



## Rock Research Expo 2022

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### The Scope of RRE includes:

- Recent publications of faculty members and students (title, authors, and optional abstract)
- Recent research projects and grant acquisitions (title, authors, brief description)
- Recent conference presentations, performances, and exhibitions of faculty members and students
- Announcements of research related activities

## WELCOME

### Aim

The aim of the Rock Research Expo (RRE) is 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, RRE:

- Shares new knowledge of different disciplines on campus
- Provokes students' interests and curiosity in knowledge exploration
- Promotes long term academic communication and collaboration on campus, and most importantly
- Develops a success-driven environment of learning for faculty members and students

### The Policies of RRE are:

- Anyone can submit his or her 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

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## FEATURE STORY

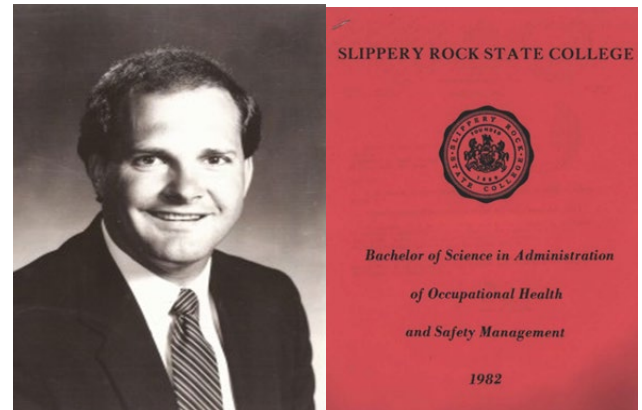
### Safety Management:

### The “New” Kid on the Block

Over 50 years ago, in the spring of 1970 the Nixon Administration was feeling the pressure from both the public and lobbyists for improved working conditions and better protections for the environment. The results from this movement resulted in several notable pieces of legislation called the Occupational Safety and Health Act (OSH Act, 1970) as well as the Clean Air Act. The continued regulatory trajectory would cumulate with the passing of the Clean Water Act, becoming law 2 years later in 1972. These legislative actions put in motion the clear need for better trained safety professionals who could understand the multitude of regulations and manage the seemingly daunting compliance requirements. More importantly, these new safety professionals would need to understand the value of protecting workers and the financial aspects of safety on a company’s bottom line.

On the campus at Slippery Rock University in 1978, Dr. George Mihalik was working as a new professor and recent doctoral graduate, teaching in the Health Science Dept. At this time, Dr. Mihalik was tasked by school administration to create a Bachelor of Science Degree in Safety Management. The university administration envisioned a strong need for this “New” degree based on a study published by NIOSH (National Institute of Occupational, Safety and Health). In their study, NIOSH projected that the current supply of safety management graduates would not meet the demand for the foreseeable future. Dr. Mihalik took this information and set out to create the first Safety Management degree that would be uniquely different from other state schools offering similar degrees. In 1978, nearby schools offering safety degrees were Millersville University and IUP, which at the time, were founded on the technical aspects of the safety profession. Diametrically, the proposed Safety Management degree at Slippery Rock University would emphasize management principles and concepts and

prepare students to become management leaders in the workplace.



*Photo 1: Dr. George Mihalik ---1982*

*Photo 2: Safety Program proposal submitted by Dr. George Mihalik -1981*

In 1978, Dr. Mihalik put pen to paper and submitted his proposal for a degree titled “Administration of Occupational Health and Safety Management”. The degree was approved in February 1982, and more importantly during spring commencement of the same year awarded to the first three graduates (Bill Gilbert, Don Leonard and Tom Bolen). These first three faithful students, with only the assurances from Dr. Mihalik, were taking classes for a degree that didn’t officially exist yet!

In 1988, Dr. Mihalik was selected as head football coach at Slippery Rock University. After ten years of developing the safety program and experiencing continued growth within the major he realized the need for someone solely focused to chair and set the program on a course for continued success. In 1989, Dr. Mihalik recruited Dr. Joseph Cali as Chairperson of the Safety Management program. Prior to arriving at Slippery Rock University, Dr. Cali served as Director of Safety for the City of Pittsburgh. His education and wealth of experiences would be an invaluable addition to the safety management program. More importantly, the primary benefactors would be the hundreds of future safety management students attending his insightful lectures predicated on real-world topics.

Today, (2022) The Safety Management program has graduated over 2266 students since its inception in 1982. Alumni who graduate from the program have tremendous

employment rates with very competitive starting salaries. The alumni of the Safety Management program go on to work for companies across multiple disciplines including insurance, construction, manufacturing, transportation, healthcare, automotive, oil and gas, to name just a few. The students who graduate from the Safety Management Program often use their Safety Management degrees as a springboard into higher positions within their organizations. The understanding and application of the Safety “Management” concept allows safety graduates to advance their careers and make the upward corporate transition easier. These are the same Safety “Management” concepts stressed and refined by Dr. Mihalik almost 50 years ago.

