



Rock Research Expo 2015

# Rock Research Expo 2015

## From the Provost



The *Rock Research Expo* (RRE), now in its sixth year, highlights the impressive accomplishments of Slippery Rock's faculty in the areas of research, publications, presentations, performances and exhibitions. The creation of new knowledge is a key element of this process, and, as provost, I am impressed by the caliber, depth, and quality of research at Slippery Rock. In all its forms, research adds to the scholarship and professionalism of the University and we are proud of the collaboration and learning that occurs on our campus.

Faculty scholarly engagement is an index of creativity and intellectual dynamism which carries through to the classroom in very real ways, to the benefit of our students. It promotes enduring academic interaction and collaboration, which are hallmarks of our mission and strategic initiatives. *Rock Research Expo* is featuring an impressive number of presentations, performances and exhibitions this year, and you will surely find topics of interest and challenge. I extend my sincere congratulations to all faculty and students who participated in these projects, and to the dedicated board members who make the newsletter possible.

*Best regards,  
Philip Way  
Provost*

## Aims, Scope, and Policies

**T**HE **aims** of the Rock Research Expo (RRE) are to serve 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.

The **scope** of this newsletter is:

- 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 research related activities on campus.

And the **policies** we follow are:

- 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.

### IN THIS ISSUE:

- Aims, Scope, and Policies
- Feature
- Recent Publications
- Recent Presentation/ Performances/Exhibitions
- Recent Research Activities
- FAQ



## High Performance Computing in the Classroom



Bryan Learna, a CS major, attended SC11 with Dr. Valentine. The picture shows the two building SRU's LittleFe educational cluster. Bryan went on for a Masters in CS and is currently working at the Pittsburgh Supercomputer Center.

**Feature Story** In a recent interview with Dr. David Valentine, Interim Dean of the College of Business, he elaborated on the importance and various connections he has discovered between new knowledge, academic conferences, and classroom curricular innovations. He shared his various insights about High Performance Computing (HPC) with the editors of *Rock Research Expo*.

### Parallel and High Performance Computing

In 2009, Dr. Valentine attended the Technical Symposium on Computer Science Education (SIGCSE) where he heard Dr. Michel Wrinn of Intel vigorously challenge a group of academics with the claim about their company: "Intel is not going back to single core architecture. The world has gone parallel, and it is high time you started teaching your students parallel programming." His challenge proved prophetic as even today's cell phones are dual core (meaning they contain two processors on a single chip) and today's desktop computers are at least quad core... (page 3)

## Recent Research Activities

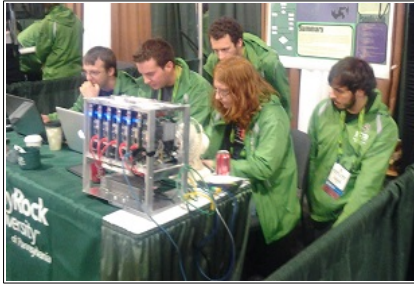
Several faculty members have reported their recent and ongoing research activities. Some are supported via different research grants

- **Katsafanas, Jodi (Department of Special Education)** (2015) **Research project:** Supporting Cultural Reflection. Principal investigator Dr. Jodi Katsafanas along with Professor Protoge, Erika Paris. Collecting data on the effect of culturally responsive teaching in the college classroom on instructional strategies implemented by 16 student teachers during their spring 2015 classroom teaching in Mexico City, Mexico.
- **Mondal, Sunita and Roger Solano (School of Business)** "Analysis of 2012 Census of Agriculture Data." Center for Rural Pennsylvania 2015 Research Grant (\$15,000). **Synopsis:** Researchers Dr. Sunita Mondal and Dr. Roger Solano will use Census of Agriculture data to conduct quantitative and qualitative analyses of farmers and farm operations in Pennsylvania. The research will examine farmers' characteristics based on demographics, farm ownership and farming practices, and identify and analyze changes in farming operations, farm profitability, and labor.
- **Pease-Hernandez, Christine (Department of Communication)** (2014) "American College Students' Perception of Foreign-Born Faculty. Faculty/Student Research Grant Program 2014-2015 (\$4,589).
- Schnupp, R. and **Sarah Kuehn (Department of Criminology and Criminal Justice)** (2015) "Students' attitudes towards punishment and their perception of re-offending rates." SRU Faculty and Student Research Grant (\$ 4,968). Undergraduate students: T. Shay and N. Roessler. **Abstract:** Much research has centered on exploring the effect that education has on students' attitudes.

## FEATURED STORY

# High Performance Computing in the Classroom

Continued from page 1



The sc12Team shows SRU's first Student Cluster Competition team at SC12; they brought home a special judges' award for "Best Comprehension". The LittleFe is in the foreground.

08:25 Yet, most college classes had been treating introductory programming students to lesson plans emphasizing single core processing. Professor Valentine accepted the challenge and his primary research agenda for more than five years has been in discovering and implementing ways to teach Parallel and Distributed Computing (PDC) and/or High Performance Computing (HPC) in the SRU undergraduate curriculum.

Innovation and change takes

work. Dr. Valentine first had to seek out training for himself. He attended various workshops provided by professional organizations such as NCSI, XSEDE, ACM SIGCSE, and others. Dr. Valentine found that both Intel and NVIDIA provided excellent training materials with their products that aided his learning.

## HPC at SRU

Fortuitously, Dr. Valentine's self-education work coincided with his professional society's revised curricula recommendations. In 2013, the ACM/IEEE curriculum for Computer Science elevated PDC to its own knowledge area, placing it on the same level as more recognized topic areas such as programming, networking, and operating systems. Because of the ongoing research in PDC at SRU, the program adapted to the new professional recommendations easily.

In fact, SRU had already placed into the curriculum a new capstone course in Parallel Programming.

In 2011, Dr. Valentine secured a "LittleFe Buildout" Award, allowing he and an SRU student to attend the international Supercomputing Conference (SC) where they built a pedagogical cluster computer for classroom use at SRU. For background on why this invention is important, the fastest computer in the world contains about 3.1 million cores and uses just under eighteen megawatts of electricity. The LittleFe is a teaching cluster of only twelve cores and is small enough to check as airline luggage. In case readers have been wondering about the unusual name of the Award and teaching computer, LittleFe means "little iron" using the translation of "Fe" from the Periodic Table. The new system is little iron to pay homage to the old mainframe computers that were first called "Big Iron" in the past.

**That year the competition involved using the LittleFe to solve the Traveling Salesman Problem for 10K cities. Although our Genetic Algorithm was not fast enough to claim the raw speed prize, our students came home with a special judge's award for Best Comprehension.**

In 2012, Dr. Valentine returned to the Supercomputing Conference (SC) with both his new knowledge and a host of SRU students. He was also an invited speaker for the "Educator's Track" and a coach for SRU's first Student Cluster Team. Dr. Valentine proudly reports of the results of this conference by summarizing that, the: "That year the competition involved using the LittleFe to solve the Traveling Salesman Problem for 10K cities. Al-

though our Genetic Algorithm was not fast enough to claim the raw speed prize, our students came home with a special judges award for Best Comprehension." Bolstered by their award, Dr. Valentine and the students returned with confidence to the SC conference in 2013. He continues: "This time the contest was to design and build the best computer cluster that (a) costs under \$2500.00 and (b) uses fewer than 15 amps. Our students excelled, missing the big

cost/performance prize by a mere two cents to a team from the larger PhD-granting Arizona State University."

Fully secure in their knowledge and confident of their skills, the SRU team was accepted for an unprecedented third consecutive year for the 2014 SC conference. But, budgetary shortfalls forced the cancellation of the competition.

## FEATURED

# High Performance Computing in the Classroom

Continued featured story



Anthony Christie was the first student administrator of the rack cluster. He went on for a PhD in computer science at the Univ of Hawaii.

Dr. Valentine has also used his knowledge to work with fellow faculty members. In 2012, he joined with colleagues Athula Herat and Manuel Valera, both from Physics, to present a workshop entitled HPC for the Liberal Arts at SRUs fall Professional Development Day. The goal was to encourage even more faculty colleagues to use SRUs newly ac-

quired HPC equipment in their own research agendas and to expedite ongoing conversations with faculty about this issue.

