European Legacy: Toward New Paradigms*, 18:7, 939-940. DOI: 10.1080/10848770.2013.838045, To link to this article: <http://dx.doi.org/10.1080/10848770.2013.838045>

Galbraith, Diane D. (School of Business) and Susan L. Lubinski (Department of Professional Studies and Interdisciplinary) (2012) *Academic Integrity: Implications for Human Resource Management, Business Research Yearbook: Business and Global Social Responsibility*, Vol. XIX (1), 295-302.

Getsay, Heather and Catherine Rudowsky (Bailey Library) (2013) "Identifying the serials librarian: Serials-related position titles in the United States and around the world," *The Serials Librarian*, 65(3-4), 374-388. doi:10.1080/0361526X.2013.836463.

Abstract: Serials are a familiar academic job responsibility, but serials librarians are becoming difficult to identify. While serials continue to exist, the transition from print to electronic resources contributes to a trend in which the job titles of librarians who manage serials no longer include the word "serials." A content analysis was conducted to examine the prevalence of the word "serials," as well as common synonyms including "continuing resources" and "periodicals," in U.S. and non-U.S. academic library job titles. In a sample of 98 U.S. national and regional universities and colleges, 18 librarian and 98 staff job titles were found that included the word "serials" or a synonym for serials. By comparison, a sample of 71 universities from 8 non-U.S. countries revealed 17 librarian and 85 staff job titles that included the word "serials" or a synonym for serials.

Hadley, Susan (Department of Music)

- (2013) *Experiencing Race as a Music Therapist: Personal Narratives*, Barcelona Publishers.
- (2013) "Dominant Narratives, Complicity, and the Need for Vigilance," *Arts in Psychotherapy*, Special Issue on Gender, Health, and the Creative Arts Therapies, 40(4), 373-381.
- (2013) "Analytical Music Therapy," in Kevin Kirkland (ed). *Dictionary of Music Therapy*, New York: Routledge.
- (2013) "Empowerment," in Kevin Kirkland (ed), *Dictionary of Music Therapy*, New York: Routledge.
- (2013) "Epistemology," in Kevin Kirkland (ed), *Dictionary of Music Therapy*, New York: Routledge.
- (2013) "Ethnicity," in Kevin Kirkland (ed), *Dictionary of Music Therapy*, New York: Routledge.
- (2013) "Feminist music therapy," in Kevin Kirkland (ed), *Dictionary of Music Therapy*, New York: Routledge.
- (2013) "Hip Hop as Therapy," in Kevin Kirkland (ed), *Dictionary of Music Therapy*, New York: Routledge.
- (2013) "Inter-therap," in Kevin Kirkland (ed), *Dictionary of Music Therapy*, New York: Routledge.
- (2013) "Race," in Kevin Kirkland (ed), *Dictionary of Music Therapy*, New York: Routledge.
- (2013) "Rap as Therapy," in Kevin Kirkland (ed), *Dictionary of Music Therapy*, New York: Routledge.
- (2013) "Social Justice," in Kevin Kirkland (ed), *Dictionary of Music Therapy*, New York: Routledge.

Hadley, Susan (Department of Music) and W. Davis (2014 in production) "History of Music Therapy," in Barbara Wheeler (ed), *Music Therapy Handbook*, New York: Guildford Press.

Hadley, Susan (Department of Music) and N. Steele (2013) "Music Therapy," in Eric Green and Athena Drewes (eds), *Blending Play and Expressive Arts Therapy Techniques: A Guidebook for Child and Adolescent Clinicians and Educators*, Hoboken, NJ: John Wiley & Sons, Inc.

Hadley, Susan, Nicole D. Hahna (Department of Music), V. Miller, and M. Bonaventura (2013). "Setting the scene: an overview of the use of music technology in practice," in W. Magee (ed), *Music technology in therapeutic and health settings*. London, UK: Jessica Kingsley.

Hahna, Nicole (Department of Music) (2013) "Towards an emancipatory practice: Incorporating feminist pedagogy in the creative arts therapies," *The Arts in Psychotherapy*, 40(4), 436-440, doi: 10.1016/j.aip.2013.05.002.

Hartmann, Heike (Department of Geography, Geology, and the Environment) and L. Andresky (Department of Geography, Geology, and the Environment, major) (2013) "Flooding in the Indus River Basin - A Spatiotemporal Analysis of Precipitation Records," *Global and Planetary Change*, 107, 25-35.

Hartmann, Heike (Department of Geography, Geology, and the Environment) and H. Buchanan (Department of Geography, Geology, and the Environment, major) (2014) "Trends in Extreme Precipitation Events in the Indus River Basin and Flooding in Pakistan," *Atmosphere-Ocean*, 52, 77-91.

Hartmann, Heike, Jack Livingston, Michael Stapleton (Department of Geography, Geology, and the Environment) (2013) "Seasonal Forecast of Local Lake-Effect Snowfall: The Case of Buffalo, New York, U.S.A.," *International Journal of Environmental Research*, 7, 859-868.

Hilton, Jason T. (Department of Secondary Education/Foundations of Education)

- (2013) "Pedagogy for digital literacy: Advancing 'hyperreading' skills in the classroom," *Pennsylvania Teacher Educator*, 12(1), 37-43.
- (2013) "Fostering critical dialogue within online courses in higher education," *Journal of Online Learning and Teaching*, 9(4), 602-614.
- (2013) coauthor with J. Canciello, "Tablet English: Student perceptions of an iPad-based digital literacy curriculum," *International Journal of Digital Literacy and Digital Competence*, 4(4), 1-14.
- (2014) "Developing deliberative democracy skills in middle level classrooms: A pedagogical model,"

Betwixt and Between: Education for Young Adolescents, 1(1), 13-20.

Holmstrup, Michael (Department of Exercise and Rehabilitative Sciences), AJ Bidwell, and TJ Fairchild (2014) "Body image does not predict caloric estimation accuracy," *Topics in Clinical Nutrition*, 29(1), 15-21.

Abstract: The present study characterized caloric estimation accuracy of prepared, healthy meals, with the specific hypothesis that individuals with greater body-dissatisfaction will overestimate calorie content. Ninety-eight individuals estimated the number of calories in four separate healthy meals. Differences in the bias of caloric estimation were determined in relation to sex, BMI, body fat percentage, and body image dissatisfaction. Subjects, regardless of sex, weight status, and body image tended to overestimate the number of calories in prepared, healthy meals. Quantifying portion size makes the task of caloric estimation in prepared meals more difficult, and should be addressed to enhance accuracy.

Holmstrup, Michael (Department of Exercise and Rehabilitative Sciences), TJ Fairchild, S Keslacy, RS Weinstock, JA Kanaley (2013) "Multiple short bouts of exercise over 12-h period reduce glucose excursions more than an energy-matched single bout of exercise," *Metabolism*, Accepted 11 December 2013, doi: 10.1016/j.metabol.2013.12.006.

Objective: Long, uninterrupted bouts of sedentary behavior are thought to negatively influence postprandial glucose and insulin concentrations. We examined the effects of a 1-h bout of morning exercise versus intermittent walking bouts of short duration on glucose excursions and insulin secretion over 12-h. Materials/Methods: Eleven young, obese individuals (18–35 years, BMI > 30 kg/m²) with impaired glucose tolerance were studied on three 12-h study days: 1) sedentary behavior (SED); 2) sedentary behavior with 1-h morning exercise (EX) at 60%–65% VO_{2peak}; and 3) sedentary behavior with 12-hourly, 5-min intervals of exercise (INT) at 60%–65% VO_{2peak}. Meals (1046 kJ/meal) were provided every 2-h. Blood samples were collected every 10 min and measured for glucose, insulin, and c-peptide concentrations. Results: Glucose iAUC (12-h) was attenuated in the INT and SED conditions compared to the EX condition (P < 0.05). Glucose concentrations were

higher in the EX compared to the SED condition for ~ 150 min (20% of the study day), and comparison of the EX-INT study days revealed that glucose concentrations were greater for ~ 240 min (~ 1/3 of the 12-h day). In the SED condition, the 12-h insulin iAUC was ~ 15% higher ($P < 0.05$) compared to the INT and EX conditions. Insulin production rate was found to increase ~ 20% with INT exercise vs. the SED and EX condition ($P < 0.05$).

Conclusions: Short, frequent periods of exercise attenuated glucose excursions and insulin concentrations in obese individuals to a greater degree than an equal amount of exercise performed continuously in the morning.

Hydock, David S., Chia-Ying Lien, **Jensen, Brock T. (Department of Exercise and Rehabilitative Sciences)**, Carole M. Schneider, and Reid Hayward (2013) "Switching to a low-fat diet attenuates the intensified doxorubicin cardiotoxicity associated with high-fat feeding," *Cancer Chemotherapy Pharmacology*, 71(6), 1551-1560.

Abstract: A high-fat diet has been shown to exacerbate the cardiotoxicity associated with the chemotherapy drug doxorubicin (DOX); however, it is unknown whether switching from a high-fat diet to a low-fat diet can attenuate the intensified DOX cardiotoxicity. The purpose of this study was to investigate the effects of a low-fat diet on DOX-induced cardiotoxicity in rats previously fed a high-fat diet. Male rats were randomly assigned to consume a Western diet or a low-fat diet for 6 weeks. Western diet-fed rats were then further randomized to switch to the low-fat diet (WD-LF) or continue with the Western diet (WD). One week later, WD-LF and WD received 1 mg/kg DOX per day for 10 consecutive days and continued with their diets (WD-LF + DOX, WD + DOX). LF was further randomized to receive 1 mg/kg DOX per day for 10 consecutive days (LF + DOX) or saline injections as a control (LF + SAL). Four weeks following the first injection, cardiac function was analyzed, and left ventricles were analyzed for cardiotoxicity indices. When compared to LF + SAL and LF + DOX, WD + DOX exhibited an enhanced cardiotoxicity as evidenced by reduced septal wall thickness, fractional shortening, and sarco-endoplasmic reticulum Ca^{2+} ATPase expression as well as increased left ventricular cavity dimensions, lipid peroxidation, and β -myosin heavy-chain expression. This exacerbated cardiotoxicity was not observed in WD-LF + DOX. Switching to a low-fat diet 1 week prior to, during, and following DOX treatment attenuated the exacerbated

cardiotoxicity observed in the previously Western diet-fed rats.

Isherwood, Robert S., Richael Barger-Anderson, and Matthew J. Erickson (Department of Special Education)

- (2013) "Examining co-teaching through a sociotechnical systems lens," *Journal of Special Education Apprenticeship*, 2(2).
- (2013) "Concussion management for principals," *The Pennsylvania Administrator*, 17 (3), 29-31.

Jackson, Dallas J. (Department of Physical and Health Education), French, R., Senne, T. A., & Nichols, D. (2013) "Influence of responsibility-based physical activity within a secured juvenile correctional facility," *Journal of Knowledge and Best Practices in Juvenile Justice and Psychology*, 7(1), 1-10.

Jensen, Brock T. (Department of Exercise and Rehabilitative Sciences), David S. Hydock, Chia-Ying Lien, Carole M. Schneider, Reid Hayward (2013) "Exercise mitigates doxorubicin accumulation and preserves cardiac function in the rat heart," *Journal of Cardiovascular Pharmacology*, 62(3), 263-269.

Abstract: Doxorubicin (DOX) is an effective antineoplastic agent with well-characterized cardiotoxic effects. Although exercise has been shown to protect against DOX cardiotoxicity, a clear and concise mechanism to explain its cardioprotective effects is lacking. The purpose of this study was to determine if exercise training reduces cardiac DOX accumulation, thereby providing a possible mechanism to explain the cardioprotective effects of exercise against DOX toxicity. Sprague-Dawley rats were randomly assigned to 1 of 3 primary experimental groups: sedentary ($n = 77$), wheel running ($n = 65$), or treadmill ($n = 65$). Animals in wheel running and treadmill groups completed 10 weeks of exercise before DOX treatment. DOX was administered 24 hours after the last training session as a bolus intraperitoneal injection at 10 mg/kg. Subgroups of rats from each primary group were killed at 1, 3, 5, 7, and 9 days after DOX exposure to assess cardiac function and DOX accumulation. Ten weeks of exercise preconditioning reduced myocardial DOX accumulation, and this reduction in accumulation was associated with preserved cardiac function. These data suggest that the cardioprotective effects of exercise against DOX-induced injury may be due, in part,

to a reduction in myocardial DOX accumulation.

Katsafanas, Jodi (Department of Special Education)

(2014) "Pathways to Developing interculturally aware teachers," *The Field Journal*, Spring 2014.

Abstract: The need to graduate well-prepared teachers to staff our culturally diverse and globally connected classrooms is a significant concern to all U.S. teacher education programs. Three pathways are presented for supporting intercultural field experiences that involve modeling, introducing knowledge and skills, and using on-going reflection activities. These activities, coupled with field experiences either internationally or in U.S. cultural minority communities, can help develop interculturally aware teachers.

Kemeny, Elizabeth and Robert Arnhold (Department of Physical & Health Education) (2012) "I Can Do It, You Can Do It: collaborative practices for enhancing physical activity," *Therapeutic Recreation Journal*, 46(4), 268-283.

Kemeny, Elizabeth, Robert Arnhold (Department of Physical & Health Education), and S. Herold (2012) "I Can Do It, You Can Do It: a health promotion mentoring model for youth with disabilities," *Palaesta*, 26(1), 15-19.

Kenyon, Samuel and **Youngyol Yim Schanz (Department of Criminology and Criminal Justice)** (2014) "Sex trafficking: examining links to prostitution and the routine activity theory," *International Journal of Criminology & Sociology*, 3, 61-76.

Kuehn, Sarah and Rebecca Schnupp (Department of Criminology and Criminal Justice) (2013) "Butler county drug treatment court process evaluation," Submitted to Butler, Pennsylvania Court of Common Pleas.

Lange, Werner (Department of Modern Languages and Cultures)

- (2013) "Papa Obama," *OpEdNews*, Op Ed page, 2/22/2013.
- (2013) *Amish under Siege in America*, Lambert Academic Publishing, Saarbrücken, Germany, June 2013.

- (2013) *A Voice in the Wilderness: W.E.B. DuBois on Peace*, Lambert Academic Publishing, Saarbrücken, Germany, August 2013.
- (2013) "On the Passing of W.E.B. DuBois, and the torch, 50 years ago," Op-Ed article in *The Plain Dealer*, August 25, 2013.

Larson, Stephen (Department of Computer Science)

- (2013) "System Analysis and the Design of a Web-Centric Information System," *CUR Quarterly on the Web*, winter 2013, 34(2).
- (2014) "Analysis of a second hand Google Mini search appliance," *Journal of Digital Forensic Science and Law*, 8(4).
- (2014) "The Gene Levi (Teaching Tip)," *Gene*, 536 (2014), 223, DOI: 10.1016/j.gene.2013.11.093.

Larson, Stephen (Department of Computer Science) and Yamamoto, Junko (Department of Secondary Education) (2013) "Flipping the college spreadsheet skills classroom: initial empirical results," *Journal of Emerging Trends in Computing and Information Sciences*, 4(10), 751-758.

Leight, Joanne (Department of Physical & Health Education Department) (2014) *Technology for Physical Education Teacher Education: Student Handbook of Technology Skills Instructions & Assessments* (2nd Edition), CreateSpace Publishing. ISBN-10: 1494895765.

Levy, Alan H. (Department of History)

- (2013) *The Political Life of Bella Abzug, 1920-1976: Political Passions, Women's Rights, and Congressional Battles*, Rowman and Littlefield, Lexington Books.
- (2014) *The Political Life of Bella Abzug, 1976-1998: Electoral Failures and the Vagaries of Identity Politics*, Rowman and Littlefield, Lexington Books.