Today, the Safety Management program continues to grow substantially. Starting with one (Dr. Mihalik in 1978) to now a department totaling eleven. The current student enrollment, as of the writing of this article, stands at approximately 410 students. The faculty of the program bring diverse and extensive experiences as experts and being best-in-class in their chosen fields of study. Notably, these fields and backgrounds include: OSHA compliance, insurance, construction, oil and gas, manufacturing, energy and healthcare. All of the faculty in the Safety Management Department bring multiple years of work experience prior to their arrival and beginning their teaching careers at Slippery Rock University. The link provided is the current staff of the Safety Management Department as well as some of their current biographies.

<https://www.sru.edu/academics/colleges-and-departments/cob/departments/safety-management/faculty-and-staff>

Along the way, the Safety Management Program has had some great faculty who made their lasting indelible marks on the program and on the students who attended their lectures. Ms. Wilma Cavill, Mr. Dan Sherwin, Mr. Bill Smith, all made lasting impacts on the Safety Management program and on the lives of their students. In 2020, the Strain Safety Building, home of the Safety Management Program completed a major renovation project. What was once an auditorium within the building, now stands a high bay lab with multiple hands-on

industrial simulators. These simulators include applications that before were only read about by students in textbooks. The Safety Management students now use and experience real-world equipment and their application before they enter the workforce. The equipment used by the students is a direct result of several key partnerships with premiere industrial leaders and suppliers. Some of these partnerships include companies like: MSA, New Pig Inc., Firefighter Sales and Service, Rockford Systems, Kokosing Inc. TSI Inc., and SKC Inc. The program also receives tremendous support from past alumni and faculty who have either donated equipment or contributed to the program financially.



*Photo 3: New High-lab laboratory with state-of-the-art industrial simulators*

Undoubtedly, the Safety Management Program at Slippery Rock University has been designed and positioned for future success. From beginnings in 1978, to the completions of the Strain Safety Building renovations in 2020, the impact the program has made on the lives of students and on their successes is incalculable. Since 1987, the program has evolved and changed along with business, society and as the world has changed. These changes have been continually incorporated into the curriculum and coursework to ensure students are best prepared to address the workplace challenges presented to them after graduation. However, the foundational belief and premise that’s instilled in all Safety Management students remains steadfast, as it was 50 years ago. As safety professionals, “Our challenge is

to ensure the safety of workers, to make sure workers go home the same way they arrived at work”.

-Dr. Joseph Cali.

For more information on the Safety Management Program, please see the link or contact the department at your convenience.

<https://www.sru.edu/academics/colleges-and-departments/cob/departments/safety-management>

## RECENT PUBLICATIONS

**Asher, J. (Department of Mathematics and Statistics)** (April 2022). Infusing DEI learning into an elementary statistics class (pp. 2). Alexandria, VA: *Amstat News*. 538.

**Asher, J. (Department of Mathematics and Statistics) & Goodrick, A.** (2022). Case study: using COVID-19 data in a community-engaged elementary statistics class. *Proceedings of the IASE 2021 Satellite Conference* (vol. 12, pp. 5). The Hague: International Association for Statistics Education.

### *Abstract/Synopsis:*

Because it utilizes a combination of high impact practices—a collaborative project, service learning, and undergraduate research—the use of a community-engaged framework within an undergraduate introductory statistics course can improve educational outcomes for distance learners. During the Fall of 2020, because the usual community-engaged approach of having students partner with a community organization to collect and analyze data was not feasible, we used a recently released dataset on coping mechanisms during the COVID-19 pandemic. Students participated in an analysis of those data in order to inform policymaking within the university regarding support for students during the pandemic. Similar outcomes in terms of improved understanding of and attitudes toward statistics were achieved through this approach as had been achieved through community-engaged projects in previous semesters. Moving to a distance learning format within the pandemic has required rethinking how these components of community-engaged learning can be preserved. This case study shows that similar learning outcomes can be achieved despite the limitations the pandemic places on learning.

**Champion, D.R. (Department of Criminology and Criminal Justice)** (2021). Integral Meta-Theory and Spiral Dynamics: The Jeffrey Epstein case as an example of the pathological orange meme. *Academia Letters*. Article 4485. [direct link](#)

Covey, W. (Department of English) (2022). Book Review of *Noir Affect*. Christopher Breu and Elizabeth A. Hatmaker, Eds. *Historical Journal of Film, Radio, and Television*, 41(3), 578-580.

De Genna, N. M., Willford, J. A. (Department of Psychology), & Richardson, G. A. (2022). Long-term effects of prenatal cannabis exposure: Pathways to adolescent and adult outcomes. *Pharmacology Biochemistry, and Behavior*, 214, 173358, <https://doi.org/10.1016/j.pbb.2022.173358>

Dolan, E. A. (Department of Strategic Communication and Media), Fleming, B. L., Keppel, D. P., & Covert, J. M. (Singapore Institute of Management, Communication Department) (2022). *Sandwich with a side of motivation: An investigation of the effects of the feedback sandwich method on motivation*. Paper presented at the 2022 IAFOR International Conference on Education and published in the 2022 Conference Proceedings of the IAFOR International Conference on Education

*Description:*

The “feedback sandwich” method involves placing corrective feedback between two positive statements. Although it has been argued that this method is an effective means of delivering feedback to students because it seemingly makes constructive feedback more pleasant, there exists limited empirical research to support this claim. Receiving feedback from instructors has implications for a host of perceptual and behavioral variables for students. The limited body of empirical research on the feedback sandwich method provides evidence that while this method is associated with perceived usefulness and effectiveness (e.g., Davies & Jacobs, 1985), its use may not influence subsequent performance. This study examines the effects of feedback sequencing on motivation using an experimental design in a sample. Results indicate the feedback sandwich method had no effect on self-reported motivation levels. Results are discussed regarding their applied and theoretical implications.