Dr. Valentine is proud that he won a grant that allows his students to build the departments first ever rack-based computer cluster, utilizing servers rescued from the campus surplus stream.

**“This time the contest was to design and build the best computer cluster that (a) costs under \$2500.00 and (b) uses fewer than 15 amps. Our students excelled, missing the big cost/performance prize by a mere two cents to a team from the larger PhD-granting Arizona State University.”**

In the Fall of 2014, a student team coaxed nearly 200 billion floating point operations per second (200 GFlops) from the new machine. For illustration, a mere twenty years ago, such computing power would have been noted as the fastest computer on the planet.

## HPC Outside SRU

In 2011, Dr. Valentine won the initial prize from the Intel Academic Community for Teaching Parallelism with his project entitled, “Making Parallelism Nifty.” This prize initiated an ongoing relationship with Intel. Dr. Valentine has served as their corporate curriculum development speaker for the 2013 SISCSE and for a series of online webinars on teaching parallelism. For more information, set your browser at: <http://software.intel.com/en-us/intel-education-offerings>.

In 2013, Dr. Valentine was also invited to submit his work

on the introductory programming sequence to CsinParallel at: <http://serc.carleton.edu/csinparallel/modules/MonteCarloSimulation.html>.

The CsinParallel project is an NSF-funded introduction to parallel programming intended to jump-start the undergraduate curriculum. This project produces discrete project modules that professors may drop into standard CS courses to give students experience in parallel programming. In 2013, the Los Alamos Laboratory invited Dr. Valentine to participate in their NSF grant on Supercomputing Challenge (SCC), a successful, long running project.

In the Fall of 2014, by invitation from the IEEE Technical Committee on Parallel and Distributed Computing (TCPP), Dr. Valentine presented his SRU work at the international EduHPC Technical Program, as part of the SC14 conference.

## Summary

Teaching HPC and PDC at Slippery Rock University has positioned the program to easily adapt to the latest curricular recommendations. Dr. Valentine’s enthusiasm for conference participation and new knowledge is contagious. There has been a direct positive result for our students as well. Valentine reveals that: “Students tell me their HPC experience is often the primary focus of job interviews. I have to say though, that the best part has just been how much fun Ive had digging into an area I originally didnt know all that much about, and acquiring the kit that allows our students to engage in one of the cutting edge areas of our discipline.”

Dr. Valentine’s work with Parallel and High Performance Computing reveals how well research, new insights, curricular change, and fun can combine when one actively pursues new developments from within their field of study. ■

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## RECENT PUBLICATIONS

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The recent publications as reported by faculty members

Antracoli, Alexis, Steven Duckworth, **Judith Silva (Bailey Library)**, and Kristen Yarmey (2014) “*Capture All the URLs: First Steps in Web Archiving.*” *Pennsylvania Libraries: Research & Practice* [Online] 2(2): 155-170. Web. 2 Mar. 2015.

**Abstract:** As higher education embraces new technologies, university activities including teaching, learning, and research-increasingly take place on university websites, on university-related social media pages, and elsewhere on the open Web. Despite perceptions that “once it’s on the Web, it’s there forever,” this dynamic digital content is highly vulnerable to degradation and loss. In order to preserve and provide enduring access to this complex body of university records, archivists and librarians must rise to the challenge of Web archiving. As digital archivists at our respective institutions, the authors introduce the concept of Web archiving and articulate its importance in higher education. We provide our institutions’ rationale for selecting subscription service Archive-It as a preservation tool, outline the progress of our institutional Web archiving initiatives, and share lessons learned, from unexpected stumbling blocks to strategies for raising funds and support from campus stakeholders.

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Biddle, Virginia S., John Kern, David A. Brent, **Mary A. Thurkettle (Department of Nursing)**, Kathryn R. Puskar, and Kathleen Sekula (2014). “*Student assistance program outcomes of students at risk for suicide: Drug and alcohol policy violations and suspensions.*” *Journal of School Nursing*, Sage Publications 30(3): 173-186. DOI: 10.1177/1059840514525968.

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**Chen-Gaffey, Aiping (Bailey Library)** (2014) “*Managing Vendor Records for Monographic E-Collections at a Medium-Sized Academic Library.*” In: *Cases on Electronic Records and Resource Management Implementation in Diverse Environments*. Ed. Janice Krueger. IGI Global, 22-40.

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**Cooke, Colleen (Department of Parks and Recreation)** (2014) “*Therapeutic recreation and the 12-steps.*” *American Journal of Recreation Therapy* 12(3): 17-24.

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**Cooke, Colleen A. and M. Elizabeth Ke-**

**meny (Department of Parks and Recreation)** (2014) “*Student perspectives on the impact of service learning on the educational experience.*” *Schole: A Journal of Leisure Studies and Recreation Education* 1: 102-111.

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**Cooklin, Katherine (Department of Philosophy)** (2014) “*Consent and the Epistemology of Ignorance: Inequality and the Construction of the Female Body.*” In: *Women Past and Present*. Ed. Maria Zina Gonçalves de Abreu and Steve Fleetwood. Cambridge Scholars Press. Summer, 2014.

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Dudney, Donna, **Benjamas Jirasakuldech (School of Business)**, Thomas S. Zorn, and Riza Emekter (2015) “*Do Residual Earnings Price Ratios Explain Cross-Sectional Variations in Stock Returns?*” *Managerial Finance* 41(7) (July 2015).

**Abstract:** Variations in P/E ratios are explained in a rational expectations framework by a number of fundamental factors, such as differences in growth expectations and risk. We use a regression model and data from four sample periods (1996, 2000, 2001, and 2008) to separate the E/P ratio into two parts - the portion of E/P that is related to fundamental determinants and a residual portion that cannot be explained by fundamentals. We use the residual portion as an indicator of over or undervaluation; a large negative residual is consistent with overvaluation while a large positive residual implies undervaluation. We find that stocks with larger negative residuals are associated with lower subsequent returns and reward-to-risk ratio, while stocks with larger positive residuals are associated with higher subsequent returns and reward-to-risk ratio. This pattern persists for both one and two year holding periods.

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Emekter, Riza, Yanbin Tu, **Benjamas Jirasakuldech (School of Business)**, and Min Lu (2015) “*Evaluating Credit Risk and Loan Performance in Online Peer-to-Peer (P2P) Lending.*” *Applied Economics* 47(1): 54-70.

**Abstract:** Online Peer-to-Peer (P2P) lending has emerged recently. This micro loan market could offer certain benefits to both borrowers and lenders. Using data from the Lending Club, which is one of the popular online P2P lending houses; this paper explores the P2P loan characteristics, evaluates their credit risk, and measures loan performances. We find that credit grade, debt to income ratio, FICO score, and revolving line utilization

play an important role in loan defaults. Loans with lower credit grade and longer duration are associated with high mortality rate. The result is consistent with the Cox Proportional Hazard test which suggests that the hazard rate or the likelihood of the loan default increases with the credit risk of the borrowers. Lastly, we find that higher interest rates charged on the high risk borrowers are not enough to compensate for higher probability of the loan default. The Lending Club must find ways to attract high FICO score and high income borrowers in order to sustain their businesses.

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Fortner, Howard A., Jeanette M. Salgado, Angelica M. Holmstrup, **Michael E. Holmstrup (Department of Exercise and Rehabilitative Science)** (2014) “*Cardiovascular and metabolic demands of the kettlebell swing using a Tabata interval versus a traditional resistance protocol.*” *International Journal of Exercise Science* 7(3): 179-185.

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Dai, Mengyan and **Xin Jiang (Department of Criminology and Criminal Justice)** (Forthcoming) “*A Comparative Study of Attitudes toward the Police in the US and Australia.*” *Australian & New Zealand Journal of Criminology*. Online First doi: 10.1177/0004865814545684.

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Peguero, Anthony A. and **Xin Jiang (Department of Criminology and Criminal Justice)** (2014) “*Social Control across Immigrant Generations: Adolescent Violence at School and Examining the Immigrant Paradox.*” *Journal of Criminal Justice* 42(3), 276-287.