Lipinski, John, Donald L. Lester, and **Jeananne Nicholls (School of Business)** (2013) "Promoting Social Entrepreneurship: Harnessing Experiential Learning With Technology Transfer To Create Knowledge Based Opportunities," *Journal of Applied Business Research*, 29(2), 597-606.

Lynch, Sararose D., **Jeremy M. Lynch (Department of Special Education)**, and J. Bolyard (2013) "I-THINK I can problem solve," *Mathematics Teaching in the Middle School*, 19(1), 10-14.

Mangino, Matthew T. and **David R. Champion (Department of Criminology and Criminal Justice)** (2013) "Prosecutorial discretion and the death penalty: An Integral perspective," *International Journal of Criminology and Sociology*, 426-437, doi: <http://dx.doi.org/10.6000/1929-4409.2013.02.39>

Marchand, Richard J. (Department of Mathematics) and Timothy J. McDevitt (2013) "Spectral Behavior of Elastic Beam Models with Monotone and Non-Monotone Feedback Boundary Conditions," *Palestine Journal of Mathematics*, 2(2), 243-264.

Morrice, Rebecca, Gordon Phetteplace, David Skeeel, Laura Smiley, Colleen Reilly (Department of Theatre) and **Deborah Cohen (Department of Modern Languages and Cultures)** (2012) co-wrote an introduction to theatre textbook, *Dramatic Acts: A Guidebook to Making Meaning in the Theatre*, eBook (2012), paperback (2013), Kendall Hunt Publisher.

Nickerson, C. and **Thurkettle, M.A. (Department of Nursing)** (2013) "Cognitive maturity and readiness for evidence-based nursing practice," *Journal of Nursing Education*, 52(1), 17-23. DOI:10.3928/01484834.

Nicholls, Jeananne (School of Business), Joseph F. Hair, Jr, Charles B. Ragland, and **Kurt Schimmel (School of Business)** (2013) "Integrating Ethics, Sustainability, and Corporate Social Responsibility into the Undergraduate/Graduate Business School Marketing Curriculum," *Journal of Marketing Education*, 35(2), 129-140.

Nichols, Randall and Joanne Leight (Department of Physical & Health Education) (2013) "Teaching and preparing physical education teachers to use technology," in S. Sanders & L. Witherspoon (eds), *Contemporary uses of technology in K-12 physical education: Policy, practice and advocacy*, Charlotte, NC: Information Age Publishing, Inc.

Paradis, Lia (Department of History) (2013, January) Review of Bill Schwarz: *Memories of Empire*, Vol. 1: *The White Man's World* (Oxford University Press, 2011), *Journal of British Studies*, 52(1), 276-278.

Peguerro, Anthony and **Xin Jiang (Department of Criminology and Criminal Justice)** (2014 Forthcoming) "Social Control across Immigrant Generations: Adolescent Violence at School and Examining the Immigrant Paradox," *Journal of Criminal Justice*.

Rehorek, Susan (Department of Biology), AE. Grand-Pierre, JR. Cummings, B. Jewell, J. Constantine (Department of Biology, majors) and WJ. Hillenius (2013) "A re-examination and re-evaluation of salamander orbital glands," *The Anatomical Record*, 296, 1789-1796.

Schanz, Young (Department of Criminology and Criminal Justice)

- (2012) "Does race really matter?: career goals, perceptions of criminal justice practitioners and competence among criminal justice undergraduates," *Journal of Arts and Humanities*, 1(3), 160-170.
- (2013) "Criminology/Criminal Justice (C& CJ) programs in higher education in the U.S.," *International Journal of Criminal Justice Sciences*, 8(2), 105-119.

Solano, Roger and Sunita Mondal (School of Business) (2012) "Using Social Networks and Internet Based Audience Response Systems in the classroom," *Pennsylvania Economic Review*, (21)1.

Sparrow, Tom (Department of Philosophy) (2013) *Levinas Unhinged*, Zero Books.

Sparrow, Tom (Department of Philosophy) and Adam Hutchinson (eds) (2013) *A History of Habit: From Aristotle to Bourdieu*, Lexington Books.

Tompkins, Donald, **Diane D. Galbraith (School of Business)**, and Burcak Bas (2012) "Global Leadership Styles: A Comparative Analysis of American and Turkish University Students," *International Journal of Humanities and Social Sciences*, 2(2), 177-187.

Vallin, Robert (Department of Mathematics)

- (2013) "Advanced calculus with generalizations – first semester, notes for the first semester," *Journal of Inquiry-Based Learning*, 34.
- (2013) *Elements of Cantor Sets – with Applications*, John Wiley & Sons, ISBN-13: 9781118405710, First Edition, 2013.

Wang, Jianyu, **Wenhao Liu, and Wei Bian (Department of Physical and Health and Education)** (2013) "Relationship between perceived and actual motor competence among college students," *Perceptual & Motor Skills*, 116(1), 272-279.

Abstract: The relationship between perceived and actual motor competence was examined among college students. Participants were 114 college students (55 men, 59 women; M age = 22.3 yr., SD = 3.9). All participants completed a short survey on perception of motor competence in basketball and took a Control Basketball Dribble Test to assess their actual motor skill. Perceived motor competence in basketball was significantly related to basketball dribbling performance. Given the positive relationship between actual motor competence and perceived competence, enhancing an individual's actual motor competence may contribute to their perceived competence, which may improve an individual's physical activity participation.

Zeiger, Benjamin (Department of Philosophy, major)

(2013) "God and forgiveness: A critique," *Janua Sophia* (XV), 13-22.

Zhou, Hongbo (Department of Computer Science) (editor)

(2012) *Wireless Ad-Hoc Networks*, InTech.

RECENT PRESENTATIONS/ PERFORMANCES/EXHIBITIONS

Ambrosio, Nora (Department of Dance)

- (2013) choreographed and presented "Past-Present-Future Tense (I walked, I walk, I shall walk)," a solo dance performed to musical accompaniment by **Colleen Gray (soprano, Department of Music)** and **Nanette Kaplan Solomon (pianist, Department of Music)**.
- (2013) choreographed and presented "Rock-Paper-Scissors-Shoot," a duet performed by dance alumni Josh Pugliese and current student Sonja Gable.
- (2013) choreographed and presented "Without You," a group dance performed by senior dance majors for the senior dance concert, Our Fifteen Minutes, as part of the Kaleidoscope Arts Festival.

Amodei, Michelle (Department of Elementary/Early Childhood Education)

- (2013) presented "Story Cubes: 10 Strategies for Creatively Developing and Supporting Language" Three Rivers TESOL Fall Conference, Pittsburgh, PA, October, 2013.
- (2013) "Implementing Action Research with Undergraduate Education Majors," presented at SRU Professional Development Day, Slippery Rock, PA, October, 2013.
- (2013) "Paths to Consensus: Acculturating Preschool Teachers to the Components of Classroom Quality," presented at National Institute for Early Childhood Professional Development, San Francisco, CA, June, 2013.
- (2013) "Managing Stress and Taking Care of the "Crazy Business" in Your Life," presented at NWPennAEYC Spring Conference, Edinboro, PA, May, 2013.
- (2013) "Violence in our World: Helping Children and Families Cope," Keynote address at Northwest Regional Early Childhood Professional Development, Day, Erie, PA, April, 2013.
- (2013) "Responding to Trends: Preparing Teacher Education Candidates for Work with Young ELL Students," presented at Association for Childhood

Education International - Institute for, Global Diplomacy, Washington, D.C., April, 2013.

Anderson, Melanie (School of Business)

- (2013) presented “Who is the Management Accountant” at the Institute of Management Accountants - IMA’s 94th Annual Conference and Exposition in New Orleans, LA in June, 2013.
- (2013) presented “Social Media and the Management Accountant” at the Northeastern Association of Business, Economics and Technology (NABET) 36th Annual Meeting in State College, PA, in October, 2013.

Anning, Jonathan H., **Brock T. Jensen (Department of Exercise and Rehabilitative Sciences)**, and Christopher R. Lefever (2013) “Selecting a resistance assessment method and an optimal load using regression models,” Poster presentation at National Strength and Conditioning Association National Conference, Las Vegas, NV, 2013.

Arnett, Daniel Lee (Department of Physics, major) and Krishna Mukherjee (Department of Physics) (2013) “To the Edge of the Universe,” art exhibition at Student Symposium for Research, Scholarship, and Creative Achievement, April 9, 2013.

Arnett, Daniel Lee, Shane A Chesnutt, Christopher J Solomon (Department of Computer Science, majors) and Sam Thangiah (Department of Computer Science) (2013) “AR. Drone Network,” presented at SRU Spring Symposium, Slippery Rock, PA, April 9, 2013.

Arnhold, Pam, Robert Arnhold, Wendy Fagan, Dallas J. Jackson, and Kelly Sheehan (Department of Physical and Health Education) (2013) presented “High impact practices implementing evidence-based practices for adapted physical activity students in community-based settings” at the Slippery Rock University Professional Development Day in Slippery Rock, PA in February, 2013.

Arnhold, Pam, Robert Arnhold, Wendy Fagan, and Dallas J. Jackson (Department of Physical and Health Education) (2014) presented an ‘in-service’ entitled “Adapted physical education” at Central Intermediate Unite in Decatur, PA in January 13, 2014.

Arnhold, Robert (Department of Physical and Health Education), D. Salkin, and B. Fogel (2013) Adapted Physical Education Town Hall Meeting, Pennsylvania State Association for Health, Physical Education, Recreation, and Dance Conference. Valley Forge, PA, November 24, 2013.

Arnhold, Robert (Department of Physical and Health Education), L. Tripoli, E. Greczek (2013) “PE Extracurricular Athletics, and Children and Youth with Disabilities: How to Meet IDEA and Section 504 Requirements,” presented at US Department of Education – IDEA Leadership Conference, Washington, DC, July 29, 2013.

Arnhold, Robert (Department of Physical and Health Education), R. Davis, G. Tymeson, D. Poretta (2013) “Past-presidents Panel Discussion,” presented at National Consortium for Physical Education for Individuals with Disabilities, Herndon, VA, July 13, 2013.

Arnhold, Robert (Department of Physical and Health Education) (2013) “From the Andrews Sisters to Lady Gaga, Imagine That!: An Advocacy Lesson for APE Teachers,” Keynote address at State Adapted Physical education Conference, West Chester University, June 22, 2013.

Arnhold, Robert (Department of Physical and Health Education) and B. Martin (2012) “Federal and State Mandates for Adapted Physical Education Services,” presented at Montgomery County Intermediate Unit – Teleconference, December 10, 2012.

Arnhold, Robert (Department of Physical and Health Education) and R. Lytle (2012) “Increasing our Impact: Promising Trends in Training and Practice of Related-Services and Specialized Adapted Physical Education Personnel,” presented at 2012 OSEP Project Director’s Conference, July 22-25, 2012.

Arnhold, Robert (Department of Physical and Health Education), G. Tymeson, R. Davis, L. Kelly, and J. Winnick (2012) “Past-President’s Panel on Reauthorization of IDEA,” presented at National Consortium for Physical Education and Recreation for Individuals with Disabilities, July 21, 2012.

Arnhold, Robert, Pam Arnhold, Dallas Jackson (Department of Physical and Health Education), and E. Kemeny (2012) "Survival in higher education – Developing Independence for your Programs," presented at American Alliance for Health, Physical Education, Recreation, and Dance national conference, Boston, MA, March 15-18, 2012.

Barger, Zane (Department of Geography, Geology, and the Environment, Honors Students) and Jessica Sears (Department of Secondary Education, English and Honors Students) (2013) "Fundraising 101: The First Year Experiences of a Student-Run Fundraising Committee" presented at the National Collegiate Honors Council Annual Conference in New Orleans, LA, on November 9, 2013.

Barger, Zane (Department of Geography, Geology, and the Environment, Honors Students) (2013) presented "The Plight of the Honeybee: Colony Collapse Disorder in the Appalachian Region" at the National Collegiate Honors Council Annual Conference in New Orleans, LA, on November 8, 2013.

Barger-Anderson, Richael A., Robert S. Isherwood, and Matthew J. Erickson (Department of Special Education) presented "Partnerships for Success: Parent Workshops in Collaboration with the Karns City School District, Community Members, and Slippery Rock University" at the Midwestern Early Childhood Institute in Grove City, PA in March 2014.

Barnes, Carol and Michelle Millen (Department of Biology, honors students) (2013) presented "How House Highlights the Controversy Behind Bioethical Principles" at the National Collegiate Honors Council Annual Conference in New Orleans, LA on November 8, 2013.

Barringer, Megan, Elaina Mitchell (Department of Chemistry, majors), and Paul Birchbichler (Department of Chemistry) (2013) "Differential Adherence Response in Normal and Virus-Transformed Human Fibroblast Cells," presented at Duquesne University Annual Undergraduate Symposium, April 20, 2013.

Barta-Smith, Nancy (Department of English) (2013) presented "Coming Full Circle: The Return of the Repressed in the Wide Arc of a Professor's Career" at EAPSU Conference for Faculty and Graduate Students (conference

theme: "Under Siege: English Studies, Pedagogy, and the Profession), West Chester University, October 17-18, 2013.

The conference reflects on the evolution of theoretical lenses through which English faculty interpret literature, with particular reference to the growth in the field of creative writing as a subfield and returning attention to aesthetic features of a text in addition to socio-political perspectives such as Marxism, Psychoanalysis, Structuralism, Poststructuralism, and Feminism. It asserts the continuing importance of humanistic disciplines and their focus on imagination and affect in the face of a rhetoric dismissing the humanities, which is pervasive in the media and evident in corporate calls for focus on skills rather than the education of whole persons who are always not only workers but citizens and members of families and communities.

*Abstract: In this paper I will trace my critical proclivities from their inception in undergraduate survey courses as a college sophomore through graduate school and my teaching of literary and cultural theory at Slippery Rock University to my current research interest in the life and work of the poet, essayist, and storyteller Wendell Berry. My analysis will doubtlessly be filtered through the latter's critique of the university, of specialization, and the corporate world, but also through my own particular trajectory through professional life, bookended as it is by an embrace of creative writers—especially writers who write in multiple genres, which offers the possibility of interpreting through an other-than-highly theorized lens. The history and range of methods used and genres produced within the disciplines of literary and cultural studies is expansive. These genres span the history and development of academic genres of literary criticism from journalistic criticism to the range of criticism influenced by the expansion of interdisciplinary applications of theory to analysis of literary and cultural texts. Graff's *Professing English* traces much of this history and range as do NCTE's *Introduction to English Studies* and *The Norton Anthology of Theory and Criticism*. New forms of "distant" reading, through data mining and related collaboration with the computer sciences and intersections of literary and cultural analysis with the cognitive neurosciences and other scientific fields such as evolutionary psychology and environmental studies have not altered, however, the persistence of formal analysis in the subfields of criticism and creative writing, the latter one of*

the most vigorous of the subfields at Slippery Rock. Perhaps it is simply “coming home” to close reading that drives my recent attentiveness to formal aspects of literary reading such as intertextuality in its older, less Derridean implications but I can’t help thinking that it is due as well to the comfort provided by reading writers whose words are more easily related to a less abstractly experienced world than high theory allowed.

Barta-Smith, Nancy (Department of English) (2013) presented “A River Runs through What? Wendell Berry Has Never Been Postnatural” at The 27th Annual Meeting of The Society for Literature, Science, and the Arts (SLSA), University of Notre Dame, September 2013.