Dolan, E. A. (Department of Strategic Communication and Media), Keppel, D. P., Covert, J. M. (Singapore Institute of Management, Communication Department), Brittany L. F. (2022). *An empirical investigation of feedback sequencing on emotion regulation processes*. Paper presented at the 2022 IAFOR International Conference on Education and published in the 2022 Conference Proceedings of the IAFOR International Conference on Education

*Description:*

The effects of receiving feedback on course assessments have emotional implications for students (e.g., Ryan & Henderson, 2018) that extend to motivation and behavior (Boud & Falchilvov, 2007). Receiving negative feedback, then, may have harmful effects on students’ emotions, motivation, and performance. A way in which students’ emotions may be regulated is through employing the “feedback sandwich”. The method focuses on variability in feedback ordering, and specifically holds that “sandwiching” constructive feedback in between two positive statements is the most effective way to deliver negative feedback to students. While widely discussed in the popular press, there exists little empirical research on the effectiveness of method, and to date, only one study has examined the effects of the feedback sandwich on emotion regulation. This study presents an empirical test of the effects of feedback sequencing on emotion regulation. Results indicate that the sandwich method did not influence either positive or negative emotion. Results are discussed in light of their theoretical and applied implications for feedback sequencing.

Dolan, E. A. (Department of Strategic Communication and Media) & Fleming, B. L. (2022). *Maintaining and framing: A multi-method examination of award-winning student newspaper tweets*. Paper presented at the annual meeting of the Association for Education in Journalism and Mass communication (AEJMC) and published in *College Media Review* (2022; vol. 59)

*Description:*

The current study examined how award-winning student newspapers used social media to maintain relationships with their audiences. We employed quantitative methods

to examine 26,388 tweets for the presence of relational maintenance strategies. We then employed a qualitative analysis to understand how tweets featuring high levels of these strategies attracted audience engagement. Findings suggest that student newspapers employ relational maintenance strategies in their posts. Within each of these strategies, we identified patterns in the types of tweets that attracted high levels of user engagement. Broadly, our findings suggest that these strategies should not be centered on maintaining the relationships between audiences and newspapers, but instead should be centered on maintaining relationships between audiences and their university communities. We use these findings to propose a list of social media best practices for student newspapers and advisors.

**Forrest, J. Y. (Department of Accounting Economics Finance) & Liu, Y (Jiangnan University, China) (2021).** *Value in Business - A Holistic, Systems-Based Approach to Creating and Capturing Value*. Springer, New York, ISBN: 978-3-030-82897-4.

*Synopsis:*

The objective of this book is of two folds. First, it attempts to provide marketers, managers and entrepreneurs with a scientific tool of analysis to assist them with decision making, while knowing that their decisions are mostly reliable. Second, it offers scholars with a brand-new approach to exploring opportunities of value creation and capture. Instead of data- and anecdote-based analysis, this book accomplishes this practically significant and theoretically important objective by establishing results based on systems science and a logical reasoning that is parallel to that commonly used in mathematics and natural science. By employing such an approach, all limitations of econometric methods can be avoided.

This book is composed of six parts, addressing various key issues related to value creation and capture. The first part introduces the basics of systems science necessary for the rest of this book, develops a general theory on how a market of free competition evolves and how the resource-based theory of the firm can be established through axiomatization. The second part, entitled

Demand- and Supply-Side Strategies, looks at the supply-chain ecosystem of a firm, how its upstream and downstream affect a firm's performance, and when synergetic innovations, involving, for example, simultaneous utilities and multi-sided markets, appear. The third part explores how to generalize the well-known Porter's value-chain framework by first investigating the systemic structure of the mind, how consumers classify product information, how value can be created out of innovation and resources and captured along with memberships in strategic networks and blocks.

The fourth part, entitled Customer Values, examines when effective consumer value propositions (CVPs) emerge, how CVPs can lead to values and competitive advantages, and why market-sensing capability is vitally important to firm performance. The fifth part, entitled Some Roles of Manufacturing and Artificial Intelligence, addresses why manufacturing is important in the present transformation of industries and how artificial intelligence affects technological innovations. The sixth part, entitled Government Policies and Supports, looks at such questions as how the government can help stimulate economic growth and when government policies can lead to improvements in firm performance. As the conclusion of this book, the afterword, entitled Need for A Multi-Approach Methodology and Economic Induction, fills several important methodological holes that emerge throughout the book and outlines the next steps for future research based on what has been established here.

The existent literature on value creation and capture is mostly dominated by data and/or anecdote analysis. Although such works establish potential facts and provide managerial suggestions, consequent decisions have been time and again shown to be problematic. That surely is one of the reasons why one magnificent success in a particular value-related effort cannot be readily copied to another effort, although various conjectures or theories have been developed to explain how the initial success appeared. That is the very reason why this book opens up a brand-new territory valuable for scholarly research and practical decision-making, while providing reliable managerial recommendations that are expected to produce real-life benefits.