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**Jirasakuldech, Benjamas (School of Business)** and Riza Emekter (2015) “*Foreign Investors’ Trading Behavior in Response to Crisis: Evidence from Thailand.*” *International Research Journal of Applied Finance* 6(1) (January 2015): 1-36.

**Abstract:** This paper examines the trading behavior of foreign investors in Thailand and its impact on the country’s stock market and currency value during January 1, 1975 to August 31, 2009. We also investigate if the trading strategy of foreigners has changed during the 1997 financial crisis, 2004 Tsunami crisis, and 2006 and 2008 political crisis. For the entire sample period, foreign investors were the net purchaser of Thai equity and implemented positive feed-back investment trading strategy, while domestic investors were the net sellers with a contrarian investment strategy. Their trading behaviors do not change during the financial and tsunami turmoil and 2006 political upheaval in Thailand. These crises do not scare foreign investors out of Thailand. It was the trading activities of domes-

tic individual investors that destabilized the stock market of Thailand during the 1997 Asian financial crisis. The trading activities of all investors cause a major destabilizing effect on Thai equity during the 2008 political crisis, particularly individual investors exert the strongest destabilizing effect. There is no evidence of price-destabilizing effect during the 2004 Tsunami crisis. Destabilizing effect on Baht currency value caused by the trading activities of domestic individual and institutional investors were not found in any of the financial, tsunami, and political crises. Only did the trading activities of foreigners cause the baht to devalue during the 1997 Asian financial crisis.

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Peguero, Anthony A. and **Xin Jiang (Department of Criminology and Criminal Justice)** (2015) “*Male and Female Perceptions of An iPad-based Digital Literacy Curriculum.*” *Journal of Educational Multimedia and Hypermedia* 24(1): 23-41. (Forthcoming)

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**Flynn, Thomas R. (Department of Communication)** (2015) “*What Profiteth Baseball: Sports Marketing, the Extended Self, and the Opening of Jacobs’ Field.*” In upcoming volume *There Used to be a Ballpark*. Eds. G. Gumpert and S. Drucker. NY: Peter Lang Publishing. (In Press.)

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**Falso, Paul G. (Department of Biology), C.A. Noble, J.M. Diaz, T.B. Hayes** (2015) “*The Effect of Long-term Corticosterone Treatment on Blood Cell Differentials and Function in Laboratory and Wild-caught Amphibian Models.*” *General and Comparative Endocrinology* 212: 73-83.

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Fredericq, S., N. Arakaki, O. Camacho, D. Gabriel, **Krayesky, D.M. (Department of Biology), S. Self-Krayesky, G. Rees, J. Richards, T. Sauvage, D. Venera-Ponton, and W.E. Schmidt** (2014) “*A Dynamic Approach to the Study of Rhodoliths: a Case Study for the Northwestern Gulf of Mexico.*” *Cryptogamie Algologie* 35: 77-98.

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**Harry, Joseph C. (Department of Communication)** (2014) “*Journalistic Quotation: Reported Speech in Newspapers from a Semiotic-Linguistic Perspective.*” *Journalism: Theory, Practice and Criticism* 15 (November 2014): 1041-1058.

**Abstract:** This research uses the semiotic theory of American pragmatist Charles S. Peirce (1839-1914), in addition to recent linguistic theory regarding the concept of subjectification, to show how reporters’ use of different kinds of direct-through-indirect quotation modes provides a means of the journalist’s own creative intervention

into news stories, while still furthering the long-standing goal of journalistic objectivity. The idea is that reporters take original source views (“simple subjectivity”) and, via direct-through-indirect quotation modes, “creatively reformulate” them into what can be thought of as “complex subjectivity.” In this way, journalists intervene into news stories by using significantly reformulated language - for example, by linguistically transforming direct into indirect quote-modes - demonstrating the reporter’s own subjectivized(though not subjective) take on what was originally stated by a source, but still reformulating the quotes in ways that accurately and thus objectively render original-source statements and thoughts. On the semiotic level, the article demonstrates that three basic quote modes direct, free-indirect, and standard indirect - conform to Peirce’s icon, index, and symbol, respectively. Implications of this semiotic subjectivization for journalistic practice are then considered in the article’s conclusion - specifically, the idea that what journalists end up producing, through the semiotic-linguistic ‘re-voicing’ process, can be theorized as propositional reassertion. In this manner, the journalist objectively transforms original-speaker statements while maintaining only “limited liability” for their accuracy.

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**Hilton, Jason T. (Department of Secondary Education/Foundations of Education)** (2015) “*The Power of Silent Discussion.*” *AMLE Magazine* 2(6): 29-31.

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**Hilton, Jason T. (Department of Secondary Education/Foundations of Education)** and Joseph Canciello (2015) “*Male and Female Perceptions of An iPad-based Digital Literacy Curriculum.*” *Journal of Educational Multimedia and Hypermedia* 24(1): 23-41.

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**Katsafanas, Jodi (Department of Special Education)** (2014) “*Pathways to Developing Interculturally Aware Teachers.*” *Pennsylvania Teacher Educator* 13: 47-54.

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**Liu, Wenhao, Randall Nichols, and Traci Zilifro (Physical and Health Education Department)** (2013) “*Comparison and Comparability: Fitness Tracking Between Youths With Different Physical Activity Levels.*” *Measurement in Physical Education and Exercise Science* 17: 295-309.

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Norris, J.N. and **David M. Kravesky (Department of Biology)** (2014) “*Caloglossa (Ceramiales; Delesseriaceae) pp. 218221, fig. 105.*” In: *Marine Algae of the Northern Gulf of California, II: Rhodophyta*, Smithsonian Contributions to

*Botany* 96: 845 pp., 351 pls.

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Kravesky, David M. and Jerry G. Chmielewski (Department of Biology)

**Kravesky, David M. and Jerry G. Chmielewski (Department of Biology)** (2014) “*Arundinaria gigantea: New to Pennsylvania.*” *Rhodora* 166 (966): 228-231.

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**Kuehn, Sarah (Department of Criminology and Criminal Justice)**, John Yarnell, and **David R. Champion (Department of Criminology and Criminal Justice)** (2014) “*Restorative Justice and Victim Empathy in Juveniles: A Study of a Restorative Justice Program in a Northeastern Pennsylvania County.*” *International Journal of Criminology & Sociology* 3: 377-387.

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and J. Vosgerau (2014) “*Summary Report: Sender Receiver Game with Parolees and Non-Parolees.*” Submitted to the Wyoming and Butler County Courts of Common Pleas, PA.

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Lloyd, Jesse, Kristin A. Evans, Kristy Zerfass, **Michael Holmstrup (Department of Exercise and Rehabilitative Science)**, Jill A. Kanaley, and Stefan Keslacy (2015) “*Effect of an acute bout of aerobic exercise on chemerin levels in obese adults.*” *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*. In Press.

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**Melago, Kathleen A. (Department of Music)** (2014) “*Strategies for Successfully Teaching Students with ADD or ADHD in Instrumental Lessons.*” *Music Educators Journal* 101(2) (December 2014): 37-43.

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**Melago, Kathleen A. (Department of Music)** (2014) “*Making Your Personal Professional Network Stronger Through PCMEA.*” *PMEA News* 79(2) (Winter 2014): 54-55.

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**Melago, Kathleen A. and Jennifer Laubenthal. (Department of Music)** (2014) “*Planning Recitals from Across the Country.*” *National Association of College Wind and Percussion Instructors (NACWPI) Journal* 62(4) (Summer 2014): 8-9.

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**Mondal, Sunita (School of Business)** and Jacqueline Horrall (2014) “*Regional Supplier Associations as the Producer of Transitional Public Goods in Latin America and the Caribbean Utility Markets.*” *International Journal of Economics*

1(4) (July 2014): 58-69.