Conference theme: Since Darwin's discoveries, we have tended to think of evolution in terms of complexity and change, emphasizing it as a process and seeing our interventions as the creation of a "postnatural" condition in which the existence of places beyond human intervention have disappeared. Certainly climate change is one of the reasons for this argument. Once the atmosphere has felt the human hand, it is hard to think of anything as "natural" in the sense of remaining as it was at its birth. For the environmental writer Wendell Berry, however, it is immensely important to be attentive to particular places—where we live and work. Nature is place. Rather than focusing on their evolution as we intervene in natural processes, he asks us to pay attention to them, constantly working to replenish and restore them to a fertility consistent with their condition before we wasted and destroyed them. In this sense, the term "postnatural" is for him a kind of nonsensical term. All we ever have is nature. We are part of its fiber and, because of human consciousness and attention, it is we who have the obligation to see that the fertility of the natural world is maintained and increased rather than used, wasted, and transformed into a dead planet.

*Abstract: We think of time as a river and life as a journey. Wendell Berry himself lives and writes along the Kentucky River, seeming to record the decline of small rural communities. Yet, quoting from E.M. Forster's *Howards End* (1910) in his 2012 Jefferson Lecture in the humanities, Berry again casts his lot with the stickers and settlers:*

for ever,” [Margaret] said. “This craze for motion has only set in during the last hundred years. It may be followed by a civilization that won’t be a movement, because it will rest upon the earth.

*Returning to his childhood home to write its life, Berry has dedicated much of his writing to making present the river town of Port William in a series of novels and short stories and written passionately in his essays about what is at stake in their loss: understanding of the sustainable practices of a diverse agriculture based in perennial grasses and animal husbandry that will be necessary to the continuation of life on the planet; recognition of our relation to land and community; acceptance of the limitations of propriety and scale, and especially the demands of attention and concern, that go along with seeing ourselves among the creatures of the earth and part of the wheel of life, maturation, death, and decay, that ensures renewed fertility. In *A Place on Earth* Mat Felter tells his son Virgil when he plows too far over the brow of a hill “ ‘Be sorry, but don’t quit. What’s asked of you now is to see what you’ve done, and learn better.’ . . . [T]he most dangerous kind of irresponsibility is to think of your doings as temporary. What you do on the earth, the earth makes permanent” (180). This paper will examine this attention to permanence in the face of time and mortality in Berry’s work, with particular reference to *A Place on Earth* and *Hannah Coulter*. We might say we are tempted to see the world ever passing and ourselves constantly lunging forward, leaving where we are behind as if surpassed. The term “postnatural” too suffers this fault. Hence, when confronted with the prospect of global climate change, melting, alpine ice in retreat, oceans rising, island nations disappearing, species vectors shifting, tropical diseases moving north, we have been tempted to see ourselves as having so intervened in nature as to question the category itself and to call ourselves both “post human” and “postnatural.” However, if Berry ponders the swiftness and power of the river, he also ponders the “voluminousness of its power (98), how a boy’s life could “count for nothing” struggling against it (99), how ones’ “feet and hands and faces” soon “stiffen” in the wind as if our natural element lies elsewhere than in rivers. The remedy to the effects of our exploitation of the planet, for Berry, lie in conceiving nature perceptually and imaginatively not metaphysically—in the role of affection and care in restoring our home.*

"Because a thing is going strong now, it need not go strong

Bassett, Tyler (Department of Computer Science, major) and Paul Mullins (Department of Computer Science) (2013) "Agreement in a Click", presented at PASSHE Undergraduate Research in STEM Conference, November 17, 2013.

Bassett, Tyler (Department of Computer Science, major), Deborah Whitfield, and David Dailey (Department of Computer Science) (2013) "Force Direction and Application in Website Development," PASSHE Undergraduate Research in STEM Conference, Slippery Rock, PA, November 16, 2013.

Beckwith, Mark (Department of Mathematics, major) (2012) "A Twelve Coin Problem: Two Counterfeit Coins," presented at Conference on Undergraduate Research in Mathematics (Penn State University), November 4, 2012.

Bichler, James and Krista Scott (Department of Mathematics, majors) (2011) "We are Not Trying to Reinvent the Wheel; We are Just Trying to Beat it," presented at Allegheny Mountain section meeting of the Mathematics Association of America (Clarion University, Clarion, PA), April 8, 2011.

Billek-Sawhney, Barbara, Nancy Shipe, Kelly Lindenberg (School of Physical Therapy), and A Wagner (2014) "Reliability and Validity of a Physical Therapy Exercise Compliance Questionnaire," presented at the American Physical Therapy Association Combined Sections Meeting (CSM), Las Vegas, NV. February 4, 2014.

Abstract: Home exercise program (HEP) compliance is the degree to which a patient follows a prescribed regimen established by a physical therapist (PT). Short-term compliance is estimated to be 64%. Failure to comply with a PT's instructions may result in delayed attainment of rehabilitation goals and result in more treatment. The objective of this project was to determine the reliability and validity of a compliance questionnaire developed to gain greater insight into HEP exercise prescription and factors that impact compliance.

Methods: The 19-item HEP compliance questionnaire was based on a literature review, critiques of other measurement tools, input from clinicians and patients, and reviews by content experts. Numerous factors that have been identified

to impact compliance are addressed in the questionnaire, including time, pain, recall, the patient-PT relationship, complexity and number of exercises, perceived health, perceived outcome expectations, income and educational levels, prior activity level, and self-efficacy. Two separate cohorts of patient volunteers were recruited via convenience sampling. The first cohort was asked to complete the questionnaire at the beginning and then again at the end of an already scheduled therapy visit. The second cohort was asked to complete the questionnaire one time. The PT supervising each patient's care was also asked to complete the questionnaire based on the patient's current prescribed HEP. Interclass correlation coefficients (ICC) were used to establish the test-retest reliability of the questionnaire based on the first cohorts' responses. Spearman's Rank Correlation Coefficient was used to establish the concurrent validity by correlating the second cohorts' responses with those of the PT that was overseeing their exercise prescription.

Results: Test-retest reliability for the questionnaire was found to be high with $ICC(2,1) > .895$ for 15 items and $ICC(2,1) > .812$ for 3 items. Correlations between the patients' and the PTs' responses were found to be good ($r > .752$) for items related to the patient's health status and purpose for attending PT. Items related to the number of prescribed exercises and the frequency of the HEP were found to have a fair to moderate degree of correlation ($.297 < r < .648$).

Conclusion: The HEP compliance questionnaire is a reliable measure of a patient's interpretation and opinion regarding a PT prescribed exercise program. The instrument was found to be valid in demonstrating concurrent agreement with items related to the patient's health and the purpose of PT. However, the results shed light onto areas where patients and PTs view HEP prescription differently, specifically related to number and frequency of exercises. Further research into this matter is warranted.

Clinical relevance: The HEP compliance questionnaire can be utilized to develop a better understanding of home exercise prescription and the factors that determine patient compliance to such programs.

Birchfield, Heather, Rebecca Schnupp (Department of Criminology and Criminal Justice), Ashley Swezey, and

Sarah Kuehn (Department of Criminology and Criminal Justice)

- (2013) "What's inside the black box? An examination of a drug treatment court in western Pennsylvania." Paper presented at the 37th Annual Meeting of the Northeastern Association of Criminal Justice Sciences (NEACJS), Portsmouth, RI.
- (2013) "Participants' experience of a drug treatment court in western Pennsylvania." Paper presented at the Annual Conference of Pennsylvania Association of Criminal Justice Educators (PACJE), Schuylkill, PA.

Bires, Benjamin, Maria Camera, Hannah Scrima (Department of Art, majors), Katherine Mickle (Department of Art), and Patrick Burkhart (Department of Geology, Geography & the Environment) (2014)

"Artistic Renditions of the Badlands: Multi-Media Explorations of a Rugged Desert Landscape," presented at three symposia: The Ninth Annual Research Symposium, Tom Ridge Environmental Center, Erie, November 2013; the Student Symposium on the Environment, Westminster College, New Wilmington, December 2013; and the SRU Symposium for Student Research, Scholarship and Creative Achievement, SRU, April 2014.

Bonfanti, Garrett, Susie Jansto, Corey Dolbashian (Department of Physics, majors), and Krishna Mukherjee (Department of Physics) (2011) "New Data about the Sun Comes to Light," poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Botzer, Nicholas (Department of Computer Science, major), Deborah Whitfield, and David Dailey (Department of Computer Science) (2013) "Navigating the web with graph structures," PASSHE UR in STEM Conference, Slippery Rock, PA, November 17, 2013.

Botzer, Nicholas, Zachary Petrusch, Tyler Bassett (Department of Computer Science, majors), Deborah Whitfield, and David Dailey (Department of Computer Science) (2013) "Graph Gravity," Poster presentation at The Twenty-ninth Annual Consortium for Computing Sciences in Colleges Eastern Conference, held at The College of New Jersey in Ewing, NJ, November 1-2, 2013.

Brewer, Hannah (Department of Physical and Health Education) (February, 2014) "Energy Drinks: Understudied, Overused, and Potentially Dangerous," presented at the Eastern District Association of the American Alliance for Health, Physical Education, Recreation, and Dance's Annual Convention, Newport, RI.

Brendel, Erica, Morgan Arentz, Brittany Venetti, Ashley Robson, Brendan Batchelor, Elise Augustine, and Stephanie Topper accompanied by **Melissa Nard (Student Counseling Center)** Presented "Don't Get Scrambled Up in Stress" at National Mental Health on Campus conference, Creative Programming Expo, in Washington, D.C., November 15-17, 2013.

Brown, George (Department of Political Science) Patrick Baker (Department of Political Science, major) (2014) "China, ASEAN and Maritime Territorial Disputes in the South China Seas," Paper presentation at the Asian Studies Development Program National Conference in Houston, Texas, March 13-15.

Brush, Lindsey and Jennifer Kelly (Department of Mathematics, majors) (2011) "Baccarat Gambling and Multisets," presented at Allegheny Mountain section meeting of the Mathematics Association of America (Clarion University, Clarion, PA), April 8, 2011.

Burkhart, Patrick (Department of Geology, Geography & the Environment), James Stevens (Department of Geology, Geography & the Environment, majors), Luke Hittner (Hudson-Meng Education & Research Center, Crawford, NB), Katherine Mickle (Department of Art), Benjamin Bires (Department of Art, majors), Paul Baldauf (Nova Southeastern University, Fort Lauderdale, FL), Eric Householder (South Florida Water Management District, West Palm Beach, FL), Derick Fiedler and Jason Crooks (both SRU GG&E Students) (2013) "Evolution of Pediments Adjacent to the White River Group in Nebraska and South Dakota, Including Potential Influence of the Medieval Climate Anomaly," presented at Geological Society of America, National meeting, Denver, CO, October 2013.

Camp, Cassandra and Leigh Ann Lamagna (Department of Chemistry, majors) (2011) "Quantitation of Kidney Biomarkers in Diabetic Rats," poster presentation at

Undergraduate Research Conference at the Capitol, Harrisburg, PA, April 26, 2011.

Cercone, Nicholas G (Department of Physics, honors students) and Krishna Mukherjee (Department of Physics) (2013) “Solar Acoustic Waves,” poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 9, 2013.

Cercone, Nicholas G (Department of Physics, honors students), Kelly Smith (Department of Computer Science, Honors students), and Matthew Wozniak (Department of Physics, honors students) (2013) presented “Perfecting the Brownie Pan Using Statistical Optimization Techniques” at the National Collegiate Honors Council Annual Conference in New Orleans, LA on November 8, 2013.

Champion, David. R. (Department of Criminology and Criminal Justice)

- (2013) presented “The pathology of the collective: Integral Theory and criminality among the many” at the Northeastern Association of Criminal Justice Sciences (NEACJS) Annual Meeting in Portsmouth, RI in June, 2013.
- (2014) presented “The narrative of crime: Explorations from the Quadrants” (Featured Panel) at the Academy of Criminal Justice Sciences (ACJS) Annual Meeting in Philadelphia, PA in February, 2014.

Champion, David (Department of Criminology and Criminal Justice) and M. Mangino (2013) presented “Prosecutorial decision-making in capital cases: An Integral perspective” at the Pennsylvania Association of Criminal Justice Educators (PACJE) Annual Meeting in Schuylkill, PA in April, 2013.

Christoff, Allison, Hannah Malloy, Timi Martin (Department of Psychology, majors), and Christopher Niebauer (Department of Psychology) (2013) “Age, handedness, and Gender: What makes a Rebel?” Poster presentation at Eastern Psychology Conference, March 2, 2013.

Clark, Stephanie, Courtney Nickle, Taylor Phillips (Department of Physics, majors), and Krishna Mukherjee (Department of Physics) (2011) “The Planck

Mission: Looking into the Past to Learn about Our Future,” poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Colvin, Andrew (Department of Philosophy)

- (2012) “Yin Yang and the Ethics of Gender Essentialism,” 47th International Conference of the Society for Asian and Comparative Philosophy, The University of Southern Illinois, Carbondale, October 12, 2012.
- (2013) “Philosophy as Therapy and Alternative Conceptions of Philosophy in China,” 18th International Conference of the International Society for Chinese Philosophy, The State University of New York, Buffalo, July 23, 2013.

Colvin, Andrew (Department of Philosophy) and Patrick J. Connors (Department of Philosophy, major) (2013) presented “Extensionless Blame: Cartesian Free Will and Blameworthiness” at the 26th Annual Statewide PASSHE Interdisciplinary Association for Philosophy and Religious Studies Conference.

Cooklin, Katherine (Department of Philosophy) (2014) presented “Theorizing Dissent: Women’s Resistance, Food Security Policies, and Food Sovereignty Claims” at the conference Dissent! Histories and Meanings of Opposition from 1968 to the Present held at the University of Aalborg, Denmark in January, 2014.

Corle, Ethan (Department of Physics, major) and Manuel Valera (Department of Physics) (2011) “Molecular Dynamics of Colloidal Binary Mixtures in an Electric Field,” poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Corle, Ethan (Department of Physics, major), Manuel Valera, and Athula Heart (Department of Physics) (2011) “Molecular Dynamics of Colloidal Binary Mixtures in an Electric Field,” poster presentation American Physical Society (Dallas, TX), April 2011.

Cortez, Joseph (Department of Physics, major) and Athula Herat (Department of Physics) (2013) “Application of Grassmann Algebra to Physical phenomena,” presented at Student Symposium for Research, Scholarship, and Creative Achievement, April 9, 2013.

Corvino, Samantha (Department of Mathematics, major)

(2011) "Using Schwarz Triangles to Create Branched Packings on the Spher," presented at joint American Mathematics Society and Mathematical Association of America Meetings, January 2011.

Covey, William (Department of English)

(2014) presented "1974-1984: Watching the Beatles Become Nostalgia" at It Was 50 Years Ago Today: An International Beatles Celebration Conference at Penn State Altoona in Altoona, PA on February 7-9, 2014.

Dafoe, Nicole (Department of Biology)

(2013) presented "Induction of Endoreduplication in Response to Stem Wounding" at the Plant Biologists Annual Meeting in Providence, Rhode Island, July 2013

Dailey, David and Deborah Whitfield (Department of Computer Science)

(2014) "Design and Topology of Websites for Improved Navigation," Proceedings of the International Design Principles and Practices Conference, Vancouver, Canada, January, 2014.

DiMarco, Danette (Department of English)

- (2013) "Return-Design: Boosting Student Engagement Using D2L to Apply Online Instructional Strategies to Face-to-Face Courses" FUSION, Boston, Summer 2013.
- (2013) "Connecting the Dots, or Why I Still Believe in English Even as the Climate Changes" English Association of Pennsylvania State Universities, EAPSU, West Chester, Fall 2013.