This book aims particularly at graduate students, researchers, and practitioners in areas related to the creation and capture of value. By referencing to what this book presents, the reader will be able to employ systems methods and holistic thinking to resolve various demanding issues in his/her life and career. By masterfully employing the systemic intuition – the yoyo mode, he/she will be able to make decisions fairly swiftly without unnecessarily spending other resources of limited availability.

**Forrest, J. Y. (Department of Accounting Economics Finance)**, Novikov, D. A. (Russian Academy of Sciences), **Larson, S (Department of Information Systems)**, Wang, F. (Central Washington University), & Yang, J. (State University of New York at Oneonta,) (2021). Competitive advantages and values created and attained out of well-crafted customer value propositions. *Studies in Business and Economics Journal*, 16(2), August 2021, 53 – 73.

*Abstract:*

To help facilitate the development of a theoretically rigorous and practically useful theory of customer value propositions (CVP), as called for repeatedly by the extant literature, this paper establishes a game-theoretic theorem regarding the dynamics of market competition and potential market entry. On top of this result and by employing logical rigor and analytical reasoning, eight generally true facts are developed without suffering from the constraints of data- and anecdote-based approaches, as widely used in the literature. In particular, these established results reveal how a newly adopted CVP is associated with the three essential processes underlying a company's operation, how it will be pivotal for the company to attain competitive advantages, how the value added by adopted CVPs can be determined, etc. At the end, recommendations for decision-making managers and entrepreneurs and potential questions for future research are provided.

**Forrest, J. Y. (Department of Accounting Economics Finance)**, Hafezalkotob, A. (Islamic Azad University, Iran), Ren, L. (University of Houston – Victoria, TX), Liu, Y (Jiangnan University, China), & **Tallapally, P. (Department of Accounting Economics Finance)** (2021). Utility and optimization's dependence on decision-makers' underlying value-belief systems. *Review of Economic and Business Studies*, 14(2), 125-149.

*Abstract:*

This paper investigates how a consumer's utility and relevant optimization of the utility function are fundamentally and exclusively determined by the person's natural endowments – self-awareness, imagination, conscience and free will. To accomplish this end, the focus of this research is on such general utility of an individual that it is an explicit function in the dollar value of consumption, the number of hours spent on waged work and the person's particular system of values and beliefs. Since the third variable is categorical and mostly not known to others, we examine its following particular values: (1) the system positively values the consumption of commodities while seeing waged job negatively; (2) the system believes in minimal commodity consumption; (3) the system demands a non-standard method of optimization. Among others, this paper uncovers properties regarding how an individual's marginal utility of commodity consumption and that of waged work vary respectively with the income from non-waged sources, the number of hours spent on waged work, hourly wage rate, additional savings, unit commodity price, and expense on leisure. Most importantly, this paper demonstrates that when an individual decides on how much commodity is to be consumed and how much labor output is to be supplied to waged work by maximizing the corresponding utility, the person's utility and his/her method of optimization are exclusively defined by his/her value-belief system.

**Forrest, J. Y. (Department of Accounting Economics Finance)** (2021). Infinity, where some of the key concepts of analysis start to fall apart. *Pure Mathematics and Applied Mathematics*, 37(4), 379-393.



**Abstract:**

This paper studies the concepts of actual and potential infinities by addressing whether or not they are different from each other. After constructing an example that shows how these concepts can and do lead to different answers, we look at the impacts of assuming either that they are the same or that they are different. Then, we turn our attention to checking how the current state of affairs of modern mathematics unconsciously applies both of these two assumptions simultaneously depending on which one is needed to produce desired conclusions. Based on the discussions of this paper, we pay a new visit to the Berkeley and Russell's paradoxes and find that the shadow of the former paradox still presently lingers, while the latter is nothing but simply a self-contradictory proposition and a fallacy.

**Ford, M. (Department of History)** (2022). *A Brick and a Bible: Black Women's Radical Activism in the Midwest during the Great Depression*. Southern Illinois University Press, 2022. The publisher's webpage: <http://www.siupress.com/books/978-0-8093-3855-9>

**Getsay, H., and Chen-Gaffey, A. (Library Department)** (2021). Understanding COUNTER 5 metrics in context: a case study on vendor database usage reports. *Journal of Electronic Resources Librarianship*, 33(2), 92-104. <https://doi.org/10.1080/1941126x.2021.1911450>

**Jazaei, R. (Department of Physics and Engineering), Karakuzian, M., O'Toole, B., & Gharehdaghi, S.** (2022). Energy dissipation capacity of cementitious nanocomposite reinforced by hybrid carbon nanotubes. *Construction and Building Materials*, 323(14 March 2022), 126396

**Abstract:**

Nanomaterials have a significant effect on the construction industry in terms of modifying concrete properties. However, accelerated microcracks due to brittle nature of cement paste cause low energy absorption in cement-based composites. Carbon nanotubes (CNTs) are promising materials to address this problem if not all. The main objective of this experimental investigation is to assess the effect of

reinforcing cement-based composites with the low dosage of functionalized (COOH group) hybrid carbon nanotubes (single-walled and multi-walled carbon nanotubes). A Field Emission Electron Microscope (FESEM) was used to evaluate the morphology of the composite and CNTs' bridging effect in the cement matrix. The results indicated the composite incorporating the 0.4 wt% Hybrid CNTs showed the highest increase in the energy absorption and improved the failure mechanism by decreasing the crack propagation and debris spatter.