**Abstract:** There is growing the consensus that regional regulatory agencies provide regional club goods, however; there is little evidence of the impact of the collaborations of the utility providers themselves in the literature. Our study analyzes whether regional networks such as the Caribbean Electric Utility corporation contribute to solving energy issues in Latin America and the Caribbean. Networks of operators provide cross-border services, and operating as a single entity improves the lobbying opportunities of operators to influence policy. Results suggest that utilities that formed linkages or cooperation regionally are likely to benefit from such collaborations, but a comprehensive approach to capacity building and reform is needed to address the regions energy issues.

**Mondal, Sunita and Diane D. Galbraith (School of Business)** (2014) *“Comparing the Academic Success of Community College Transfer Students versus Traditional Four Year Students.”* *International Journal of Academic Research in Economics and Management Sciences* 3(6) (November 2014): 184-200.

**Abstract:** According to 2014 NMC Horizon Report, the fastest growing jobs in the United States in the next 10 years will require college degrees. Community College student enrollment has already increased more than 53% over the last 20 years to attempt to meet this demand (National Association of College and University Business Officers). Some reasons for the increasing trend of students starting their post-secondary education at community colleges may include cost reduction and general preparedness for post-secondary education. Our study analyzes the characteristics of transfers versus traditional students in terms of: GPA, graduation rates and multiple demographic characteristics. This research aims at comparing the academic performance of transfer students versus traditional 4 year students at a singular university, in the areas of graduation rates, time frames and overall Grade Point Average.

Peguero, Anthony A. and **Xin Jiang (Department of Criminology and Criminal Justice)** (2014) *“Social Control across Immigrant Generations: Adolescent Violence at School and Examining the Immigrant Paradox.”* *Journal of Criminal Justice* 42(3), 276-287.

Peguero, Anthony A. and **Xin Jiang (Department of Criminology and Criminal Justice) (Forthcoming)** *“Backlash for Breaking Stereotypes: Adolescent Violence, School Victimization, and Racial and Ethnic Disparities Across*

*Contexts.* *Journal of Interpersonal Violence.* Online First doi:0.1177/0886260514564063.

Parry, Traci L., David S. Hydock, **Brock T. Jensen (Department of Exercise and Rehabilitative Science)**, Chia-Ying Lien, Carole M. Schneider, and Reid Hayward (2014) *“Endurance exercise attenuates cardiotoxicity induced by androgen deprivation and doxorubicin.”* *Canadian Journal of Pharmacology and Physiology* 92(5):356-362.

**Abstract:** Doxorubicin (DOX) is associated with cardiac dysfunction and irreversible testicular damage. Androgen deprivation therapy (ADT) is administered prior to DOX treatment to preserve testicular function. However, ADT may exacerbate DOX-induced cardiac dysfunction. Exercise is cardioprotective, but the effects of exercise on cardiac function during combined ADT and DOX treatment are currently unknown. In this study, male Sprague-Dawley rats were randomly assigned to experimental groups: control (CON), ADT, DOX, or ADT + DOX. Animals received ADT or control implants on days 1 and 29 of the 56-day protocol. Animals remained sedentary (SED) or engaged in treadmill endurance exercise (TM) beginning on day 1. On day 15, the animals received DOX at 1 mg.(kg body mass)(-1).d(-1) by intraperitoneal injection for 10 consecutive days, or an equivalent volume of saline. On day 57, cardiac function was assessed in vivo and ex vivo. Animals treated with DOX alone, or with combined ADT+DOX, showed significant ( $P < 0.05$ ) reductions in left ventricular developed pressure (-21% and -27%), maximal rate of pressure development (-29% and -32%), and maximal rate of pressure decline (25% and 31%), respectively when compared with the sedentary control animals. Endurance exercise training attenuated ( $P > 0.05$ ) cardiac dysfunction associated with combined ADT+DOX treatment, indicating that exercise during simultaneous ADT+DOX treatment is cardioprotective.

**Rehorek, Susan J. (Department of Biology)**, M. Duffy, J. Zacherl, K. Anand, R.M. Elsey, and **Timothy D. Smith (School of Physical Therapy)** (2014) *“An examination of the sensory structures in the palate of the American alligator (Alligator mississippiensis).”* *Journal of Morphology* 275(11):1312-1320. DOI:10.1002/jmor.20306. (M. Duffy, J. Zacherl, and K. Anand are undergraduate students in Department of Biology.)

Schuetz, S and **David M. Kravesky (Department of Biology)** (2014) *“A List of Bryophytes for Wayne County, Pennsylvania.”* *Evansia* 31 (1):



25-30.

Verba, Steven D., Brock T. Jensen, and Jeffrey S. Lynn (Department of Exercise and Rehabilitative Science) (2014) "Dynamic Heart Rate Response to Deer Hunting in Men and Women." *Journal of Comparative Exercise Physiology* (DOI:10.3920/CEP140012): 1-5.

**Abstract:** The purpose of the present study was to examine the heart rate response and force tension associated with deer hunting activities in men and women. Fifteen men and women (body mass index:  $25.6 \pm 5.2$  kg/m<sup>2</sup>; age:  $27 \pm 9$  years) participated in this study. Subjects performed a maximal graded exercise test (GXT) to determine maximal heart rate ( $HR_{max}$ ). Subjects completed a 0.8 km hike over typical hunting terrain. Following a short rest, subjects completed a 0.4 km drag using a fake deer weighing 56 kg (123 pounds, the weight of the average field dressed deer in Pennsylvania, USA) over similar terrain. HR was measured during the activities using a Polar Heart Rate Monitor. Force tension ( $TN_{mean}$ ) while dragging the deer was measured using a cable tensiometer. Women on average completed the 0.4 km drag course in  $13 \pm 3$  min, where men on average only needed  $6 \pm 2$  min to complete the drag. Women spent significantly more time  $\geq 85\%$   $HR_{max}$  ( $9 \pm 4$  min), than men ( $2 \pm 3$  min) during the drag ( $P < 0.05$ ). Women, on average, completed  $71 \pm 22\%$  of their drag  $\geq 85\%$   $HR_{max}$  which was significantly greater than men ( $37 \pm 36\%$ ;  $P < 0.05$ ). Throughout the drag, men and women  $HR_{peak}$  corresponded to  $90 \pm 6\%$  and  $99 \pm 7\%$ , respectively, of their measured  $HR_{max}$  via GXT ( $P < 0.05$ ). No significant difference was observed in  $TN_{mean}$  between men and women during the drag tests. The results from this study indicate that hunting includes high-intensity exercise, with a greater relative stress placed on women. Deer hunters should exercise caution and adequately prepare for the potential demands of this activity.

Susan J. Rehorek (Department of Biology), and V.B. DeLeon (2014) "Mapping bone cell distributions to assess ontogenetic origin of primate midfacial form." *Am. J. Phys. Anthropol* DOI:10.1002/ajpa.22540. (E.S. Kentzel, J.M. Cunningham, and A.E. Bruening are undergraduate students in Department of Biology.)

Tantillo, M. (Psychology major), Jennifer L. Sanftner (Department of Psychology), and E. Hauenstein (Psychology major) (2013) *Restoring connection in the face of disconnection: An integrative approach to understanding and*

*treating Anorexia Nervosa.* *Advances in Eating Disorders: Theory, Research, and Practice* 1: 21-38.

Thurkettle, Mary A. (Department of Nursing) (2014) "Data Collection in a Multicultural, Multilingual Environment." *Journal of Theory Construction & Testing* 18(1): 5-10.

Rehorek, Susan J. (Department of Biology), M. Duffy, J. Zacherl, K. Anand, R.M. Elsey, and Timothy D. Smith (School of Physical Therapy) (2014) "An examination of the sensory structures in the palate of the American alligator (*Alligator mississippiensis*)." *Journal of Morphology* 275(11):1312-1320. DOI:10.1002/jmor.20306. (M. Duffy, J. Zacherl, and K. Anand are undergraduate students in Department of Biology.)

Wang, J. and Wenhao Liu (Physical and Health Education Department) (2012) "Changes in badminton game play across developmental skill levels among high school students." *The International Council of Health, Physical Education, Recreation, Sport, and Dance Journal of Research* 7(2): 29-37.

Xu, F. and Wenhao Liu (Physical and Health Education Department) (2013) "A Review of Middle School Students' Attitudes toward Physical Activity." In L. E. Ciccomascolo & E. Sullivan (Eds.), *The dimensions of physical education* (pp. 286-295). Boston: Jones & Bartlett Learning.