Dodson, Tesla Marie, Allyson Hope Webb (Department of Physics, majors), and Krishna Mukherjee (Department of Physics)

(2013) "New Revelations in the Formation of the Milky Way," poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 9, 2013.

Doi, Hallie, Kristen Leya (Department of Mathematics, majors)

(2011) "Generalizations of the Birthday Problem," presented at Allegheny Mountain section meeting of the Mathematics Association of America (Clarion University, Clarion, PA), April 8, 2011.

Dolbashian, Corey, Susie Jansto, Garrett Bonfanti

(Department of Physics, majors), and Krishna

Mukherjee (Department of Physics) (2011) "New Data about the Sun Comes to Light," poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Dover, Cheri (Department of Chemistry, major)

- (2011) "Analysis of a Simulated in Vivo Environment for a Selective Model of Apoptosis," abstract, Duquesne University Annual Undergraduate Symposium, April 2011.
- (2011) "Analysis of a Simulated in Vivo Environment for a Selective Induction of Apoptosis," abstract at Experimental Biology Conference (Washington, DC), April 2011.
- (2011) "Analysis of the Interaction of Human Erythroleukemia Cells Between Human Lung Fibroblasts and Fibronectin," 14th Annual Undergraduate Research Symposium in the Chemical and Biological Sciences, (Baltimore, MD), October 2011.

Dover, Cheri (Department of Physics, major) and

Krishna Mukherjee (Department of Physics) (2011) "The Electromagnetic effects of TMS on the Brain," poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Duggan, Matthew (Department of Physics, major) and

Krishna Mukherjee (Department of Physics) (2011) "The Mysteries of Galactic Collisions," poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Dusi J, Kelly Lindenberg (Department of Physical

Therapy), E. Andreyo (2014) "Developing the Collaborative Relationship between PT and PTA Students through the Use of Technology and Shared Case-Study Experiences," presented at the American Physical Therapy Association Combined Sections Meeting (CSM), Las Vegas, NV. February 4, 2014.

Abstract: The purposes of this study were to 1) assess the impact of a collaborative learning project using technology on students' knowledge of the professional roles of the PT and PTA; 2) assess the impact of the learning project on

students' perceptions of the preferred PT-PTA relationship; and 3) compare the effectiveness of a traditional classroom model verses the collaborative learning project on students' knowledge of the professional roles of the PT and PTA. We hypothesized that the project would enhance students' knowledge of the professional roles and foster an appreciation for the PT-PTA relationship aided by collaborative work and technology. Methods: 26 PT and 26 PTA students were paired and presented with patient vignettes. Groups collaborated to create and implement a physical therapy plan of care based on a mock patient scenario. The students were required to collaborate via written communication and video conferencing in order to document changes to the patient's care. 23 other PT students worked through the vignettes independently and received traditional classroom instruction on the roles and responsibilities of the PT and PTA. A pretest/posttest questionnaire was used to capture the students' knowledge of the appropriate roles of the PT and PTA. In addition, all participants were asked to complete an open-ended questionnaire and 8 PT and 9 PTA participants joined in summative focus group interviews. Paired and unpaired t-tests were used to quantify the results of the questionnaire. Qualitative methods were utilized to understand the students' perception of the project and knowledge of professional roles. Results: A significant difference existed between pretest and posttest questionnaire scores for PT and PTA students working collaboratively ($t=-2.447$, $p=0.018$). No significant difference existed between questionnaires scores for paired-PT students and independent-PT students ($t=1.260$, $p=0.214$). The qualitative material indicated that PT and PTA students perceived an improved level of understanding of the professional role of the PTA. Despite difficulties in using technology to communicate, participants suggested that this model be continued, noting an enhanced appreciation of the preferred PT-PTA relationship. Conclusion: The technology driven collaborative instructional model presented is effective in teaching students about the roles of the PT and PTA and provides an authentic learning opportunity to foster the development of the preferred PT-PTA relationship.

Eberhart, Kristin L., Steven D. Verba, Brock T. Jensen, and Jeffery S. Lynn (Department of Exercise and Rehabilitative Sciences)

- (2013) "The heart rate response and force production related to deer hunting-associated

activities," slide presentation at Mid-Atlantic Regional Chapter Meeting of American College of Sports Medicine, Harrisburg, PA, 2013.

- (2013) "The physiologic demands of deer hunting-associated activities." Poster Presentation, PASSHE Undergraduate Research Conference in Science, Technology, Engineering, and Mathematics, Slippery Rock, PA, November 2013.

Edmonds, Rex (Department of Mathematics, major)

- (2011) "Pythagorean Triples of the Form (T_n , S_n , P_n) where T_n , S_n , and P_n are Triangular, Square, and Pentagonal Numbers," presented at Allegheny Mountain section meeting of the Mathematics Association of America (Clarion University, Clarion, PA), April 8, 2011.
- (2012) "Pythagorean Triples of the Form (T_n , S_n , P_n) where T_n , S_n , and P_n are Triangular, Square, and Pentagonal Numbers," presented at Conference on Undergraduate Research in Mathematics (Penn State University), November 4, 2012.

Edwards, June (Department of Art)

- (2013) has shown artwork at the Associated Artists of Pittsburgh New Member Exhibit at the Cultural Trust 937 Gallery, Pittsburgh, PA.
- (2013) has been invited to show artwork at the Grove City College Area Artists Exhibit in Grove City, PA;
- (2013) shown a Woodblock print of East Liberty (with other artwork and historical artifacts) at "East Liberty Valley: A Retrospective" in Pittsburgh, PA.
- (2013) had her work in a juried exhibition at the 90th Annual Spring Show at the Erie Art Museum in Erie, PA.
- (2013) displayed her Sabbatical Exhibition "The Furnace Works" at the Martha Gault Art Gallery at Slippery Rock University in Slippery Rock, PA in 2013.
- (2013) June also assisted with the restoration and display of the original miniature neighborhood in the new corporate headquarters of The Fred Rogers Company in Pittsburgh, PA.
- (2014) displayed artwork at the International Group Show at the Ward-Nasse Gallery in New York, NY.

- (2014) took part in a juried, 2-person exhibit called “Art @rt 30” at the Westmoreland Museum of American Art in Greensburg, PA.
- (2014) the Annual Women’s Show at the Ward-Nasse Gallery in New York, NY.
- In addition, her artwork will be displayed at Show de Bola in São Paulo, Brazil during the World Cup Games.

Erickson, Matthew J., Richael A. Barger-Anderson, Robert S. Isherwood, and Dorothea Monfore (Department of Special Education) (2014) presented “Trusting Partnerships: Special Education and Family/School Collaboration Under IDEIA” at the National Council for Exceptional Children (CEC) Conference in Philadelphia, PA in April, 2014.

Erickson, Matthew J., Jeremy Lynch, and Robert S. Isherwood (Department of Special Education) (2014) presented “Engaging Students through Virtual Classrooms: The Use of Blackboard Collaborate in Online Education” at The Conference on Higher Education Pedagogy in Blacksburg, VA, February, 2014.

Estes, Daniel, Kourtney Pike, Nicole Crevar (Department of Physics, majors), and Krishna Mukherjee (Department of Physics) (2011) “Black Holes and Galactic Development,” poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Evans, Grace (Department of Mathematics, major) (2013) “The In's and Out's of Card Shuffling,” presented at MAA meeting at Indiana University of PA, Indiana, PA, March 5, 2013.

Falso, Paul G. (Department of Biology), C. A. Noble, T.B. Hayes (2014) presented “Corticosterone Treatment Alters Blood Cell Differentials and Function for Long-term Periods in Laboratory and Wild-caught Amphibian Models” at the Society of Integrative and Comparative Biology in Austin, TX, on January 3-7, 2014.

Falso, Paul G. (Department of Biology), S. Gallipeau, T. B. Hayes (2014) presented “Amphibians Stressed By Agricultural Land Use Have Altered Immunity and Increased

Parasitic Infections” at the Society of Integrative and Comparative Biology in Austin, TX, on January 3-7, 2014.

Figel, Jared T. (Department of Philosophy, major) (2013) presented “A Critical Response to Richard Swinburne” at the 26th Annual Statewide PASSHE Interdisciplinary Association for Philosophy and Religious Studies Conference.

Fox, K., B. Stovall, K. Mariacher, P. Pautler, A. Hedgepeth, C. Fengl, E. Massey, and **Kimberly Smith (Department of Exercise and Rehabilitative Sciences)** (2013) “Perceptions of body weight and contributing weight gain factors in British adults.” Poster presentation, Harrisburg, PA. November, 2013.

Franze, Andrew Earl (Department of Geography, Geology, and the Environment, major) and Michael Stapleton (Department of Geography, Geology, and the Environment) (2013) “Analysis of *Dreissena Bugensis* Shell Ca/Mg Ratios and Ecological Implications in lake Michigan,” presented at SRU Spring Symposium, April 9, 2013.

Garcia, Joseph (Department of Mathematics, major) (2012) “Application of PBPK Modeling to a Mixture of TCE and CCl₄,” poster presentation at joint American Mathematics Society and Mathematical Association of America Meetings, New Orleans, January 5, 2012.

Garcia, Joseph and Brian Sullivan (Department of Mathematics, majors) (2011) “A Perfect Bracket - The Impossible Dream,” presented at Allegheny Mountain section meeting of the Mathematics Association of America (Clarion University, Clarion, PA), April 8, 2011.

Geisler, Ethan Thomas (Department of Geography, Geology, and the Environment, major) and Patrick Burkhart (Department of Geography, Geology, and the Environment) (2013) “Assessing the Contribution of Periglacial meltwaters to Water Supply, High Central Andes, Argentina,” presented at SRU Spring Symposium, April 9, 2013.

Gibson, Noah M., Chia-Ying Lien, **Brock T. Jensen (Department of Exercise and Rehabilitative Sciences), Hydock, David S., and Hayward, Reid** (2013) “A rat model

of doxorubicin-induced late-onset cardiotoxicity,” Poster presentation at Experimental Biology, Boston, MA, 2013.

Goodrick, Amanda (Department of Mathematics, major)

- (2011) “Mathematics Magazine Problem 1851: A Generalization of the Perrin Sequence,” presented at Allegheny Mountain section meeting of the Mathematics Association of America (Clarion University, Clarion, PA), April 8, 2011.
- (2012) “Domino Tilings of a Rectangle with a Central Rectangle Removed,” presented at Conference on Undergraduate Research in Mathematics (Penn State University), November 4, 2012.

Gray, Colleen (Department of Music)

- (2011) Lecture-recital Prairie Soundscapes: Settings of Willa Cather for Soprano and Piano, International Alliance of Women in Music Conference, Flagstaff, AZ.
- (2011) Performance Stringing Beads: Katherine Hoover’s Eclectic Inspirations, Ninth Festival of Women Composers International, Indiana, PA.
- (2013) Lecture-recital Shining Jewels: Exploring the Songs of Lee Hoiby, International Congress of Voice Teachers, Brisbane, Australia.
- (2013) Performance of Tesla’s Pigeon by contemporary Australian-American composer, Melissa Dunphy- winner of the 2012 NATS Art Song Competition, International Congress of Voice Teachers, Brisbane, Australia.
- (2014) Master classes of American Art Song, University of Zagreb Academy of Music Croatia, University of Split Academy of Music Croatia.
- (2014) Solo Recitals Shining Jewels: Exploring the Songs of American Composer Lee Hoiby, University of Zagreb Academy of Music Croatia, University of Split Academy of Music Croatia.
- (2014) Lectures on life and compositional style of Lee Hoiby, University of Zagreb Academy of Music Croatia, University of Split Academy of Music Croatia, and the University of Dubrovnik Academy of Music Croatia.
- (2014) Performance of songs composed by local composer Judy Bruce 2013, Tenth Festival of Women Composers International, Indiana, PA.

- (2014) Performance of Songs by American Composer Manna-Zucca, Tenth Festival of Women Composers International, Indiana, PA.

Hadley, Susan (Music Department)

- (2013) “What we Hear/What we See: Subjugating Narratives and Liberatory Practices,” Keynote address for the 9th European Music Therapy Congress, *Setting the tone: Cultures of relating and reflecting in music therapy*, Oslo, August 7–10, 2013.
- (2013) “Therapeutic uses of rap and hip hop,” Keynote address for the Music, Mind, and Body conference, Perth, Western Australia, June 9–10, 2013.
- (2013) “Multicultural Awareness preparation for music therapists.” CMTE, Eastern Michigan University, October 5, 2013.

Hardina, Natasha (Department of Biology, major), Carolyn Steglich, and Stacy Hrizo (Faculty Advisor)

(Department of Biology) (2013) “Infection Susceptibility in a TPI Deficiency Model” Poster Presentation: Annual Drosophila Research Meeting by the Genetics Society of America, Washington DC, April 2013.

Abstract: Triosephosphate Isomerase (TPI) is a glycolytic enzyme. Mutations in this enzyme are associated with a neurodegenerative disorder called TPI Deficiency. Individuals with TPI Deficiency also exhibit increased susceptibility to infection due to reduced immune system function. We can model TPI deficiency using a Drosophila melanogaster strain with a mutation in the TPI gene that causes an M80T transition in the amino acid sequence. This mutation is called “sugarkill”. These sugarkill flies exhibit similar phenotypes to humans with the disorder such as reduced lifespan and neurodegeneration. However, it has not been determined if sugarkill animals have reduced immune function. Therefore we have examined mutant TPI flies and wildtype flies to determine if they model this characteristic of the human disease. We hypothesized that the immune response in the sugarkill flies should be impaired compared to wild type Drosophila melanogaster.

Hartmann, H. (Department of Geography, Geology, and the Environment), L. Andresky, and R. Kellar (Department of Geography, Geology, and the

Environment, majors) (2013) “Observed Annual and Monsoonal Precipitation Trends in the Indus River Basin,” presented at Middle States Division of the Association of American Geographers Annual Meeting, 18 October 2013. Buffalo, U.S.A.

Henry, Brooke E, Miriah Saxion, John Piserchio (Department of Biology, major) and Steglich, C (Department of Biology) “Isolation of ta Protein Produced in the Harderian Gland of *Thamnophis Sirtalis* (Garter Snake) by Expression of Cloned Gene in *Escherichia Coli*,” poster presentation, Student Symposium for Research, Scholarship, and Creative Achievement, April 9, 2013.

Henry, Brooke E, Saxion, Miriah, Piserchio, John, and (Department of Biology, major) and Carolyn Steglich (Department of Biology) (2013) “Isolation of ta Protein Produced in the Harderian Gland of *Thamnophis Sirtalis* (Garter Snake) by Expression of Cloned Gene in *Escherichia Coli*,” poster presentation at CPUB (Clarion University), April 20, 2013.

Hertel, Heather (Department of Art)

- (2013) juried exhibition, SRU High School Art Exhibit, Slippery Rock, PA.
- (2013) juried exhibition, Ellwood City Arts Festival, Ellwood City, PA.
- (2013) juried exhibition, Scholastic Art & Writing Awards, Pittsburgh Region, Wexford, PA.
- (2013) juried exhibition, Associated Artists of Butler County, High School Art Exhibit, Butler, PA.
- (2013) juried exhibition, An Artistic Discovery, The Congressional Art Competition, Slippery Rock, PA.