Link:

<https://www.sciencedirect.com/science/article/pii/S095061822000903?dgcid=author>

**Joo, B.-K. (Department of Management and Marketing), Park, S., & Lee, S.** (2021). Personal growth initiative: The effects of person-organization fit, authentic leadership, and work empowerment. *International Journal of Manpower*, 42(3), 502-517. <https://doi.org/10.1108/IJM-02-2020-0056>

**Kemeny, B. (The Recreational Therapy Program), Burk, S., Hutchins, D. (The Recreational Therapy Program), & Gramlich, C. (Storm Harbor Equestrian Center)** (2021). Therapeutic riding or mindfulness: comparative effectiveness of two recreational therapy interventions for adolescents with autism. *Journal of Autism and Developmental Disorders*, <https://doi.org/10.1007/s10803-021-05136->

**Kemeny, B. (Department of Parks, Conservation, and Recreational Therapy), & DeVries, D.** (Sept 2021). COVID-19 and the role of recreational therapists in LTC. *ATRA Research Institute* abstract.

**Kovacs, I. (Department of Physical health and Education), McClinton, A., & Liu, W. (Department of Physical health and Education)** (2021). Developing Muscular Power vs. Muscular Endurance: Results from Two Different Push-ups Training Programs. *Research Quarterly for Exercise and Sport*, 92(Sup1), A-26-A-27. DOI: [10.1080/02701367.2021.1898195](https://doi.org/10.1080/02701367.2021.1898195)

**Kovacs, I. & Liu, W. (Department of Physical health and Education)** (2021). Exercise Stages and Health-Related Fitness in Young Adults. *Research Quarterly for Exercise and Sport*, 92(Sup1), A-62-A-63. DOI: [10.1080/02701367.2021.1898195](https://doi.org/10.1080/02701367.2021.1898195)

**Liu, W. & Kovacs, I. (Department of Physical health and Education)** (2021). Discriminant Analysis: Can Perceived Barriers to PA Differentiate Exercise Levels? *Research Quarterly for Exercise and Sport*, 92(Sup1), A-38. DOI: [10.1080/02701367.2021.1898195](https://doi.org/10.1080/02701367.2021.1898195)

**Liu, W. & Kovacs, I. (Department of Physical health and Education)** (2021). Exercise Engagement and Perceived Barriers to Physical Activity. *Research Quarterly for Exercise and Sport*, 92(Sup1), A-39-A-40. DOI: [10.1080/02701367.2021.1898195](https://doi.org/10.1080/02701367.2021.1898195)

**Losko, J. & Smeak, R. (Department of Safety Management)** (2022). Understanding Safety Communications and the Impacts on the Safety Professional. *The Safety Professionals Handbook*. pg 1-15.

**McDermott, K. M. (Department of Mathematics and Statistics)** (2022). On the topology of groups of type Z. *Topology and its Applications*, 307(15 February 2022), 107767.

This paper introduces a new method for constructing higher dimensional objects called manifolds. Using the method, McDermott constructs a new infinite family of manifolds.

<https://www.sciencedirect.com/science/article/pii/S0166864121001814>

**Melago, K. (Department of Music)** (2021) Social emotional learning & music teacher education: an important relationship. *PMEA News*, 86(1) (Fall 2021), 37-40.

**Micsky, T. (Department of Public Health and Social Work)** (2021). Termination of the social work process: Field education and COVID-19. *Journal of Social Work Education*, 57(3).

<https://doi.org/10.1080/10437797.2021.1943086>

*Abstract:*

The termination process is integral to social work practice. Social work educators are charged with providing students with curriculum to build knowledge and skills to engage in a deliberate, task-oriented approach to concluding the social work process. However, in the midst of the COVID-19 pandemic, social work students in field placement suffered an unprecedented level of unplanned premature termination experiences. This teaching note describes the experiences of undergraduate students who, due to the COVID-19 pandemic, were obliged to prematurely terminate their field placements and client relationships. The author shares lessons learned from the experience, including content and assignment suggestions, along with recommendations for future research regarding termination of the social work process.

**Micsky, T. (Department of Public Health and Social Work) & John-Danzell, N.** (2021). Practicing self-care: Integrating a photovoice self-care assignment into a social work course. *Journal of Baccalaureate Social Work*, 26(1): 55-67.

<https://doi.org/10.18084/1084-7219.26.1.55>

*Abstract:*

A foundational understanding of self-care and wellness activities, along with real-world practice, provides undergraduate social work students with the groundwork to maintain personal wellness when practicing as professional social workers. This Teaching Note describes a photovoice self-care assignment that was incorporated into an undergraduate social work practice course. Using guided content on the implications of reduced self-care in the social work field, with readings on self-care and wellness, students practiced and, using a photovoice approach, documented self-care efforts. Common themes of student self-care activities emerged including exercise/physical activity, friends and

relationships, family, and nature. Students provided feedback that indicates growth, learning, and increased motivation to engage in self-care.