Corrado, Raymond R., Sarah Kuehn (Department of Criminology and Criminal Justice), and Irina Margaritescu (2014) "Policy issues regarding the over-representation of incarcerated Aboriginal young offenders in a Canadian context." *Youth Justice* 14(1): 38-60.

**Abstract:** Over-representation of visible minority youth in youth prisons is evident in most advanced industrial and liberal democratic countries. In Canada, federal and provincial governments have initiated policy strategies to counteract the over-representation of Aboriginal offenders. One critical national initiative, the 2003 Youth Criminal Justice Act (YCJA), explicitly acknowledges the special status of Aboriginal youth. The current study examines (1) whether the YCJA has reduced the over-representation of Aboriginal young offenders in prison, and (2) whether the risk factor and offence profiles of incarcerated Aborig-

inal young offenders differ from Caucasian young offenders. Policy implications for Canada and other countries are discussed.

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**Zane, Linda (Department of Elementary Education and Early Childhood Education)** (2015) *“Pedagogy and Space: Design Inspirations for Early Childhood Classrooms.”* Redleaf Press, St. Paul, MN.

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**Zieg, Michael J. (Department of Geography, Geology, and the Environment)** (2014) *“Petrologic Evolution of a Nipigon Diabase Sill, Ontario, Canada: Insights from Compositional and Textural Profiles.”* *Economic Geology* 109: 1383-1401.

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**Zieg, Michael J. (Department of Geography, Geology, and the Environment)** and L.W. Markwood (2014) *“The cooling history of a simple intrusion from Nipigon, Ontario.”* *EOS, Transactions*

of the American Geophysical Union, 2014 Fall Meeting Supplement, Abstract #V51C-4774. **Abstract:** We have measured crystal sizes of oxide minerals (primarily magnetite) from a thin (1.4 m), compositionally uniform diabase sill to better characterize the relationship between thermal history and rock texture. In the outer 30 cm of the sill (upper and lower margins), crystal sizes increase from 2 to 9  $\mu$ m, and then remain nearly uniform at  $9.5(\pm 1.5)$   $\mu$ m through the central 80 cm. There is significant alteration in the lowermost 15 cm of the sill, which has largely obliterated the original oxide textures, but otherwise the textural profile is remarkably symmetrical, indicating that cooling occurred by simple conduction through the upper and lower margins. Reasonable cooling models, coupled with a simple linear crystal growth model, generate theoretical textural profiles that closely resemble the measured profile. The parameters of the growth model are consistent with experimental and observational data from a wide range of igneous bodies.

## Presentations and Ongoing Projects

Alleman, H., M. Newmark, and **Kimberly Smith (Department of Exercise and Rehabilitative Sciences)** (2014) “*The impact of temperature on physical activity levels during a 12-week walking intervention.*” Poster Presentation, Mid-Atlantic Regional Chapter of the American College of Sports Conference Medicine, Harrisburg PA. October 31-November 1, 2014.

**Barnes, Carol, Kortnee Koziara, Amber Lellock, Isaac Fisher (Biology Majors) and Stacy L. Hrizo (Department of Biology)** (2014) “*Examination of Growth Phenotypes and Protein Stability in a Saccharomyces cerevisiae Model for TPI Deficiency.*” Experimental Biology, San Diego, CA. April 25-29, 2014.

**Brewer, H. (Department of Public Health and Social Work)** (2015) “*Hookah, e-cigarettes, and vape pipes: A new look at anti-tobacco education.*” Eastern District of the Society of Health and Physical Educators (SHAPE) America, Springfield, MA. February 8, 2015.

**Cooke, Colleen (Department of Parks and Recreation - Therapeutic Recreation) and Catherine Massey (Department of Psychology)** (2014) presented “*Older LGBT individuals: How can recreational therapists address the unique needs of the growing population?*” at the Annual Slippery Rock University Therapeutic Recreation Club Workshop, Slippery Rock University. April 4, 2014.

**Cooke, Colleen (Department of Parks and Recreation - Therapeutic Recreation), B. Bevilacqua, C. Brewer, L. Coggins, S. Fuehrer, S. Henry, E. Morrison, S. Pfalzgraf, R. Searight, A. Smith, M. Snider, A. Torgerson, D. Tufaro, and M. Ullman (Therapeutic Recreation program students)** (2014) “*Rockin' Interventions.*” Presentation at the Annual Slippery Rock University Therapeutic Recreation Club Workshop, Slippery Rock University. April 4, 2014.

**Covey, William (Department of English)** (2014) “*Hitchcock's Hunger Artists in REAR WINDOW.*” 2014 Midwest Popular Culture/American Culture Association Conference. J. W. Marriott Hotel. Indianapolis, IN. October 3-5, 2014.

**Cubero, Christopher G. (Department of Coun-**

**seling and Development Department: Student Counseling Center), and M. Cappella** (2014) “*Effective Alcohol Use Prevention Education: A Comparison of Evidence-Based Interventions.*” National Association for Addiction Professionals (NAADAC): 2014 Annual Conference and 40th Anniversary Celebration, September.

**ABSTRACT:** The current research project was conducted with an SRU graduate student that received Slippery Rock Faculty Student Research grant funding as a comparison study to investigate the efficacy of 2 evidence-based prevention education programs. The study was conducted to see which program had more of an impact on the reduction of alcohol use behaviors among first-year exploratory college students. Results showed that both interventions led to a decrease in alcohol use behaviors from pre to post. However, the electronic intervention impacted heavy alcohol use patterns in participants more so than a face to face intervention. The findings led to procedures to disseminate the electronic intervention to all first-year students through FYRST-Seminar courses. Note: In addition to the above national presentation the authors are finalizing a manuscript for publication.

**Chuang, T.Y., Brock T. Jensen (Department of Exercise and Rehabilitative Sciences), M.L. Chen, W. Chung-Hsin, C.Y. Lien** (2014) “*The Effect of Medical Herbs (Danshen and Panax Ginseng) Combination on Doxorubicin-Induced Cardiotoxicity.*” Poster Presentation, World Molecular Imaging Annual Congress. Seoul, Korea, September, 2014.

**Chuang, T.Y., C.Y. Lien, M.L. Chen, Brock T. Jensen (Department of Exercise and Rehabilitative Sciences), D.S. Huang, S.E. Wang, C.H. Hsu, C.H. Huang, W. Chung-Hsin** (2014) “*Declined Cardiac Function Causes Aerobic Exercise Impairment in the R6/2 Mice of Huntington's Disease.*” World Molecular Imaging Annual Congress. Poster Presentation, World Molecular Imaging Annual Congress. Seoul, Korea, September, 2014.

**DeNicola, Dean M. (Department of Biology) and Amber J. Lellock (Department of Biology Major)** (2014) “*Nutrient limitation of periphyton in streams along an acid mine drainage gradient.*” Joint Aquatic Sciences Meeting, Portland, OR. May 2014.

**Falso, Paul G. (Department of Biology), C.A.**

Noble, L. C. Adame, S.A. Rodriguez, M.N. Nguyen, M.L. Westhead (recent student graduate Department of Biology), T.B. Hayes (2015) “*An Assessment of Stress and Immune Function in an Invasive and Native Amphibian Following Exposure to an Agrichemical Mixture.*” Society of Integrative and Comparative Biology, West Palm Beach Florida. January 3-7, 2015.

**Findler, Richard (Department of Philosophy)** (2014) “*Are All Perspectives Equal: A Nietzschean Critique of Moral Relativism.*” Presentation at the workshop- Understanding Perspectivism in Nietzsche, the 14<sup>th</sup> Conference International Society for the Study of European Ideas, Oporto, Portugal. August 4-8, 2014.

**Finver, Ethan, Jonathan Stonebraker, Rachel Hollingsworth, Kathryn Yacobucci (Biology Majors), and Stacy L. Hrizo (Department of Biology)** (2014) “*Examining Egg Laying Circadian Rhythm Phenotypes in a Glycolytic Mutant Fly Model.*” Experimental Biology, San Diego, CA. April 25-29, 2014.