Hertel, Heather (Department of Art)

- (2013) artist lecture, Colored Variations, Gallery West, Cuyahoga Community College, Cleveland, OH, September 25, 2013.
- (2013) artist reception, Art on the Walls Program, Allegheny Conference, Pittsburgh, PA Nov 2012 – Nov 2013; 1 of 12 established artists selected from a pool of over 100 applicants by Greater Pittsburgh Arts Council, reception July 16, 2013.
- (2013) Group Exhibit: Three x Three, SRU Upper-Level Painting students + 1 faculty, Collin College, Plano, Texas.

- (2013) Invitational Performance Drawing: Caves, Collaborative performance drawing invited by Dance Musician, Andrew Hasenpflug, SRU Faculty Dance concert, Succop Theatre, Butler County Community College, Butler, PA.
- (2013) Invited to speak at FATE: 2013Posthaus: FATE: Foundations in Art: Theory & Education National Conference, Savannah College of Art & Design; Panel Presentation at FATE: “Can Anyone Teach Art These Days?” Interdisciplinary Approaches, Savannah, GA.
- (2013) juried Exhibit : October Evenings juried exhibit, Heesch Gallery, Meadville Council On the Arts, Meadville, Pa; jurors: Lee and Nancy Steadman.
- (2013) solo exhibit, Regatta, watercolor paintings, Port Dover Yacht Club, Port Dover, Ontario, August 2013.
- (2013) two person exhibit, Colored Variations, Gallery West, Cuyahoga Community College, Cleveland, Ohio September 25 – October 25.
- (2013) invitational art exhibit, Area Artists Exhibit, invitational, Grove City College, Grove City, PA, September 13 – October 7, 2013.
- (2013) invitational art exhibit, NPAA Biennial, Lovell Place, Invitational, Erie, PA, September 26 – October 25, 2013.
- (2013) Invitational Performance Drawing: Frederick Douglass Institute Sixty-Second Lecture Series, collaborative performance drawing Invited by Dr. Christophas Walker, SRU Assistant Professor, Public Health & Social Work Including SRU art students: Michael Camera, Constance Briggs, Kaleidoscope Arts Festival, Slippery Rock University, Slippery Rock, PA.
- (2013) Creator & Organizer: Self Event: Artist Talk: guest artists: Rebecca Signoriello, painter and Meghan Clemm, photographer, Feb. 27, Art Building I, Slippery Rock, PA.
- (2013) Creator & Organizer: Self Event: Drawing Workshop: March 7, Art Building I, Slippery Rock, PA.
- (2013) Creator & Organizer: Self Event: Film showing: Raising Renee: Documentary on African-American Painter Beverly McIver, Feb. 19, 2014, ATS, Slippery Rock, PA.

- (2014) Curator: Self: An international juried exhibit of women's self-portraiture, Feb. 17 – March 14, 2014, juror: Leona Shanks, Martha Gault Art Gallery, Slippery Rock, PA.
- (2014) Guest Speaker: Scholastic Art Awards Ceremony, LaRoche College, Pittsburgh, PA Feb. 23, 2014.
- (2014) Invited Presenter: Self-Portrait Research Slide Talk: SRU Diversity & Inclusion Series, March 3, 2014.
- (2014) Juried Exhibit: 76th Area Artists Annual Exhibition, The Butler Institute of American Art, Youngstown, Ohio, January 26 – Feb. 23, 2014, juror: Al Bright.
- (2014) juror: Scholastic Art Awards, North Allegheny High School, Pittsburgh, PA, January 17, 2014.
- (2014) Mentor: The Developing Self: SRU Student Art Exhibit, Feb. 17 – 28, 2014, Art Building I, Slippery Rock, PA.
- (2014) Organizer & Exhibitor: SRU ART Faculty Exhibit, Erie Insurance Group, Erie, PA, March 14 – April 11, 2014.
- (2014) Participant & Exhibitor: Carnegie Mellon University's DRAW Symposium 2014, Feb 27 – March 1, 2014, Pittsburgh, PA.
- (2014) Recruiter: Associated Artists of Butler County High School Art Exhibit, Reception: March 21, 2014, Butler, PA.

Hilton Jason T. (Department of Secondary Education/ Foundations of Education)

- (2013) Pedagogy for digital literacy: Advancing "hyperreading" skills in the classroom. Author Roundtable Presentation at the Pennsylvania Association of Colleges and Teacher Educators 42nd Annual Teacher Education Assembly in Harrisburg, PA. (2013, October).
- (2013) Fostering critical dialogue in online course pedagogy. Paper Presentation at the Pennsylvania Association of Colleges and Teacher Educators 42nd Annual Teacher Education Assembly in Harrisburg, PA. (2013, October).

Hilton, Jason T. (Department of Secondary Education/ Foundations of Education) and J. Canciello

- (2014) Using iPads to foster digital literacy: Research findings. Roundtable presentation at the International Society for Technology in Education 2014 Conference in Atlanta, GA. (2014, June).
- (2014) iPad-based curriculum for digital literacy. Paper presentation at the Pennsylvania Educational Technology Expo and Conference in Hershey, PA. (2014, February)

Hopkins, Zachary (Department of Mathematics, major)

(2010) "Predicting Patterns in the Rolls of a Single Die," presented at Pi Mu Epsilon Conference (Youngstown, OH), February 27, 2010.

Hopkins, Zachary, Jamie Gordon (Department of Mathematics, majors) (2011) "The Best Running Back of All Time," presented at Allegheny Mountain section meeting of the Mathematics Association of America (Clarion University, Clarion, PA), April 8, 2011.

Horam, Kayla (Department of Computer Science, major), Stephen Larso, and Frank Hulick (Department of Computer Science) (2014) "Computer Competency Level of Incoming College Students," Poster presentation at NCUR, Lexington, KY, April 3, 2014.

Jackson, Dallas J., Robert Arnhold, Pam Arnhold, Wendy Fagan (Department of Physical and Health Education), and L. Quidone (2014) presented "Section 504 of the rehabilitation act of 1973: Ensuring equal opportunity for participation." at the Slippery Rock University Diversity & Inclusion Series in Slippery Rock, PA in 2014.

Jansto, Susie, Corey Dolbashian, Garrett Bonfanti (Department of Physics, majors), and Krishna Mukherjee (Department of Physics) (2011) "New Data about the Sun Comes to Light," poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Jendrasik, Marisa and Amber Adams (Department of Mathematics, majors) (2013) "A New Level of Tic-Tac-Toe," MAA meeting at Indiana University of PA, Indiana, PA, March 5, 2013.

Jenny, Geraldine C. (Department of Elementary/Early Childhood) (2014) presented "Professor Protégé Program:

An innovative Recruitment Tool" at the National Social Science Association Conference, Las Vegas, Nevada April 14, 2014.

Brief Abstract: An analysis of data regarding the effectiveness of the initial Professor Protégé Program on university student recruitment.

Jensen, Brock T., Jonathan H. Anning (Department of Exercise and Rehabilitative Sciences), Yen-Kuan Lin, Chia-Ying Lien, and Chrisopher R. Lefever (2013) "Using discriminant analysis to predict resistance assessment method selection," poster Presentation, International Journal of Arts and Sciences Euro-American Conference; Bad Hofgastein, Austria. 2013.

Kentzel, Ethan Stuart (Department of Biology, major) and Susan J. Rehorek (Department of Biology) (2013) "Comparison of re and Post-Natal Structure of the Nasal and Orbital Bones of Meriones Unguicatus (Mongolian Gerbils)," presented at Student Symposium for Research, Scholarship, and Creative Achievement, April 9, 2013.

Klug, Katelyn (Department of Physics, major) and Krishna Mukherjee (Department of Physics) (2011) "Further Discovery of Mercury," poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Krayesky, David M. (Department of Biology), A. L. Mator, J. N. Norris, A. R. Brown, L. M. Betler, and S. Fredericq (2013) presented "New insights into the diversity of Peyssonnelia (Rhodophyta) in the Caribbean" at the Botanical Society of America Meeting in New Orleans, LA in July 2013.

Abstract : Currently, the systematics of the genera within the order Peyssonneliales of the Florideophyceae (Rhodophyta) is not well understood. The Peyssonneliales, represents a group of non-calcified crustose red algae, found in intertidal, subtidal and deepwater localities. Many of the genera in what is currently defined as the Peyssonneliales have been placed into synonymy with Peyssonnelia. Molecular data has shown that there are many cryptic groups within this red algal order, and that Peyssonnelia now has a restricted distribution (Eastern Atlantic and Indian Ocean). The before mentioned molecular data suggests that Peyssonnelia is not

a cosmopolitan group as previously thought and species of Peyssonnelia reported to occur in the Western Atlantic such as P. simulans may belong to another genus. In this study, both sequence (rbcL and LSU) and anatomical data, were utilized to determine the correct phylogenetic placement of P. simulans. The confirmed geographic distribution of P. simulans is Western Atlantic and Indian Ocean. In this study, we demonstrate that P. simulans is a valid species of the Peyssonneliales, but belongs to a genus that is new to science.

Kuhn, Jesse Andrews (Department of Biology, major) and Carolyn Steglich (Department of Biology) (2013) "Creating a Latex Bead-based method for Demonstration of Blood Typing and Other Agglutination Reactions for Immunology," poster presentation, Student Symposium for Research, Scholarship, and Creative Achievement, April 9, 2013.

Laird, Jeremy, Kelsea Hill (Department of Physics, majors), and Krishna Mukherjee (Department of Physics) (2011) "Physiology in Space," poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Lamagna, Leigh Ann (Department of Chemistry, major) (2011) "Progressive Glomeruli Damage in Type 2 Diabetic Rats," poster presentation at American Chemical Society 241st National Meeting (Anaheim, CA), March 2011.

Laughner, Jamie Ann, Jenna Teague (Department of Physics, majors), and Krishna Mukherjee (Department of Physics) (2011) "How Reliable are Cepheids?" poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Lellock, Amber (Department of Biology, major, Dean DeNicola as faculty advisor)

- (2013) "Nutrient Limitation of Benthic Algal Communities in Streams Receiving Treated and Untreated Acid Mine Drainage." Presentation at Student Symposium for the Environment at Westminster College December 5, 2013.
- (2013) Nutrient Limitation of Benthic Algal Communities in Streams Receiving Treated and Untreated Acid Mine Drainage. Presentation at Pennsylvania State System of Higher Education conference for Undergraduate Research in Science,

Technology, Engineering and Mathematics at Slippery Rock University November 16, 2013.

LePore, M., **Robert Arnhold (Department of Physical and Health Education)**, D. Lorenzi, G. White, B. Fogle, D. Salkin, and J. Sloand (2012) Adapted Activities Town Hall Meeting. Pennsylvania Association for Health, Physical Education, Recreation, and Dance Conference, November 30, 2012.

Ligato, Joseph (Department of Psychology), Patrick Conley, Melissa Patterson, Eric Young, Audra Glover (2013) "Personality Traits as a Measurement of Academic Success," presented at Eastern Psychological Association in March 2013.

Abstract: The current study investigated several personality variables along with different measures of academic performance (SAT, ACT and GPA). While Conscientiousness, love of learning, intellectual openness, and creativity all correlated with each other ($p < .001$), only conscientiousness correlated with GPA. The implications for an educational system whose popular measures of success failed to correlate with such variables as love of learning, intellectual openness, and creativity will be discussed.

Ligato, Joseph (Department of Psychology), Melissa Patterson, Patrick Conley, Cassandra Bruce, Eric Young (2013) "Personality Traits as a Measurement of Academic Success: The Relationship between the Subscales of Conscientiousness and GPA," presented at Western Pennsylvania Undergraduate Psychology Conference in April 2013.

Abstract: Research has been conducted on personality traits and how they correlate with academic success. However, most research focuses on general traits, specifically the Five Factor Model's Traits. Studies normally show a positive correlation between Conscientiousness and academic success. A study was carried out among university students to determine whether Intellectual Openness, Love of Learning, Creativity, and Conscientiousness have a correlation with GPA. Conscientiousness was found to be trending towards a statistically significant correlation. Because of this, a follow up study was done on the six facets of conscientiousness. The participants were asked to fill out a questionnaire measuring Self-Efficacy, Orderliness,

Dutifulness, Achievement-Striving, Self-Discipline, and Cautiousness. It was hypothesized that all traits would be correlated with GPA. The results show that Self-Efficacy, Dutifulness, Achievement-Striving, and Cautiousness were associated with college GPA.

Ligato, Joseph (Department of Psychology), Cassandra Bruce, Blaine Shrum, Melissa Patterson, and Sonya Domaracki (2014) "Positive Psychology: Does Work/Life Satisfaction Lead to Good Grades?" presented at Eastern Psychological Association in Boston March 2014.

Abstract: The current study investigated personality scales associated with Work/Life Satisfaction as well as a Leadership scale and their relationship with College GPA. An unexpected result was that Capacity for Love correlated with College GPA with a value of $r = .277$, $p = < .001$. Numerous other traits were also associated with College GPA to a lesser extent such as Hope, Gratitude, Zest, Curiosity and Leadership. The importance of these findings will be discussed.

Leight, Joanne (Physical & Health Education Department)

- (2013) "Go Google! Cool Tools To Communicate, Collaborate and Create," Maryland State Association of Health, Physical Education, Recreation and Dance State Convention, Hunt Valley, MD, October, 2013.
- (2013) "Terrific Tech Tools To Power Up PETE Majors," Maryland State Association of Health, Physical Education, Recreation and Dance State Convention, Hunt Valley, MD, October, 2013.
- (2013) "Using iPads in Physical Education," Poster presentation at International Society for Technology in Education Convention, San Antonio, TX, June, 2013.
- (2013) "Power Up, PETE: Teaching PETE Majors Techno-Tools for Success," American Alliance of Health, Physical Education, Recreation and Dance National Convention, Charlotte, NC, April, 2013.
- (2013) "Technology Innovation to Promote Learning, Movement, and Adventure," (Panel) American Alliance of Health, Physical Education, Recreation and Dance National Convention, Charlotte, NC, April, 2013.

- (2013) "Fabulous Free Tech tools for Teachers: Using Technology to Organize Your Lessons and Your Life," The Eastern District Association of American Alliance for Health, Physical Education, Recreation and Dance, Convention, Valley Forge, PA, February, 2013.

Leight, Joanne and Martin Donahue (Physical & Health Education Department)

- (2013) "Using Technology in Physical Education: Practical Examples," Pennsylvania State Association of Health, Physical Education, Recreation and Dance State Convention, Valley Forge, PA, November, 2013.
- (2013) "Practical Examples of Technology Use in Physical Education," The Eastern District Association of American Alliance for Health, Physical Education, Recreation and Dance Convention, Valley Forge, PA, February, 2013.

Leight, Joanne, Wenhao Liu, Marybeth Miller

(Department of Physical & Health Education Department), and Pilarski, S. (2013) "Increasing Nutrition-Related Knowledge: Intervention Effect on High School Female Athletes. American Alliance of Health," Physical Education, Recreation and Dance National Convention, Charlotte, NC, April, 2013.

Leight, Joanne (Physical & Health Education Department), L. Miller, L., and L. Carr (2013)

"App-solutely! Using iPads in Physical Education," The Eastern District Association of American Alliance for Health, Physical Education, Recreation and Dance Convention, Valley Forge, PA, February, 2013.

Lotz, Samuel David (Department of Biology, major) and Nicole Dafoe (Department of Biology) (2013)

"The introduction of Endoreduplication in Response to Wounding in Seed Plants," poster presentation, Student Symposium for Research, Scholarship, and Creative Achievement, April 9, 2013.

Lundblad, Christine (Department of Chemistry, major)

(2011) "Coupling of Electrochemical Reduction and Iron Release in Recombinant Horse H-chain Ferritin Mutants," poster presentation at University of Maryland (Baltimore, MD), October 2011.