Nimon, K., Joo, B.-K. (Department of Management and Marketing), & Bontrager, M. (2021). Work cognitions and work intentions: a canonical correlation study. *Human Resource Development International*, 24(1), 65-91, DOI: 10.1080/13678868.2020.1775038

Redevksi, M.E. (Psychology major), & Rice, B.A. (Department of Psychology) (2022). Characterizing sign-tracking behavior in female Japanese quail (*Coturnix japonica*). *Experimental and Clinical Psychopharmacology*. Advance online publication. <https://doi.org/10.1037/pha0000562>

#### Project Description:

##### Sign Tracking Study

Relapse-like behaviors have been measured in animals using the Pavlovian conditioned approach (PCA) model. During conditioning, a reward is paired with a novel, neutral cue (unconditioned stimulus: UCS). Repeated pairing of the UCS with a salient reward can elicit a conditioned response (CR). Sign tracking (STing) is a CR to the newly conditioned stimulus (CS). Subjects that show a propensity to ST show greater rates of drug-taking behaviors. The vast majority of research in sign tracking is in a male species. Few studies have measured sign tracking in a female model, and those that have, were in a rodent model, which relies predominantly on the olfactory system. Since quail have a visual system similar to humans, and since, in humans, visual cues associated with drug-taking have been implicated as a catalyst to renewed drug-taking, further research was called for. In the current experiment, female Japanese quail, (*Coturnix japonica*) were conditioned to one light, which was paired with a reward (food). Results found a significant Day X Response type (STing and Goal Tracking; GTing) interaction,  $F(4,128) 3.24, p = .01$ , partial  $\eta^2 = .09$ , indicating that STing and GTing were significantly different across conditioning days. Specifically, STing was significantly higher than GTing on all conditioning days,  $p$ 's = 0.0001. We conclude that female quail show a propensity to sign track as

previously demonstrated in female rodent models. The importance of understanding the influence of visual cues on relapse-predictive behavior in a visually-orientated female model may provide potential treatments for problematic drug-taking behaviors.

Roth, J. J. (Department of Criminology and Criminal Justice) (2021). Crime and specific vacancy types in smaller cities and towns. *Criminal Justice Studies*, 35(1), 93-109. DOI: 10.1080/1478601X.2021.2006196.

Silvestro, J. (Department of English) (2022). I Do Think We Did the Right Things at the Right Time to Generate the Right Buzz: A TPC Framework for Public events. *Technical Communication Quarterly*, 31(3), Summer 2022.

#### Summary:

This article uses a case study of a non-profit organization and several of their public events to articulate a framework for promoting, preparing, and running public events. More specifically, the framework outlines an approach to running events so that they can have increased public impact. Thus, the framework seeks to enable communicators, organizational leaders, and writers to hold public events that can have an effect on local communities, public discourse, and/or engagement with local issues. Additionally, the article calls for greater collaboration between writers and communicators with community organizations and non-profits.

Link to article:

<https://www.tandfonline.com/doi/full/10.1080/10572252.2022.2056638>

Willford, J. A. (Department of Psychology), Goldschmidt, L., DeGenna, N.M., Day, N.L., Richardson, G.A. (2021). A longitudinal study of the impact of marijuana on adult memory function: Prenatal, adolescent and young adult exposures. *Neurotoxicology and Teratology*, 84, 106958 <https://doi.org/10.1016/j.ntt.2021.106958>

**Willford, J. A. (Department of Psychology)**, Hazelet, M.E., Khalifa, M.N., DeGenna, N.M., & Richardson, G.A. (2022). The impact of cannabis on memory: From in utero to adulthood. In V. Preedy (Ed), *Cannabis Use, Neurobiology, Psychology and Treatment*. Elsevier.

Wolf, M. R., Pruitt, D. K., & **Leet, T. (Public Health & Social Work)** (2021). Lessons learned: creation and testing of a new instrument (sex offenders grooming assessment) for measuring sex offenders' perceptions of their grooming behaviors. *Journal of Child Sexual Abuse*, DOI: 10.1080/10538712.2021.1970681.

Yoo, S., **Joo, B.-K. (Department of Management and Marketing)**, & Noh, J. H. (2022). Core team states and team effectiveness: The roles of inclusive leadership and knowledge sharing. *Journal of Organizational Effectiveness: People and Performance*. EarlyCite: <https://doi.org/10.1108/JOEPP-05-2021-0120>

## RECENT PRESENTATIONS/ PERFORMANCES/EXHIBITIONS

**Ahuja, N. (Department of Public Health and Social Work)** (2022). *Factors Associated with E-cigarette Quitting Behavior among Adolescents in the United States*. Paper Presentation at the 43rd Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine, April 6-9, 2022, at the Hilton Baltimore Inner Harbor in Baltimore, MD.