**Flynn, Thomas R. Flynn (Department of Communication)** (2014) “*Grounding the Present in the Past: Why Baseball Needs Wrigley Field.*” National Communication Association Convention, Chicago, November 2014.

**Flynn, Thomas R. Flynn (Department of Communication)** (2014) “*Beyond Deep Throat: The MPAA, Secondary Effects and the Marginalization of the Adult Movie Theater.*” Presentation at National Communication Association Convention, Chicago, November 2014.

Goodine, Carly N., Alexandra R. Brosky, Madison A. Van Savage, Cole W. Bridge, **Steven D. Verba, Jeffrey S. Lynn, Michael E. Holmstrup (Department of Exercise and Rehabilitative Sciences)** (2014) “*Using the Think Aloud Method to Inform Skinfold Instruction in Exercise Science.*” Presentation at Mid-Atlantic Regional Chapter of the American College of Sports Medicine Conference, Harrisburg, PA- October 31, 2014.

**Hollingsworth, Rachel, Andrew Zelasco, Alex Berner, Jake Bible, Ethan Finver (Biology Majors), and Stacy Hrizo (Department of Biology)** (2014) “*Examining Fruit Flies with a Glycolytic Deficiency for Infection Susceptibility.*” PASSHE

STEM Meeting, Slippery Rock University. November 2014.

Jones, Kathryn E., Katherine M. Jones, Juliana A. Smeltz, **Brock T. Jensen, Jeffrey S. Lynn (Department of Exercise and Rehabilitative Sciences)** (2014) “*Running on Empty: A Comparison of Marathon and Ultramarathon Race Preparation.*” Mid-Atlantic Regional Chapter of the American College of Sports Medicine Conference, Harrisburg, PA- October, 2014.

**Koziara, Kortnee, Carol Barnes, Kevin Squires, Isaac Fisher (Biology Majors) and Stacy L. Hrizo (Department of Biology)** (2014) “*Examination of Enzyme and Metabolic Activity in Yeast Expressing Mutant Alleles of Triose Phosphate Isomerase.*” Experimental Biology, San Diego, CA. April 25-29, 2014.

**Krayesky, D.M. (Department of Biology), J.N. Christy (Biology Major), J.N. Norris, A.R. Brown, L.M. Betler, (undergraduate), and S. Fredericq** (2014) “*Typifications and nomenclatural issues in the Order Peyssonneliales (Rhodophyta) problems and solutions.*” Botanical Society of America 2014 Meetings at the convention center in Boise, Idaho. July 28.

**Abstract:** Peyssonnelia squamaria is a red algae that was described by Gmelin in 1768, from a collection from the Mediterranean sea. Precise location information for this sample was not indicated in the protolog. Gmelin classified this algal as a fucoid algae, namely, Fucus squamarius, then in 1842, it was reclassified by Decaisne as a red algal genus new to science. The new combination of the species became Peyssonnelia squamaria and is now the generitype of Peyssonnelia. A type sample of the species was never selected, and the collection used by Gmelin at present is accepted by many as lost. This represents a large problem in taxonomic research that has been conducted within Peyssonnelia and the Peyssonneliaceae within the last 50 years, as all studies have not looked at the type material in their revisionary research of the genus or the family. In this study we propose an epitype for P. squamaria based on a modern concept of the species utilizing anatomical and rbcL sequence data. We furthermore clarify the nomenclatural status of Sonderophycus and Sonderopelta which have been classified as genera within the Peyssonneliaceae.

Leasure, K., K. Krupack, C. Paul, and **Kimberly**

**Smith (Department of Exercise and Rehabilitative Sciences)** (2014) *“Body weight perception and contributing weight gain factors in Scandinavian and American college students.”* Poster Presentation, Mid-Atlantic Regional Chapter of the American College of Sports Medicine Conference, Harrisburg PA. October 31-November 1, 2014.

Levis, Malorie C., Jessica A. McFadden, Rebecca E. Burkart, Tyler A. Kuhn, **Michael E. Holmstrup, and Brock T. Jensen (Department of Exercise and Rehabilitative Sciences)** (2014) *“Assessment of Procedural Proficiency in Blood Pressure Measurement in Exercise Science.”* Mid-Atlantic Regional Chapter of the American College of Sports Medicine Conference, Harrisburg, PA- October, 2014.

**Liu, Wenhao, Randall Nichols, and Traci Zilifro (Department of Physical and Health Education)** (2014) *“Quality PE classes are effective intervention: How are they related to adolescents’ cardiorespiratory fitness?”* Poster session presented at 61st Annual Meeting of American College of Sports Medicine and 5th World Congress on Exercise is Medicine, Orlando, FL. May 2014.

**Liu, Wenhao and his students (Department of Physical and Health Education)** (2014) *“Chinese Yoyo and Spinning Tops.”* Practice session presented at 2013 mini-convention of Slippery Rock University Association of Health, Physical Education, Recreation and Dance, Slippery Rock, PA. April 2014.

**Liu, Wenhao (Department of Physical and Health Education)** (2014) *“Total step counts versus moderate-intensity step counts.”* Poster session presented at Research Consortium Conference of 2014 National Convention of the American Alliance for Health, Physical Education, Recreation and Dance, St. Louis, MO. April 2014.

**Liu, Wenhao (Department of Physical and Health Education)** (2014) *“Correlations between a PA log and NL-2000 PA monitor.”* Poster session presented at Research Consortium Conference of 2014 National Convention of the American Alliance for Health, Physical Education, Recreation and Dance, St. Louis, MO. April 2014.

**Liu, Wenhao, Traci Zilifro, and Randall Nichols (Department of Physical and Health Education)** (2013) *“Quality PE classes versus after-school physical activity: Which contributes to adoles-*

*cents’ aerobic capacity more?”* Poster session presented at 36th Annual Meeting of Mid-Atlantic Regional Chapter of the American College of Sports Medicine, Harrisburg, PA. November 2013.

**Liu, Wenhao, Randal A. Nichols, and Traci Zilifro (Department of Physical and Health Education)** (2013) *“Larger amount of MVPA impacts more positively on students’ body fat: tracking against HFZ.”* Poster session presented at 60th Annual Meeting of American College of Sports Medicine and 4th World Congress on Exercise is Medicine, Indianapolis, IN. May 2013.

**Liu, Wenhao (Department of Physical and Health Education), J. West, Joanne Leight, and Jeffrey Smith (Department of Physical and Health Education)** (2013) *“Early childhood intervention: Incorporating physical activity into academic learning.”* Poster session presented at 60th Annual Meeting of American College of Sports Medicine and 4th World Congress on Exercise is Medicine, Indianapolis, IN. May 2013.

**Liu, Wenhao (Department of Physical and Health Education), S.L.S. Bean, Traci Zilifro, and Jeffrey Smith (Department of Physical and Health Education)** (2013) *“Effects of after-school strength training on adolescents’ muscular strength.”* Poster session presented at Research Consortium Conference of 2013 National Convention of the American Alliance for Health, Physical Education, Recreation and Dance, Charlotte, NC. April 2013.

**Liu, Wenhao and his students (Department of Physical and Health Education)** (2013) *“Incorporating Chinese Yoyo and Shuttlecock into Your PE Program.”* Practice session presented at 2013 mini-convention of Slippery Rock University Association of Health, Physical Education, Recreation and Dance, Slippery Rock, PA. April 2013.

**Liu, Wenhao and his students (Department of Physical and Health Education)** (2013) *“Incorporating Chinese Yoyo and Shuttlecock into Your PE Program.”* Practice session presented at 2013 mini-convention of Slippery Rock University Association of Health, Physical Education, Recreation and Dance, Slippery Rock, PA. April 2013.

**Liu, Wenhao, Randall Nichols, and Traci Zilifro (Department of Physical and Health Edu-**

**cation**) (2012) *"Impact of PE physical activity levels on percent body fat: examined against healthy fitness zone."* Poster session presented at 35th Annual Meeting of Mid-Atlantic Regional Chapter of the American College of Sports Medicine, Harrisburg, PA. November 2012.