Lundblad, Christine (Department of Chemistry, major)

(2011) "Influence of pH on the Reduction Potentials of Single-Point Mutations in Ferritin," poster, American Chemical Society 241st National Meeting (Anaheim, CA), March 2011.

Lynch, Jeremy M. (Department of Special Education)

(2013) "Lets give them something to talk about," presented at the annual meeting of the Council for Exceptional Children, Teacher Education Division (TED), Ft. Lauderdale, FL.

Lynch, Jeremy M. (Department of Special Education) and

S. D. Lynch (2014) "Let's give them something to talk about: Teaching students with learning disabilities how to THINK mathematically." Presentation at the international meeting of the Learning Disabilities Association, Anaheim, CA. (2014, February).

Lynch, S.D. and Jeremy M. Lynch (Department of Special Education) (2014)

"Preservice elementary teachers' understandings of mathematical discourse." Research presentation at the annual meeting of the Association of Mathematics Teacher Educators (AMTE), Irvine, CA. (2014, February).

Lytle, R. and Robert Arnhold (Department of Physical and Health Education) (2013)

"Meeting the Rights of Students with Disabilities: Improving Adapted Physical Education Services," US Department of Education, Office of Special Education Programs – Project Director's Meeting, Washington, DC, July 17, 2013.

Maben, Alex and Stephen Galloway (Department of

Mathematics, majors) (2013) "Pairing through the Deck," presented at MAA meeting at Indiana University of PA, March 5, 2013.

Maczis, Melissa (Department of Chemistry, major)

- (2011) "Apoptosis and Tissue Transglutaminase Response in Simian Virus-Transformed Human Cells," abstract at Duquesne University Annual Undergraduate Symposium, April 2011.
- (2011) "Differential apoptotic response in normal and virus-transformed human cells," abstract at Experimental Biology Conference (Washington, DC), April 2011.

- (2011) “Differential apoptotic response in normal and virus-transformed human cells,” poster presentation at 14th Annual Undergraduate Research Symposium in the Chemical and Biological Sciences (Baltimore, MD), October 2011.

Maczis, Melissa (Department of Chemistry, major) and Paul Birchbichler (Department of Chemistry) (2013)

“Differential apoptotic response in normal and virus-transformed human cells,” poster presentation at SRU Spring Symposium, April 9, 2013.

Makufka, Katie L (Department of Psychology, major) and Ann Romanczyk (Department of Psychology) (2013)

“What are the Effects of Length of Exposure and Facial Characteristics on First Impressions?”, Poster presentation at SRU Spring Research Symposium, Slippery Rock, PA, April 9, 2013.

Martin, Tim Lee, Hannah Malloy (Department of Psychology, majors), and Jennifer Willford (Department of Psychology) (2013)

“Brain Awareness Week Community Service Project: Concussion Awareness and Prevention in Local high Schools,” Poster presentation at SRU Spring Research Symposium, Slippery Rock, April 9, 2013.

Mayle, Andrew and Jennifer Ihrig (Department of Mathematics, majors) (2011) “Two-Faced Monty Hall: A Variation of Host Behavior,” presented at Allegheny Mountain section meeting of the Mathematics Association of America (Clarion University, Clarion, Pa), April 8, 2011.

Melago, Kathleen (Department of Music)

- (2013). National Flute Association Convention – Performance with Pittsburgh Professional Flute Choir, New Orleans, LA, August, 2013.
- (2013). National Flute Association Convention – Performance with Floyd’s Fantastic Flutes, New Orleans, LA, August 2013.
- (2013). National Flute Association Convention – Performance with Slippery Rock University Flute Choir, New Orleans, LA, August 2013.
- (2014) “Advocacy for Music Educators,” Invited lecture to Eastern New Mexico University Music Education Majors, Portales, New Mexico, January 14, 2014.

- (2014) “Project-Based Field Experience: Applying Teacher Competencies to Experiences Outside the K-12 Classroom,” National Association for Music Education Research and Teacher Education National Conference, St. Louis, MO, April 2014.
- (2014). “Implementing Project-Based Field Experiences into the Level Three Field Experience: The Impact of Teaching Experiences Outside the K-12 Classroom,” Pennsylvania Music Educators Association Annual Conference, Hershey, PA, March, 27, 2014.

Merhaut, J. and **Matthew J. Erickson (Department of Special Education)** (2013) presented “The Legally Proficient Individualized Education Plan (IEP)” at the 2013 Western Region Tapestry Conference, Slippery Rock, PA in October, 2013.

Meztli, Itzi (Department of English) (2014) presented “The Use of Memoir in Freshman Composition: The Impact of Growing Up in South Texas, Bodega Style, on the First Year English Classroom,” in the Session Panel, “Race/Class/Culture: (Re) Opening the First Year Classroom,” at the Conference on College Composition and Communication’s 2014 Annual Convention, held during March 19-22, 2014, in Indianapolis, IN.

Mickle, Katherine (Department of Art)

- (2013) faculty mentor and participant, *Interstudio Collaborative Exhibition (ICE)*, Art Bldg, SRU, November 2013.
- (2013) *The Rising Art Showcase*, Sustainable Enterprise Accelerator, Advanced Technology & Science Hall, Slippery Rock, PA, November 2013. Katherine Mickle acted as Art Department Liaison. Approximately 13 Art Students participated in the group exhibition.
- (2013) *Professionally Hanging an Art Exhibition* lecturer, Associated Artists of Butler County, Butler, PA, December 2013.

Millen, Michelle (Department of Chemistry, major) and Jiyoun Jung (Department of Chemistry) (2013) “Highly Fluorescent Benzofuran Derivatives: Regulation of Light-Emitting Properties through Protonation and Solvatochromism,” poster presentation at Duquesne University Annual Undergraduate Symposium, April 20, 2013.

Miller, Daniel, Kyle Marich (Department of Computer Science, majors), and David Dailey (Department of Computer Science) (2013) "Breaking the Rectilinear Mold," Graphical Web 2013, San Francisco, October, 2013.

Miller, Daniel , Jake Weidman, Grant DenMead (Department of Computer Science, majors), David Dailey, and Deborah Whitfield (Department of Computer Science) (2013) "Expanding Concepts of Navigation in Abstract Spaces," presented at the 28th Annual Spring Conference of the Pennsylvania Computer and Information Science Educators (PACISE), East Stroudsburg University of Pennsylvania, April 5, 2013.

Miller, Logan (Department of Chemistry, major)

- (2011) "Cellular Protein Response Following Apoptotic Induction," poster presentation at 14th Annual Undergraduate Research Symposium in the Chemical and Biological Sciences (Baltimore, MD), October 2011.
- (2011) "Tissue Transglutaminase Response in Myelogenous Leukemia Cells Following Apoptotic Induction," abstract at Duquesne University Annual Undergraduate Symposium, April 2011.
- (2011) "Transglutaminase response during differentiation and apoptosis in myelogenous leukemia cells," abstract at Experimental Biology Conference (Washington, DC), April 2011.

Monfore, Doratha, Jeremy M. Lynch and Matthew J. Erickson (Department of Special Education) (2013) presented "Paraeducator training: What the future holds" at the annual meeting of the Council for Exceptional Children, Teacher Education Division (TED) in Ft. Lauderdale, FL in November, 2013.

Morrice, Rebecca (Department of Theater)

- (2012) Designed the costumes for the SRU Theatre Department productions of View of the Dome.
- (2012) Designed the costumes for the SRU Theatre Department productions of Importance of Being Earnest.
- (2012) Designed the costumes for Unseam'd Shakespeare Company's 2012 productions of Shakespeare in the Raw: A Midsummer Night's Dream and Two Gentlemen of Verona.

- (2013) Designed the costumes for the SRU Theatre Department productions of Bloody Bloody Andrew Jackson.
- (2013) Designed the costumes for the SRU Theatre Department productions of Good Night Desdemona, Good Morning Juliet.
- (2013) Designed the costumes for the SRU Theatre Department productions of Richard III .

Nard, Melissa (Student Counseling Center) (2013) "A New Approach to Outreach: Creating and Sustaining an Active Minds Chapter," presented at the American College Counseling Association conference, New Orleans, LA, September 25-28, 2013.

Nickle, Courtney, Stephanie Clark, Taylor Phillips (Department of Physics, majors), and Krishna

Mukherjee (Department of Physics) (2011) "The Planck Mission: Looking into the Past to Learn about Our Future," poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

O'Neil, Caitlin and **Bradley Wilson (Department of Philosophy, Honors students)** (2013) presented "Moving beyond Excel: Creating an Honors Program Database in Microsoft Access" at the National Collegiate Honors Council Annual Conference in New Orleans, LA on November 9, 2013.

O'Shea, Sean (Department of Mathematics, major) (2011) "The Fifteen Puzzle," presented at Allegheny Mountain section meeting of the Mathematics Association of America (Clarion University, Clarion, PA), April 8, 2011.

Pace, Dennis (Department of Mathematics, major) (2012) "Can Vampires Play Baseball?" presented at Allegheny Mountain Section Meeting (University of Pittsburgh at Johnstown, PA), April 10, 2012.

Panger, Quentin (Department of Mathematics, major) (2013) "Go and Solvable Endgame Scenarios Via Partitioning," MAA meeting at Indiana University of PA, Indiana, PA, March 5, 2013.

Paradis, Lia (Department of History) (2013) presented her paper "Teaching the Troubles- Empathy, Google Maps, and History Pin" at the Mid-West Conference on British Studies

at DePaul University in Chicago, IL on October 11-13, 2013.

Patterson, Melissa (Department of Psychology), Joseph Ligato, Cassandra Bruce, Sonya Domaracki, and Blaine Shrum (2014) "Do Health Supplements Lead to Increased Cognitive Function in College Students?" Presenting at Eastern Psychological Association in Boston March 2014.

Abstract:

Kennedy (2006) stated that healthy aging involves an interaction between the environment, genetics, and lifestyle choices, especially diet and physical activity. Over the past few decades, disease patterns have changed. He hypothesized that this may be due to the shifting nutrition practices occurring worldwide, involving a transition from grain-based diets to those which include a large amount of fats, sugars, and variety. Kennedy's research illustrates the importance of preventative intervention.

According to Offit (2013), the body converts food into energy within the mitochondria in organelles, a process requiring oxygen. A consequence of this oxidation process is the generation of electron scavengers known as free radicals, which have the potential to damage DNA, cell membranes, and the lining of arteries. These free radicals have also been linked to aging, disease, and cognitive deficiencies.

According to Grodstein, Chen, & Willett (2003), data suggests that oxygen free radicals are likely involved in the deterioration of cognitive processes. They examined the relation of high-dose antioxidant supplements to cognition in elderly women (ages 70-79) and found that long-term, current users of vitamin E with vitamin C had significantly better average cognitive performance in comparison to women who had never used vitamin E or C. There was also a trend for increasingly higher mean scores with increasing durations of use. Also, it was vitamin E's combination with vitamin C that produced an increase in cognitive abilities. Benefits were most noticeable in women who had a low dietary intake of α -tocopherol and took the supplements together, actually exhibiting cognitive functions equivalent to being two years younger than they were. Prior research by Masaki, Losonczy, Izmirlian, Foley, Ross, Petrovitch, Havlik, & White (2000) supports these findings. They found that vitamin E and C may help protect against vascular dementia and improve overall cognitive function for men (and women) in their later years.

In the current study, it was hypothesized that supplement use in the form of vitamins and minerals would improve cognitive function, measured as college GPA. It was theorized that if an individual's overall health was improved, better grades would result. It was of particular interest if this cognitive improvement could be replicated in a much younger sample, such as those taking an introductory psychology class, similar to Eilander et al.'s (2010) study. These researchers noted that iron is essential for myelination and neurotransmitter neurochemistry and concluded that supplements have a positive effect on academic performance in children 5 to 16 years of age. The current study also measured the degree of importance in regard to taking their supplements regularly in order to determine whether a mind-body connection to one's health and well being correlated to a higher GPA in comparison to those who did not place much importance on supplement use.

Method:

Participants: A total of 153 undergraduate college students voluntarily participated in the survey. All participating and non-participating students were awarded extra credit for their participation.

Materials: Supplement use was measured using a survey that examined the association between specific supplements and changes in cognitive function, measured as college GPA. Participants marked 1 = No supplements, 2 = One supplement, 3 = 2 to 5 supplements, 4 = 6 to 9 supplements, 5 = 1 to 13 supplements, and 6 = 14+ per day on the surveys to see if use correlated with GPA. Supplements and vitamins tested for include multivitamins, omega 3/fish oil, vitamin C, biotin, B vitamins, calcium, probiotics, coenzyme Q10, protein, creatine, vitamin D, resveratrol, glucosamine/chondroitin, ginkgo biloba, ginseng, magnesium, turmeric/curcumin, fiber, caffeine, green tea extract, melatonin, branch chain amino acids, zinc, and quercetin. Participants were also given a chance to record any other supplements they use. In addition, participants indicated how important taking their supplements routinely was to them on a 1 to 4 scale: 1 = Not Important, 2 = Not Very Important, 3 = Moderately Important, and 4 = Very Important.

Procedure: All participants were provided with a one page survey that had the instructions and informed consent along with the questions about supplements. The total time of participation was about fifteen minutes.

Results:

A number of Pearson r correlations were calculated to draw conclusions on our hypotheses. In addition, several t-tests were conducted to see if the use of any particular supplement was associated with higher GPA. The results illustrated that there was nothing even trending towards statistical significance with all values of $p > .20$. Essentially, there was no hint of any relations between any of the supplements and academic success.

Discussion:

Future research on supplement use that may affect academic success should focus on expanding upon the previously conducted here in order to examine other factors including gender and a broader age range. The lack of statistical significance in this study could simply be due to the majority of participants being relatively young introductory psychology students, ranging in age from approximately 18 to 22. Prior research indicates the supplement use does not seem to actually have any sort of statistical significance until participants are much older (Grodstein, Chen, & Willett, 2003). A longitudinal study spanning across several decades would reveal whether supplemental vitamin use is truly connected to cognitive function. However, that design poses the risk of participants dropping out, moving away, etc, not to mention the study's procedure would need to be altered since GPA could not be calculated past graduate school. Finally, vitamin E should be added to the list of possible supplements used in order to determine whether there is any correlation between its combined use with vitamin C and participants' GPA.

Peacock, Sunita (Department of English) (2014) presented a paper titled, "Trickster or Colonizer: The Latent Effects of Colonialism in Efu Sutherland's play The Marriage of Anansewa" at the 38th Comparative Drama Conference at Stevenson University in Baltimore, MD, on April 3-5, 2014.

Pearce, Benjamin (Department of Mathematics, major) (2010) "Deal or No Deal?" presented Pi Mu Epsilon Conference (Youngstown, OH), February 27, 2010.

Peguero, Anthony and Xin Jiang (Department of Criminology and Criminal Justice) (2014) "Social Control across Immigrant Generations: Adolescent Violence at School and Examining the Immigrant Paradox." To be

presented at the annual meeting of Academy of Criminal Justice Sciences (ACJS), Philadelphia, PA.

Petrusch, Zachary (Department of Computer Science, major), Deborah Whitfield, and David Dailey (Department of Computer Science) (2013) "Crawling the Web in Search of Graphs for Navigational Testing," PASSHE UR in STEM Conference, Slippery Rock, PA, November 16, 2013.

Petrusch, Zachary, Nicholas Botzer (Department of Computer Science, majors), Deborah Whitfield, and David Dailey (Department of Computer Science) (2014) "Navigating the Web with Graph Theoretic Structures," Poster presentation at NCUR, Lexington, KY, April 3, 2014.