**Asher, J. (Department of Mathematics and Statistics)**

- (February 8, 2022). *The Nine Deadly Sins of Data Visualization and How to be a Data Display Saint!* Presentation at University of Georgia ASA Student Chapter Meeting, Sponsoring Organization: University of Georgia ASA Student Chapter

### *Abstract/Synopsis:*

In introductory statistics courses, we teach students some basic methods for displaying data, from histograms to pie charts to scatterplots. In higher-level courses, we might focus on a topic such as Performance Dashboards or using Geographic Information Systems. But there is a separate, equally important topic related to how to do data visualization: how NOT to do data visualization. This talk will focus on data visualization flubs - times that people inadvertently or purposefully manipulated a data graphic to tell an inaccurate story about the data. Finally, we end with examples of good data visualization techniques using popular statistical software packages such as R.

- (February 23, 2022). *Inverse Probability and the 200 Year Journey to Team Bayesian*. Presentation at History of Statistics Interest Group Seminar Series, organized by American Statistical Association History of Statistics Interest Group

### *Abstract/Synopsis:*

Thomas Bayes is now famous for the development of inverse probability, which has since been renamed Bayes Theorem. However, at many points over the past 200 years, Bayes and his theorem were

disparaged as “fundamentally false and devoid of foundation.” The rise of frequentist methods in the early 20th century pushed inverse probability into the shadows, where it quietly evolved under the care of a few stalwart statisticians, until the development of fast computation allowed Bayesian methods to flourish. By the end of the 20th century, Bayesian analysis was here to stay. This talk will explore the history of Bayes Theorem, taking us from the controversies surrounding the Bayesian interpretation of probability during the 19th and early 20th century, through the growth of Bayesian methods after World War II, into the virtual explosion of Bayesian analysis of the early 21st century. The talk is geared toward an undergraduate-level understanding of statistical methods.

- (November 19, 2021). *R.A. Fisher and Eugenics: A Historical Overview*. Presentation at Departmental Seminar Series, Sponsoring Organization: Department of Biostatistics, Emory University
- (August 12, 2021). *R.A. Fisher and Eugenics: A Historical Overview*. Presentation at Joint Statistical Meetings 2021, Sponsoring Organization: American Statistical Association.

*Abstract/Synopsis:*

Who were the eugenicists? Why were so many statisticians eugenicists? And what was Fisher's connection to eugenics? This talk explores the historical context that shaped R.A. Fisher's intellect and personality. It then takes a close look at the conflicts that helped shape R.A. Fisher's contributions to our field. Special attention is paid to his statements on race, especially as they pertain to the United Nations Document, The Race Question.

**Asher, J. (Department of Mathematics and Statistics)** & Goodrick, A. (September 2, 2021). *Case Study: Using COVID-19 Data in a Community-Engaged Elementary Statistics Class*. Presentation at 12th IASE Satellite Conference, Sponsoring Organization: International Association for Statistical Education (IASE).

*Abstract/Synopsis:*

Because it utilizes a combination of high impact

practices—a collaborative project, service learning, and undergraduate research—the use of a community-engaged framework within an undergraduate introductory statistics course can improve educational outcomes for distance learners. During the Fall of 2020, because the usual community-engaged approach of having students partner with a community organization to collect and analyze data was not feasible, we used a recently released dataset on coping mechanisms during the COVID-19 pandemic. Students participated in an analysis of those data to inform policymaking within the university regarding support for students. Similar outcomes in terms of improved understanding of and attitudes toward statistics were achieved through this approach as had been achieved through community-engaged projects in previous semesters.

**Becker, R., Kaufman, J., Crevier, A. (undergraduate students), Roth, J., & Kuehn, S. (Department of Criminology and Criminal Justice)** (2022). *Mental Health Implications for Children of Incarcerated Parents*. Presented at Pennsylvania Association of Criminal Justice Educators, Latrobe, PA.

**Champion, D.R. (Department of Criminology and Criminal Justice)** (March 2022). *Ethical Issues Surrounding Otherwise Illegal Activities Committed by FBI Confidential Informants*. Presentation at Pennsylvania Association of Criminal Justice Educators Association (PACJE). Annual Meeting, Latrobe, PA.

DeVlieger, S.E., Dolcini-Catania, L.G., **Willford, J.A. (Department of Psychology)** & Gallen, R.T. (2022). *Preservice child serving professionals learning experiences about childhood trauma and motivations for enacting responsive practices. Roundtable Session: Trauma, Mindfulness, and Pre-Service Teacher Preparation*. Presentation at the American Educational Research Association Conference, San Diego, CA.

**DiCarlo, J.I., Beers, D., Corbett L. (Psychology major); Rice, B.A. (Department of Psychology)** (April 2022). *Ethanol-induced Conditioned Place Preference in Japanese quail: a pilot study*. Midwestern Psychology Association, Chicago, IL (Poster)

Edwards, K., Eaton-Stull, Y., & Kuehn, S. (Department of Criminology and Criminal Justice) (June, 2021).

*Police officers' experiences of stress and coping strategies.* Presented at the Northeastern Association of Criminal Justice Sciences Conference. (virtual).

**Gramlich, C. (Storm Harbor Equestrian Center), Kemeny, B. (Department of Recreational Therapy), & Fawber, H. (November 12, 2021).** *Adaptive Riding and Equine Assisted Services: Implications for the Life Care Plan.* International Association of Life Care Planners Annual Conference. (Oral Presentation)

**Hertel, H. (Department of Art) and Santillano, S. (2022).** *Sands of Time, Bodies of Water.* Presentation on the session "Nature Connection: Art and Science" at the Mid-America College Art Association (MACAA) National Virtual Conference, hosted by SRU. March 31 – April 2, 2022.