**Liu, Wenhao, Randall Nichols, and Traci Zilfro (Department of Physical and Health Education)** (2012) *"Comparison of percent body fat and BMI in tracking of body composition among adolescents."* Poster session presented at 59th Annual Meeting of American College of Sports Medicine and 3rd World Congress on Exercise is Medicine, San Francisco, CA. May 2012.

**Liu, Wenhao (Department of Physical and Health Education)** (2014) *"Field dependence-independence and youth's sports and physical activity participation."* Presentation at Shenyang University of Chemical Technology, Shenyang, Liaoning, China. June 2014.

**Liu, Wenhao (Department of Physical and Health Education)** (2014) *"Field dependence-independence and youth's sports and physical activity participation."* Presentation at South China University of Technology, Guangzhou, Guangdong, China. June 2014.

**Liu, Wenhao (Department of Physical and Health Education)** (2014) *"American Federal Government's Physical Activity Guidelines."* Presentation at South China University of Technology, Guangzhou, Guangdong, China. June 2014.

**Liu, Wenhao (Department of Physical and Health Education)** (2014) *"Field dependence-independence and competitive sports choice/performance."* Presentation at Henan University, Kaifeng, Henan, China. June 2014.

**Liu, Wenhao (Department of Physical and Health Education)** (2013) *"Field dependence-independence and youth's sports and physical activity participation."* Presentation at East China Normal University, Shanghai, China. June 2013.

**Liu, Wenhao (Department of Physical and Health Education)** (2013) *"Field dependence-independence and competitive sports choice/performance."* Presentation at Central China Normal University, Wuhan, Hubei, China. June 2013.

**Liu, Wenhao (Department of Physical and Health Education)** (2013) *"American Federal Government's Physical Activity Guidelines: Issues and Challenges."* Presentation at Wuhan Sports University, Wuhan, Hubei, China. June 2013.

**Liu, Wenhao (Department of Physical and Health Education)** (2013) *"American Federal Government's Physical Activity Guidelines: History and Future."* Presentation at Jiangnan University, Wuhan, Hubei, China. June 2013.

**Liu, Wenhao (Department of Physical and Health Education)** (2013) *"American Federal Government's Physical Activity Guidelines: History and Future."* Presentation at Wuhan University of Technology, Wuhan, Hubei, China. June 2013.

**Liu, Wenhao (Department of Physical and Health Education)** (2013) *"American Federal Governments Physical Activity Guidelines: History and Future."* Presentation at Wuhan University of Technology, Wuhan, Hubei, China. June 2013.

Levis, Malorie C., Jessica A. McFadden, Rebecca E. Burkart, Tyler A. Kuhn, **Michael E. Holmstrup, Brock T. Jensen (Department of Exercise and Rehabilitative Sciences)** (2014) *"Assessment of Procedural Proficiency in Blood Pressure Measurement in Exercise Science."* Presentation at Mid-Atlantic Regional Chapter of the American College of Sports Medicine Conference, Harrisburg, PA. October 31, 2014.

**Massey, Catherine J., Emily J. Keener (Department of Psychology), J.S. McGraw, M. Seymour, and S. Habraken (Psychology major)** (2014) *"Body Image Perceptions and Behaviors: Comparison of Heterosexual and Gay/Bisexual Communities."* Poster presented at the Gender Development Research Conference, San Francisco, CA. October 2014.

**Melago, Kathleen (Department of Music)** (2015) *"The Music Methods Competency Examination: A Benchmark Assessment for Teacher Candidates."* International Symposium on Assessment in Music Education, Williamsburg, VA. February 19, 2015.

**Melago, Kathleen (Department of Music)** (2015) *"Mastering the Music Education Job Search."*

National Association for Music Education Eastern Division Conference, Providence, Rhode Island. April 10, 2015.

**Melago, Kathleen (Department of Music)** (2015) *"Using Technology to Improve Learning and Engagement in Music."* National Association for Music Education Eastern Division Conference, Providence, Rhode Island. April 10, 2015.

**Melago, Kathleen (Department of Music)** (2015) *"Simple Ways to Use Technology to Improve Learning & Engagement in Music."* Pennsylvania Music Educators Association Annual Conference, Hershey, PA. March 27, 2015.

**Melago, Kathleen (Department of Music)** (2014) *"The Big 4-0"*, Flute Recital. Slippery Rock University of Pennsylvania, Slippery Rock, PA, October 21, 2014. Included world premiere of Childhood Suite. Childhood Suite (2014) by Kathleen Basi, Premiered October 21, 2014, at Slippery Rock University in Slippery Rock, Pennsylvania.

**Nichols, Randall, Traci Zillifro, and Wenhao Liu (Department of Physical and Health Education)** (2012) School physical education programs and children's cardiovascular fitness tracking. Poster session presented at 59<sup>th</sup> Annual Meeting of American College of Sports Medicine and 3rd World Congress on Exercise is Medicine, San Francisco, CA.

**Nichols, Randall, Traci Zillifro, and Wenhao Liu (Department of Physical and Health Education)** (2012) *"Effect of MVPA time on fitness outcomes: Two schools' Comparison."* Paper presented at Research Consortium Conference of 2012 National Convention of the American Alliance for Health, Physical Education, Recreation and Dance, Boston, MA. March 2012.

**Ridener, Rebecca and Sarah Kuehn (Department of Criminology and Criminal Justice)** (2015) *"A longitudinal study of students attitudes towards punishment."* Paper presented at the Annual Meeting of the Academy of Criminal Justice Sciences, Orlando, FL. March 2015.

**Sanftner, Jennifer L. (Department of Psychology), and M. Tantillo (Psychology major)** (2013) *"The Reflections Body Image Program: Effectiveness of a student led program for challenging beauty standards on a college campus."* Poster pre-

sented at the International Conference on Eating Disorders, Montreal, Canada. May 2013.

**Abstract:** Research has documented that levels of body dissatisfaction and disordered eating behaviors are high on college campuses. The Reflections Body Image Program (RBIP) was developed to improve body image and reduce disordered eating in college students. The RBIP is a peer-led program that seeks to empower women by challenging sociocultural ideals of thinness and beauty. Previous research has shown the RBIP to result in improved body image and reduced disordered eating behaviors in sorority women who completed the program. The current research examines whether the program is effective when implemented via student groups outside the sorority system. Participants were 82 women, recruited for the program through student organizations. They completed two 2-hour sessions of the RBIP. Questionnaires addressing body dissatisfaction, restrained eating, eating disorder attitudes and behaviors, fat talk, and sociocultural attitudes towards appearance were administered prior to Session I and following Session II. Paired Samples T-Tests compared responses from Pre to Post. Participants reported decreased body dissatisfaction, restrained eating, eating disorder attitudes and behaviors, internalization of sociocultural ideals, and use of fat talk. All differences are significant at the  $p < .05$  level. After completing the program, college women reported measureable changes in attitudes and behaviors about their bodies and towards food and eating. These results support the use of the RBIP on a college campus and contribute to the growing body of research on the program.

**Schnupp, R. and Sarah Kuehn (Department of Criminology and Criminal Justice)** (2014) *"Attitudes of Undergraduates Towards Criminal Justice Issues."* Presented at the Pennsylvania Association of Criminal Justice Educators, Lock Haven. PA, 2014.

**Seymour, M. (Psychology major), Emily J. Keener, Catherine J. Massey (Department of Psychology), and J.S. McGraw (Psychology major)** (2014) *"Minorities within Minority Groups: A Descriptive Study of Body Dissatisfaction in the Trans Community."* Poster presented at the Gender Development Research Conference, San Francisco, CA. October 2014.

**Squires, Kevin, Isaac Fisher (Biology Majors), and Stacy Hrizo (Department of Biology)** (2014) *"Determining the Effects of TPI Deficiency Causing Mutations on TPI Enzyme Activity."* PASSHE STEM Meeting, Slippery Rock University, November 2014.

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**Tantillo, M (Psychology major), Jennifer L. Sanftner (Department of Psychology), and E.J. Hauenstein (Psychology major)** (2013) "*Partnering with patients and families to develop an innovative multifamily therapy group treatment for adults with anorexia nervosa.*" Poster presented at the International Conference on Eating Disorders, Montreal, Canada. May 2013.