Phillips, Taylor, Courtney Nickle, Stephanie Clark (Department of Physics, majors), and Krishna Mukherjee, (Department of Physics) (2011) "The Planck Mission: Looking into the Past to Learn about Our Future," poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Pitzer, Scott (Department of Mathematics, major) (2013) "How Much Damage Can Your Pokemon Do?" MAA meeting at Indiana University of PA, Indiana, PA, March 5, 2013.

Prokopiak, Zoey Adele (Department of Biology, major) and Carolyn Steglich (Department of Biology) (2013) "Harderian Gland Secretions of Anolis Carolinensis," poster presentation, SRU Spring Symposium for Research, Scholarship, and Creative Achievement, April 9, 2013.

Rineer-Hershey, A., Richael Barger-Anderson, and Robert Isherwood (Department of Special Education) (2014) presented "The Impact of Special Education Coursework in Teacher Education Programs" at the Learning Disabilities Association Annual International Conference in Anaheim, CA on February 19, 2014.

Rineer-Hershey, A. (Department of Special Education) and D. Wissinger

- (2013) presented "Enhancing Critical Thinking of Students in Inclusive Classrooms through Argumentative Discussions" at The International

Conference for Learning Disabilities in Austin, TX in October, 2013.

- (2013) presented “Effective Preparation for PK-4 Teachings in Pennsylvania’s Inclusive Classrooms” at The International Conference for the Council on Learning Disabilities in Austin, TX in October, 2013.

Robert Vallin (Department of Mathematics)

- (2013) “From the Gilbreath Principle to new types of numbers,” MOVES (Mathematics Of Various Entertaining Subjects) Conference at MoMath, New York, NY, 2013.
- (2013) “Presentation Fridays in Advanced Calculus,” Contributed Paper Session on Best Practices in Inquiry-Based Learning, MathFest, Hartford, CT, 2013.
- (2013) “Continued Fractions from a Magic Trick,” MAA Contributed Paper Session on Recreational Mathematics, MathFest, Hartford, CT, 2013.
- (2013) “Presentation Fridays in Advanced Calculus,” Legacy of R.L. Moore Conference, Austin, TX, 2013.
- (2013) “Cantor and the paradise he created for us,” Pirnot Lecture, Kutztown University, Kutztown, PA, 2013.

Rummell, David J, Samantha E McCormick , Mikella M Graham (Department of Chemistry, majors), and Donald Zapien (Department of Chemistry) (2013) “Direct Electron Transfer of Recombinant Horse L-chain Ferritin,” poster presentation at SRU Spring Symposium, April 9, 2013.

Sadler, M., M. Brow., K. Dugan, J. Litchaier, K. Port, and **Kimberly Smith (Department of Exercise and Rehabilitative Sciences)** (2013) “Examination of exercise behaviors, exercise barriers and exercise self-efficacy of British adults.” Poster presentation, Harrisburg, PA. Department of Exercise and Rehabilitative Sciences (November 2013).

Schanz, Youngyal Yim (2014) “Self-esteem & Aggression: Prediction of Aggression” at the annual ACJS (Academy of Criminal Justice Sciences) on the 19th of February in Philadelphia, PA.

Schnupp, Rebecca (Department of Criminology and Criminal Justice) (2012) “A discussion of the history, effectiveness, evaluations, and case examples of specialized courts.” Roundtable discussant at the Annual Conference of Pennsylvania Association of Criminal Justice Educators (PACJE), Altonna, PA.

Schnupp, Rebecca (Department of Criminology and Criminal Justice), and Sarah Kuehn (Department of Criminology and Criminal Justice) (2013) “Inside the Black Box: Participants’ Perspectives of a Drug Treatment Court.” Paper presented at the 65th Annual Meeting of the American Society of Criminology, Atlanta, GA.

Schrecongost, Dustin, Corey Dolbashian, Floyd Hilty (Department of Physics, majors), and Krishna Mukherjee (Department of Physics) (2013) “Asteroid Deflection,” presented at Student Symposium for Research, Scholarship, and Creative Achievement, April 9, 2013.

Schrecongost, Dustin, Chris Wijeysooriya (Department of Physics, majors), and Krishna Mukherjee (Department of Physics) (2011) “Going Green With Solar Energy,” poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Shanks, Matthew, Ethan Corle, Rachel Henderson , John Muron (Department of Physics, majors), and Krishna Mukherjee (Department of Physics) (2011) “Hybrid Bicycles,” poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Sharp, Katie (Department of Physics, major), and Krishna Mukherjee (Department of Physics) (2011) “It’s electric: A review of studies done on electric fish and platypus Electroreception,” poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Shipe, Nancy (Graduate School of Physical Therapy) (2014) presented a Continuing Education Course for Peruvian physiotherapists entitled “Differential Diagnosis and Physiotherapy Management of Selected Peripheral Joint Pathologies: An emphasis on manual therapy, therapeutic exercise, and functional training” at La Universidad Alas

Peruanas, Arequipa, Peru from January 15–18, 2014.

Sponsored by Medical Ministries International, Peru and La Universidad Alas Peruanas.

Shirk, George (Department of Computer Science, major) and David Dailey (Department of Computer Science)

(2011) “Omni-Opticon: a way of visualizing trend-proximities,” SVG Open 2011, Cambridge, MA, September, 2011.

Shumway, J. (Department of Art)

- (2013) video entitled *God Particle* juried into the New Media Caucus’ 10 year anniversary traveling video exhibition entitled *NMC 10 Video Programme*, June 2013; 2 minutes 25 seconds.
- (2014) exhibited the video *God Particle* as part of the travelling exhibition *NMC 10 Video Programme* at the Llewellyn Gallery, Alfred State College, Alfred, NY, January 20-February 7, 2014.
- (2014) the Sleeth Gallery, West Virginia Wesleyan College, Buckhannon, WV, January 14-30, 2014.
- (2014) the Cassidy Theatre, Chicago Cultural Center (in conjunction with the College Art Association Conference), Chicago, IL, February 13 – 14 2014.
- (2014) the Brick City Gallery, Missouri State University, Springfield, MO, March 4-15, 2014.

Simpson, J., M. Walborn, **Nicole Hahna (Department of Music)**, M. Fay, and D. Register (2013, October 21-22) “Pennsylvania Music Therapy Legislative Hill Day,” Continuing Music Therapy Education (CMTE) presentation, Harrisburg, PA.

Skeele, David (Department of Theatre) (2014) has had four of his plays chosen for production. The University of Basel, in Basel, Switzerland, will perform STARLA, THE MARGINS and HUNGRY JANE, while HUNGRY JANE will also be performed as part of a short-play festival in Canberra, Australia.

Sloneker, Sarah (Department of Art, major) (2013) Make Believe, National juried art exhibition, Andy Bloxam: juror, Darkroom Gallery, Essex Junction, VT, October 2013 (prompted by assignment in Art 307: Advanced Studio Photography, prof: Katherine Mickle).

Smiely, Katelyn (Department of Chemistry, major) (2011) “Chemical Modification of the Surface of Cobalt Oxide,” poster presentation at American Chemical Society 241st National Meeting (Anaheim, CA), March 2011.

Smith, Bryan (Department of Chemistry, major) and Jiyoung Jung (Department of Chemistry)

(2013) “Highly Fluorescent Benzofuran Derivatives: Regulation of Light-Emitting Properties through Protonation and Solvatochromism,” poster presentation at SRU Spring Symposium, April 9, 2013.

Smith, Elizabeth D (Department of Geography, Geology, and the Environment, major) and Langdon Smith (Department of Geography, Geology, and the Environment) (2013) “Greening National Parks: Expanding Traditional Roles to Combat Climate Change,” presented at SRU Spring Symposium, April 9, 2013.

Smith, Kelly (Department of Computer Science, major) and Deborah Whitfield (Department of Computer Science) (2013) “PICS: Platform Independent Cloud Scripting,” SRU Spring Symposium, Slippery Rock, PA, April 9, 2013.

Smith, Kimberly (Department of Exercise and Rehabilitative Sciences), A. Bramble, L. Murberger, and J. Secich (2014) “Accuracy of three commercially available pedometers when used on various walking terrains,” Slide Presentation, Athens, Greece. (August 2014).

Smith, Kimberly (Department of Exercise and Rehabilitative Sciences), A. Sieczkowski, L. Murberger, and J. Secich (2013) “Accuracy of three commercially available pedometers in measuring step count, distance traveled, and kilocalorie Expenditure,” Poster presentation, Indianapolis, IN. Department of Exercise and Rehabilitative Sciences (May 2013).

Snyder, Kristy, Amanda Eplett (Department of Mathematics, majors) (2011) “Heads or Tails?” presented at Allegheny Mountain section meeting of the Mathematics Association of America (Clarion University, Clarion, PA), April 8, 2011.

Solomon, Nanette Kaplan (Department of Music)

- (2013) presented recitals of the piano music of Mana-Zucca (born Gussie Zuckermann 1885-1981)

at St. Patrick Church in Youngstown, Ohio; at Florida International University, in Miami, Florida; at the Steinway Gallery of Pittsburgh; and at Slippery Rock University. Dr. Solomon also presented lecture-recitals entitled *Muse Over Miami: The Legendary Mana-Zucca* at the national conference of the Society for American Music in Lancaster, Pennsylvania, and at the Northeast Regional meeting of the College Music Society at the Crane School of Music, SUNY Potsdam, in Potsdam, New York.

- (2013) recorded the piano music of Mana-Zucca at the Performing Arts Center at Seton Hill University, Greensburg, PA for an upcoming CD release on the prestigious Albany Record label.
- (2013) presented a lecture-recital entitled “There’s Always Room for Dello (Joio): A Centennial Tribute to the Piano Works of Norman Dello Joio (1913-2008)” at the national conference of the College Music Society held in Cambridge, Massachusetts. While there, Dr. Solomon served as collaborative pianist for two other art song presentations on American women composers.
- (2013) was recently appointed to be the inaugural Editor of the Audio Performance Archives for the College Music Society online Symposium. This endeavor will enable performing artists to have the same juried venue for their performances as scholars do for written work.
- (2013) pianist and Dr. Colleen Gray, soprano presented two performances – one of the works of Mana-Zucca, and the other of newly composed works by Pennsylvania composer Judy Bruce at the Festival of Women Composers held at Indiana University of Pennsylvania.
- (2013) along with her sister, Iris Kaplan Rosenthal (the Kaplan Duo), presented a four-hand piano recital at the Women and Music Festival sponsored by the Eastman School of Music at Nazareth College in Rochester, New York. They also presented master classes at the Eastman School of Music, and Nazareth College.

Spangler, Brad (Department of Mathematics, major)

(2013) “Juggling the Numbers,” MAA meeting at Indiana University of PA, Indiana, PA, March 5, 2013.

Spisak, Paul Robert (Department of Psychology, major) and Catherine Joan Massey (Department of Psychology)

(2013) “The Effect of Health Behaviors on mental Toughness,” Poster presentation at SRU Spring Research Symposium, Slippery Rock, April 9, 2013.

Stevens, James John (Department of Geography, Geology, and the Environment, major) and Patrick Burkhart (Department of Geography, Geology, and the Environment)

(2013) “Evaluation of Geomorphic Forcing by the Medieval Climate Anomaly in the white River Badlands,” presented at Student Symposium for Research, Scholarship, and Creative Achievement, April 9, 2013.

Stevens, James, Colten McDeavitt (Department of Geography, Geology, and the Environment, majors), and Patrick Burkhart (Department of Geography, Geology, and the Environment) (2013) “Evaluation of Geomorphic Forcing by the Medieval Climate Anomaly in the white River Badlands, South Dakota,” presented at Northeastern (GSA) Geological Society of America Meeting, March 16, 2013.

Teague, Jenna, Jamie Ann Laughner (Department of Physics, majors), and Krishna Mukherjee (Department of Physics) (2011) “How Reliable are Cepheids?” poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Uber, Deric and Rip Straessley (Department of Mathematics, majors) (2011) “Touchdowns, Safeties and Probability,” presented at Allegheny Mountain section meeting of the Mathematics Association of America (Clarion University, Clarion, PA), April 8, 2011.

Verba, Steven, Brock T. Jensen, and Jeffrey S. Lynn (Department of Exercise and Rehabilitative Sciences) (2014) presented the “Heart Rate Response and Force Production in Men and Women Performing Deer Hunting-Associated Activities” at the American College of Sports Medicine National Meeting in Orlando, FL in May/June 2014.

Visco, Angelo, Cory Dolbashian (Department of Physics, majors), and Rizwan Mahmood (Department of Physics) (2013) “Optical Studies of Soft Matter,” presented at Student Symposium for Research, Scholarship, and Creative Achievement, April 9, 2013.

Wang, Jialing (Department of Geography, Geology, and the Environment), Carolyn V. Prorok (Professor Emeritus, Department of Geography, Geology, and the Environment) (2013) “Yueyatan Park: Inclusive Social Culture of a City Park in Kunming, China”, oral presentation at the 2013 Annual Meeting of the Association of American Geographers, April 9-13, Los Angeles, CA, USA.

Weidman, Jake, Grant DenMead (Department of Computer Science, majors), David Dailey, and Deborah Whitfield (Department of Computer Science) (2012) “Using Gravity to Navigate the Internet and other Graphs,” Proceedings of the 2012 Graphical Web Conference, Zurich, Switzerland, September, 2012.

Wells, Deborah (Department of Elementary Education and Early Childhood Development)

- (2013) presented “Dangerous” Ideas: Teaching Labor History Within the Common Core” at the National Council of Teachers of English in Boston, MA in November, 2013.
- (2013) presented “Unions and the Teaching Profession” at the Midwestern Regional Meeting of the Student Pennsylvania State Teachers Association in Slippery Rock, PA in November, 2013.

Westman, Barbara (Department of Art)

- (2013) “5+1” exhibition at Bottlebrush Gallery, Harmony, PA; Five Advanced Fiber Art students and Barbara Westman exhibited their recent fiber artworks.
- (2013) “Monotypes,” Presentation and workshop at the Arts in Society International Conference, Evotos Lorand University, Budapest, Hungary, June 24 – 27, 2013.
- (2013) Fall on SRU Campus, an outdoor exhibit of handmade banners made by the students in Advanced Fibers class, September/October, 2013.
- (2014) SRU Art Department Faculty Exhibition, Erie Insurance, Erie, PA, March 3 – April 11, 2014.
- (2014) West Virginia University, gallery: Studio 2504, exhibition of monotypes, March 10th – 21st, 2014.
- (2014) Spring in Slippery Rock – Handmade banners made by the Advanced Fibers class in

collaboration with Slippery Rock Development Committee.

Wetzel, Katelyn (Department of Physics, major), and Krishna Mukherjee (Department of Physics) (2013) “The Fermi Bubbles,” poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 9, 2013.

Wilhelm, N., J. Kelly, S. Kovacs, J. Urda, C. Winters, B. Larouere, **Kimberly Smith, and Jeffrey Lynn (Department of Exercise and Rehabilitative Sciences)** (2013) “Effectiveness of the Exercise is Medicine (EIM)TM referral program to change exercise behaviors and efficacy,” Slide presentation, Harrisburg, PA. Department of Exercise and Rehabilitative Sciences (November 2013).

Williams, Daniel M, Ashley Colatriano (Department of Exercise and Rehabilitative Sciences, majors), and Marketa Schublova (Department of Exercise and Rehabilitative Sciences) (2013) “Core Temperature Changes in Collegiate Athletes in a Climate Controlled Anaerobic Sport and an Outdoor Aerobic Sport,” Poster presentation at SRU Spring Research Symposium, Slippery Rock, PA, April 9, 2013.