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**Tuten, Eric (Department of History)** (2015) has accepted the special invitation of The Schusterman Center for Israel Studies at Brandeis University (BU) in Waltham, MA, to participate on a panel as part of a symposium to be held at BU on April 19, 2015. The title of the panel is "Integrating Film and Culture in the Teaching of Israel." In extending this invitation to Dr. Tuten, the scholars at The Schusterman Center stated: "We believe your insights and comments will be valuable in advancing the discourse we aim to create with this symposium."

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**Verba, Steven D., Brock T. Jensen, and Jeffrey S. Lynn (Department of Exercise and Rehabilitative Sciences)** (2014) "*Heart Rate Response and Force Production in Men and Women Performing Deer Hunting-Associated Activities.*" Presentation at American College of Sports Medicine Annual Meeting, Orlando, FL, May 2014.

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**Vosgerau, J. and Sarah Kuehn (Department of Criminology and Criminal Justice)** (2014) "*Accuracy of Morality Judgments.*" Presented at the European Marketing Academy, Valencia, Italy, 2014.

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**Wang, J., Wenhao Liu, and Wei Bian (Department of Physical and Health Education)** (2012) "*Relationship between perceived and actual motor competence among college students.*" Paper presented at Research Consortium Conference of 2012 National Convention of the American Alliance for Health, Physical Education, Recreation and Dance, Boston, MA. March 2012.

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**Watson, T., Christopher G. Cubero (Department of Counseling and Development: Student Counseling Center), and R. Bateman** (2013) "*Gambling Among Rural College Students.*" National Center for Responsible Gaming 14th Annual Conference, September.

**Abstract:** The current research project was funded by Adagio Health, Inc. who contracted with Slippery Rock University to investigate the gambling behaviors of SRU

students. Data collected was used to determine prevalence and to differentiate between non-gamblers, gamblers and problem gambling. The goal was to use the findings to support educational programming on campus. Over 1700 SRU students were surveyed regarding their gambling practices. Game playing, card playing and sports betting were among the most prevalent gambling behaviors with the highest frequency of activity. About a quarter of the sample had at least one gambling activity in their lifetime and close to 7% had a potential for problem gambling. Males and athletes showed higher prevalence for problem gambling rates, which led to further analyses that indicated a mean difference between non-athletes and two groups, athletes and club sport participants. Note: In addition to the above national presentation the authors are finalizing a manuscript for publication.

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**Zillifro, Traci, Wenhao Liu, and Randall Nichols (Department of Physical and Health Education)** (2014) "*Prediction of 20-meter PACER performance from body fat percent in seventh graders.*" Poster session presented at 61st Annual Meeting of American College of Sports Medicine and 5th World Congress on Exercise is Medicine, Orlando, FL. May 2014.

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**Zillifro, Traci, Wenhao Liu, and Randall Nichols (Department of Physical and Health Education)** (2013) "*Health-related fitness tracking in extreme quartiles among adolescents.*" Poster session presented at Research Consortium Conference of 2013 National Convention of the American Alliance for Health, Physical Education, Recreation and Dance, Charlotte, NC. April 2013.

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**Zillifro, Traci, Wenhao Liu, and Randall Nichols (Department of Physical and Health Education)** (2012) "*Odds ratios and sex differences in staying in at-risk fitness categories among middle school children.*" Poster session presented at 59<sup>th</sup> Annual Meeting of American College of Sports Medicine and 3<sup>rd</sup> World Congress on Exercise is Medicine, San Francisco, CA. May 2012.

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**Zillifro, Traci, Wenhao Liu, and Randall Nichols (Department of Physical and Health Education)** (2012) "*Childhood BMI stability and gender differences: A three-year study.*" Poster session presented at Research Consortium Conference of 2012 National Convention of the American Alliance for Health, Physical Education, Recreation and Dance, Boston, MA. March 2012.

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**Westman, Barbara (Department of Art)**



- (2015) Three fiber artists exhibition scheduled for July 15 - August 8, at The Baltic Sea Cultural Center, Gdansk, Poland.
- (2015) Accepted for the 14th Lessedra International Mini Print Annual, Sofia, Bulgaria. June 11 - August 31.
- (2015) "Tree" Co-organized and co-wrote the program of the International Fibers Studio Collaboration between SRU and Academy of Fine Arts, Gdansk, Poland. Exhibition of artworks created by students and faculty will take place in June - July, 2015 at the Artur's Mansion Gallery, part of Gdask Archipelago of Culture.
- (2015) "6 × 6" 2015, Rochester Contemporary Art Center, Rochester, NY
- participation in an exhibition with students in the Advanced Printmaking class. June 6-July 12.
- (2015) Accepted for the juried international printmaking exhibition: Bibliotheca Alexandrina International Biennale for Miniature Graphics, Alexandria, Egypt. April 28-June 1.
- (2015) Co-organizer of the Global Images of U.S. Women event (on behalf of the Martha Gault Art Society), together with The Know Art Project and Gender Studies at SRU. The program includes the exhibition of the international postcard art created by non-American women, a lecture and a workshop by Tavia La Follette, PhD. SRU campus. March 30-April 1.
- (2015) Accepted for the international juried printmaking exhibition: "Incisioni al Femminile", 2015 Edition, Atelier Controsegno, Napoli, Italy. March 8-March 28.
- (2015) As the Center for Public Humanities Advisory Board member I co-organized a multi-departmental student project. Project in all departments involved research of the original WWI propaganda posters. Students in my Advanced Printmaking class created their own contemporary propaganda posters. This research concluded with the "Act Now! Rallying for The Cause - WWI and Today" exhibition at Martha Gault Art Gallery, March, 2015. I co-curated this exhibition.
- (2015) Faculty sponsor of a student research project presented at the 2015 SRU Symposium for Research, Scholarship, and Creative Achievement. Student Delaney Munnal, research project director.
- (2015) Student achievement: Kate Fitzgerald's monotype created in my Advanced Printmaking class was selected for the national juried student exhibition at the Curry College, MA, organized by the Monotype Guild of New England.
- (2015) Selected to be a juror for the 2015 Scholastic Art and Writing Competition, Pittsburgh region. Over 1800 artworks were submitted from high school students in area.
- (2014) accepted for the prestigious international juried fiber art show, the 8th International Fiber Art Biennale "From Lausanne to Beijing", Beijing - Nantong, China.
- (2014) Faculty show at Martha Gault Art Gallery, SRU.
- (2014) "Ode to Water", group exhibition at The Baltic Sea Cultural Center, Gdansk, Poland.
- (2014) Faculty sponsor of a student research project presented at the 2014 SRU Symposium for Research, Scholarship, and Creative Achievement.
- (2014) Grove City College Gallery, group art exhibit by invitation, Grove City, PA
- (2014) "Generation Y in the Studio; The Teaching Challenges." Presented at the International Fiber Arts Conference, Academy of Fine Arts, Gdansk, Poland.
- (2014) "Experiment" - Co-organized and co-wrote the program of the International Fibers Studio collaboration between SRU and Academy of Fine Arts, Gdansk, Poland. Both studios students and faculty exhibited at the Academy of Fine Arts gallery in June. The article about this collaboration was published by Fiber Art Now (USA) and The Nordic Textile Art (Sweden).
- (2014) "Experiment" - student and faculty group exhibition at Refectory Gallery, Kartuzy, Poland.
- (2014) "6 × 6" 2014, Rochester Contemporary Art Center, Rochester, NY
- participation in an exhibition together with students in the Advanced Printmaking class.
- (2014) solo exhibition, printmaking , STUDIO2504, West Virginia University, WV.
- (2014) SRU Art Faculty group exhibition, Gallerie, Erie, PA.

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Typeset in L<sup>A</sup>T<sub>E</sub>X by Dr. Ahmad Shahidi

### 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 [rockresearchexpo@sru.edu](mailto:rockresearchexpo@sru.edu)

#### 5. When is the deadline to submit?

Submission deadline for the newsletter is February 27.

#### 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.