Williams, Julie L, D.D. Williams, M.K. East, A.L. Stanley, **William J. Evans (Department of Counseling and Development)**, and K.L. Miller (2014) “Assessing Student Dispositions in Counselor Training Programs: Implications for Supervision, Program Policy, and Legal Risk Management,” presented at Ohio Association of Counselor Education and Supervision Conference, Columbus, Ohio, January 31.

Wilson, Bradley (Department of Philosophy and Honors) and Dr. Jean Jones (Honors Program Director, Edinboro University of PA) (2013) presented “Don't Assume They Know: Honors PR Inside the University” at the National Collegiate Honors Council Annual Conference in New Orleans, LA, on November 8, 2013.

Wolfe, Jason R. (Department of Philosophy, major) (2013) presented “Is God an Atheist?” at the 26th Annual Statewide PASSHE Interdisciplinary Association for Philosophy and Religious Studies Conference.

Wozniak, Matthew (Department of Physics, majors) and Manuel Valera (Department of Physics) (2013)

“Dynamical properties of Colloids Immersed in a Uniform Electric Field at High Densities,” presented at Student Symposium for Research, Scholarship, and Creative Achievement, April 9, 2013.

Wozniak, Matthew, Travis Prest (Department of Physics, majors), and Krishna Mukherjee (Department of Physics)

(2011) “Other Worlds: An Expository and Analytical Summary of the Kepler Mission,” poster presentation at Student Symposium for Research, Scholarship, and Creative Achievement, April 2011.

Zeiger, Benjamin P. (Department of Philosophy, major)

(2013) presented “God and Forgiveness: A Critique” at the 26th Annual Statewide PASSHE Interdisciplinary Association for Philosophy and Religious Studies Conference.

Zhou, Hongbo (Department of Computer Science) (2012)

“On Stressing SELinux in Information Technology Curriculum,” In Proceedings of the 2nd International Conference on Future Computer in Education, Lecture Notes in Information Technology, Vol. 23-24, pp. 133 - 137, Shanghai, China, June 2012.

RECENT RESEARCH ACTIVITIES

Ambrosio, Nora (Department of Dance)

- (2013) Ambrosio's text Learning about Dance (6th Edition), Kendall/Hunt Publishing Company. Dubuque, IA., has sold over 200,000 copies and is used in dance programs across the country and in Canada.
- (2013) Ambrosio's text The Excellent Instructor and the Teaching of Dance Technique (2nd Edition), Kendall/Hunt Publishing Company. Dubuque, IA., includes a new instructional DVD for dance teachers and students.

Anderson, Melanie (School of Business) (2013)

Carl Menconi Case Writing Competition awarded by the IMA Committee on Ethics for the case study “WorldCom’s Betty Vinson and Cynthia Cooper: A tale of two professionals.”

Arnhold, Robert (Department of Physical and Health Education)

- (2012) Submitted to U.S. Department of Education, Office of Special Education Programs. Highly Qualified Adapted Physical Education Teachers in Pennsylvania. Funded \$1,250,000 for five years.
- (2012) Submitted to DSF Charitable Foundation. Classroom to Community Program. Funded \$160,000 two years.

Barnes, Carol (Department of Biology, major) and Stacy Hrizo (Faculty Advisor, Department of Biology) (2014)

were awarded for the project, Examination of Metabolic Activity of TPI Mutant Yeast with Alamar Blue.

Description: The purpose of this project is to test the metabolic efficiency of Saccharomyces cerevisiae that have been transfected with a plasmid containing a D. melanogaster TPI deficiency causing mutation. Our hypothesis is that mutants M80T TPI will exhibit a lower metabolic rate at 30°C and both M80T and E104D will be less active at 37°C. Other mutations may exhibit modest effects. This is based on our previous studies that have shown these mutants to have growth defects at these temperatures.

Barta-Smith, Nancy (Department of English) (2013) participated in the 38th Annual Meeting of the International Merleau-Ponty Circle on Movement– In History, Art and Being at Duquesne University on September 26–28, 2013.

Brown, George (Department of Political Science)

- (2013) received a Faculty-Student Research Grant for \$2,500 for a collaborative research project with student Patrick Baker on “China, ASEAN and Maritime Territorial Disputes in the South China Seas.”
- (2013) completed a final (20 page) grant report to the Henry Luce Foundation as the conclusion to a two-year, \$200,000 faculty development program grant on Chinese Communities in Southeast Asia that he co-directed from 2011-2013.
- (2014) was selected from a national pool of applicants to participate in a faculty development summer research seminar held in India. The seminar, titled “India: Religion, Globalization, and the Environment in the 21st century,” will take place from June 10 – July 1, 2014, and is funded by the AsiaNetwork and the Mellon Foundation.
- (2014) attended the Association for Asian Studies Annual Conference, held in Philadelphia from March 27-30. This is the premier Asian Studies academic organization in the U.S. Dr. Brown met with program officers from the Henry Luce Foundation to discuss renewing a grant on Chinese Communities in Southeast Asia.

Figel, Jared (Department of Philosophy, major) (2013) was awarded the top prize for best student research papers for his “A Critical Response to Richard Swinburne” at the 26th Annual Statewide PASSHE Interdisciplinary Association for Philosophy and Religious Studies Conference.

Hertel, Heather (Department of Art)

- (2011-2013) Gallery Representation, Glass Growers Gallery, Erie, Pa.
- (2013) Conference attended: SOFA: Sculptural Objects and Functional Art Conference, Chicago, IL.
- (2013) Juror, Ellwood City Arts Festival, Ellwood City, Pa, July 2013.

Koziara, Kortnee (Department of Biology, major) and Stacy Hrizo (Faculty Advisor, (Department of Biology)

(2014) were awarded for the project, Examination of Fermentation Activity in TPI Mutant Yeast.

Description: The purpose of this project is to examine the activity of the mutant TPI enzymes during alcoholic fermentation in the yeast, Saccharomyces cerevisiae (Table 1). As we have observed different rates of growth in our TPI mutant yeast, we expect to find different levels of alcohol production in our TPI mutants. Our hypothesis is that the expression of mutant TPI in yeast will result in reduced TPI enzyme activity and this will in turn reduce production of ethanol.

Leight, Joanne (Department of Physical & Health Education)

- (2013) Google Teacher Academy, Google Certified Teacher. Chicago, IL (One of 50 educators worldwide to be selected to receive training to become a Google Certified Teacher.), July, 2013.
- (2013, February) *Using iPads in Physical Education*. Fayetteville, AK. Conducted six-hour workshop for health and physical education teachers in Fayetteville and Bentonville School Districts.

Leight, Joanne and Martin Donahue (Physical & Health Education Department) (2013, November) *Technology Hands On Workshop*. Pennsylvania State Association of Health, Physical Education, Recreation and Dance State Convention, Valley Forge, PA. Half-Day Workshop.

Lynch, Jeremy (Department of Special Education), Danielle Dulick (Early Childhood/Special Education major), and Adelaide Aukamp (Early Childhood major) (2014) conducted a research project, I-THINK: A framework for improving mathematical problem solving.

Summary: In response to the new Common Core State Standards for Mathematics, many school systems are demanding an increase in discourse and reasoning within mathematical problem solving. The I-THINK problem-solving framework supports these new requirements by encouraging students to analyze a problem individually and cooperatively, consider solution strategies, monitor their efforts, and justify their solution. The purpose of this study is to investigate whether the use of the I-THINK framework, implemented in three mathematics classrooms across grades two, three and four, leads to improved problem

solving abilities. Furthermore, we aim to examine the problem solving performance of various sub-groups of students including student with disabilities, students who are English language learners, and those receiving Title 1 services. This study will utilize a nonequivalent control group design consisting of a pre-assessment, a six-week instructional cycle, and a post-assessment. The study will contribute to the fields of mathematics and special education research. This research project is being supported by a \$4567 faculty/student research grant from the Office of the Provost .

Lynch, Jeremy (Department of Special Education), Carmine DeCarlo (Department of Early Childhood/Elementary Education), and Geraldine Jenny (Department of Early Childhood/Elementary Education) (2013) conducted collaborative research project, SRU College of Education Professor Protégé Program.

Summary: This collaborative research project utilized a mixed methods design (survey and face-to-face interviews) to understand the effectiveness of the Professor Protégé Program on the recruitment and retention of incoming freshmen to the SRU College of Education. The Professor Protégé Program was developed by a multidisciplinary committee in the College of Education. The goal of the program is to recruit and retain high-quality high school students to enroll in one of the College of Educations teacher preparation programs. The program focuses on creating and maintaining a personal mentoring relationship between a faculty member in the College of Education and a first-year freshmen. Protégés work alongside faculty members in a variety of endeavors ranging from community service projects to scholarly research.

Lynch, Sararose and **Jeremy Lynch (Department of Special Education)** (2014) conducted a research project, Preservice Elementary Teachers' Understandings of Mathematical Discourse.

Summary: This collaborative research project with faculty from Slippery Rock University and Westminster College utilized a qualitative interview design to understand how the student teaching experience influenced pre-service special educators' understanding of mathematical discourse in grades K through four.

Melago, Kathleen (Department of Music) (2014)

- (2012-2013) was named Mu Phi Epsilon International Music Fraternity District Director of the Year, 2012-2013.
- (2014) Dr. Jennifer Laubenthal, Assistant Professor of Clarinet at Eastern New Mexico University will be on campus to present a clarinet master class and to perform in a recital with Dr. Kathleen Melago of Slippery Rock University on March 12, 2014. (Dr. Jennifer Laubenthal is the Assistant Professor of Clarinet at Eastern New Mexico University. She performs regularly with the Roswell Symphony Orchestra, Roswell, NM and the Southwest Symphony Orchestra, Hobbs, NM. She performed as a soloist with the Mercer Community Band in Mercer, Pennsylvania and the Lima Area Concert Band in Lima, Ohio. She presented papers and performed at regional and international conferences, and was one of three judges for the Research Competition at the 2012 *Clarinetfest* in Lincoln, Nebraska. As recitalist, she has performed throughout the United States. She particularly enjoys performing twentieth century music and has commissioned and premiered many new works for the clarinet.)
- (2014) "Six World Premieres for Flute and Clarinet" – Flute and Clarinet Duo Recital – Eastern New Mexico University – Portales, NM (January 2014).
- (2014) Dr. Jennifer Laubenthal of Eastern New Mexico University and Dr. Kathleen Melago commissioned six works for flute and clarinet and premiered them in January 2014 at Eastern New Mexico University in Portales, NM. The pieces are:
 - o *Fantasy on Colombian-Andean Folk Rhythms* (2013) by German Alberto Parada A.;
 - o *Five Thoughts on Vitality* (2013) by Sean Hamilton;
 - o *Fantasia Dance for Flute and Clarinet* (2013) by Benjamin Williams;
 - o *Evocation for Flute and Bb Clarinet* (2013) by Stephen Barr;
 - o *Algonquin Visions* (2013) by Daniel Perttu;
 - o *Tamburitza Dances* (2013) by G. Kahkonen.

Morrice, Rebecca (Department of Theatre)

- (2012) designed the costumes for the SRU Theatre Department productions of *View of the Dome* (2012).
- (2012) designed the costumes for the SRU Theatre Department productions of *Importance of Being Earnest*.
- (2012) Designed the costumes for Unseam'd Shakespeare Company's 2012 productions of *Shakespeare in the Raw: A Midsummer Night's Dream and Two Gentlemen of Verona*.
- (2013) designed the costumes for the SRU Theatre Department productions of *Bloody Bloody Andrew Jackson*.
- (2013) designed the costumes for the SRU Theatre Department productions of *Good Night Desdemona, Good Morning Juliet*.
- (2013) designed the costumes for the SRU Theatre Department productions of *Richard III*.

Paradis, Lia (Department of History)

- (2013) Center for Excellence in Teaching and Educational Technologies (CETET) grant. Attended 3 day workshop in Colorado Springs, CO sponsored and conducted by Reacting to The Past, Barnard College, and the Rocky Mountain RTTP Consortium.
- (2013) Vice President, Midwest Conference on British Studies.

Skeele, David (Department of Theatre) (2014) is serving as an editorial consultant for Gale Research's Shakespearean Criticism series, specifically the volume focusing on Shakespeare's PERICLES, PRINCE OF TYRE.

Smith, Kimberly (Department of Exercise and Rehabilitative Sciences), Barbara Billek-Sawhney (School of Physical Therapy), and S. Ihlenfeld (2013) were awarded \$4,146.00 for the research project, The impact of a 10,000 step program on school aged children and their families at the Butler YMCA.

Solomon, Nanette Kaplan (Department of Music) (2013) recorded the piano music of Mana-Zucca at the Performing Arts Center at Seton Hill University, Greensburg, PA for an upcoming CD release on the prestigious Albany Record label.

Westman, Barbara (Department of Art) (2014)

- (2013) The Presidential International Professional Development Grant recipient, April 2013.
- (2014) Co-organizer of the "Experiment. Student and Faculty International Collaboration".
- (2014) A co-organized International Fibers Conference will take place at AFA in Gdansk, June, 2014. International, regional artists, as well as students will participate.
- (2014) Faculty sponsor for student Andres Rincon project "Absence Architecture". Project was awarded a grant (Grant for Student Scholarly, Creative, Entrepreneurial, Civic or Research Project Research).
- (2014) PASSHE Exhibition at the Dixon Center, Harrisburg, February – April 2014. The prints of Advanced Printmaking students Leah Zakowitz and Sean McDonald, were selected for the student art exhibition at the Dixon center. Other schools participating: Cheney, East Stroudsburg, Indiana, Kutztown, Mansfield and Shippensburg.
- (2014) Juror for the 90th Scholastic Art & Writing Awards for the Pittsburgh Arts Region. January/February 2014.

Zeiger, Benjamin P. (Department of Philosophy, major)

(2013) was awarded the 3rd place prize for best student research papers for his "God and Forgiveness: A Critique" at the 26th Annual Statewide PASSHE Interdisciplinary Association for Philosophy and Religious Studies Conference.

Rock Research Expo

Frequently Asked Questions

1. What is the Rock Research Expo?

The Rock Research Expo (RRE) is an annual newsletter that keeps our campus informed of the scholarly endeavors and potential research opportunities for faculty and students.

2. Why is it important to participate?

The Rock Research Expo aims to share, across disciplines throughout campus, new knowledge being gained through both faculty and student research. Additionally, the RRE serves to promote academic communication, collaboration, and a success-driven environment of learning for faculty and students.

3. What types of submissions are appropriate?

- ❖ Recent publications by faculty members and current students,
- ❖ Research projects and grant acquisition information (title, authors, brief introduction),
- ❖ Recent presentations, performances, and exhibitions by faculty and students.

4. How do I submit my information?

Faculty and students (with faculty letter of support) may submit their information via email to: rockresearchexpo@sru.edu.

5. When is the deadline to submit?

Submission deadline for the newsletter is February 21.

6. When will the next issue be published?

The newsletter is published annually after spring break.

7. How should I cite my submission?

Use whatever citation format is standard for your field of study. A short abstract may be included, if desired.

Please make sure to include the name of your department. See the example below.

Amodei, M. (Department of Elementary/Early Childhood Education), Jalongo, M.R., Myers, J., Onchwair, J. & Gargiulo, R.M. (2013). Survey of publication outlets in early childhood education: Descriptive data, review processes, and advice to authors. *Early Childhood Education Journal*, 41(2), 115-123.

Still have questions? Contact one of the RRE board members listed on Page 2.