*Abstract:*

Inspired by environmental water concerns, Mercyhurst Dance faculty Solveig and Mark Santillano created the film, "Sands of Time, Bodies of Water". The film was designed to replace the in person (COVID cancelled) 2020 National Water Dance Project: The Ripple. The reconfigured project, has maintained its original science-based art making informed by Mercyhurst Chemist, Dr. Parente's scientific research into the areas of water pollution in the Erie region. Solveig directs the project, which features editing and cinematography by Mark that includes beautiful Presque Isle and Erie waterfront footage locations and featuring repeated and accelerated sunsets/sunrises and other effects to create a sense of urgency for enhanced water stewardship. Also included is an original score by composer Andy Hasenpflug, and wearable art pieces by collaborator Heather Hertel. The scope of the project involves an environmental focus, and community building components; while simultaneously avoiding large gatherings and elevated pandemic risk. Founded on principles of interconnectivity, all involved artists were invited to contribute original movement, music, and wearable art pieces that would then be woven into the whole.

**Ignelzi, M. & Strano, D. (Department of Counseling and Development)**

- (2022, March). *Promoting Cognitive Complexity in New Professionals Using Kegan and Lahey's Internal Languages for Transformation (ILT) Process.* Presentation at the National Association of Student Personnel Administrators conference, Baltimore, MD.
- (2022, March). *Providing Essential Student and Counseling Services That Support Students' Development and Resilience from a Western European Perspective.* Presentation at the National Association of Student Personnel Administrators conference, Baltimore, MD.

**Jazaei, R. (Department of Physics and Engineering) and Jacobo Southwick (Physics and Engineering major) (2022).** *The Impact of Synthetic and Steel Fibers on the Mechanical Properties of Concrete.* Presentation at American Concrete Institute (ACI) Fall Convention 2022 – Orlando, FL UHPC Special Session.

*Abstract:*

Ultra-High-Performance Concrete (UHPC) is a newer composition of concrete that utilizes the presence of synthetic and steel fibers among other non-traditional components to increase its mechanical properties. Along with the addition of multiple materials, a decreased water-to-cement ratio is used when mixing UHPC to decrease porosity. Different processes in mixing and curing operations also distinguish UHPC from other traditional concretes. In addition to superior mechanical properties, UPHC exhibits increased workability, high strength at early testing times, low permeability, and an increased lifespan even when exposed to adverse weather conditions. All these factors contribute to the impact UHPC could have on the construction industry. In this research, the impact test was conducted for the specimens reinforced by Polypropylene/Polyethylene, Polypropylene, and Cold-drawn shaved steel fiber was employed with 0.4 water-to-cement ratio. The specimens were compared with the control sample as well as sample incorporating Carbon Nanotubes (CNTs). The results indicated that Polypropylene/Polyethylene and Polypropylene energy absorption were respectively 8%

and 5% greater than the specimens with CNTs. The failure mechanism varied from fiber specimens to CNTs specimens.

**Joo, B.-K. (Department of Management and Marketing)** (April 19-21, 2022). *Organizational Agilience: Managing Duality of Agility and Resilience in this uncertain and dynamic business environment*. The 2022 Academy of Human Resource Development Conference Proceedings. Arlington, VA.

**Joo, B.-K. (Department of Management and Marketing)** (2021). *Organizational agilience: Sustaining in this volatile, uncertain, chaotic, and ambiguous business environment*. The 2021 Eastern Academy of Management Conference. (online)

**Kemeny, B. (Department of Recreational Therapy)**, Best, C., Bradford, K., Gala, M., Sumser, A.J. (2021). *Recreational Therapy Student-to-Student Peer Mentoring Program for Community Engaged Learning*. ATRA Annual Conference presentation.

**Kemeny, B. (Department of Recreational Therapy)**, Burk, S. (October 30, 2021). *Therapeutic Riding or Mindfulness: Comparative effectiveness of two recreational therapy interventions for adolescents with autism*. Horses and Humans Research Foundation Conference. Asheville, NC. (Invited Presentation)

**Kemeny, B. (Department of Recreational Therapy)**, & Cole, S. (November, 12, 2021). *Government and University Partner for Virtual Service-Learning to Support Intergenerational Social Interaction*. Gerontological Society of America. Oral Presentation.

**Kemeny, B. (Department of Recreational Therapy)**, DeVries, D. (Sept 2021). *COVID-19 and the Role of Recreational Therapists in LTC*. ATRA Research Institute. ATRA Annual Conference (virtual).

**Kemeny, B. (Department of Recreational Therapy)**, DeVries, D. (November 12, 2021). *The Impact of COVID-19: Perspectives of Recreational Therapists Working with Older Adults*. Gerontological Society of

America. Poster Presentation.

**Kemeny, B. (Department of Recreational Therapy)**, Fawber, H., Marcinko, D. (Sept 2021). *Life Care Planning: The Implications for Recreational Therapy Practice*. ATRA Annual Conference (Virtual).

**Kemeny, B. (Department of Recreational Therapy)**, Fawber, H. & Marcinko, D. (November 13, 2021). *Enhancing the Life Care Plan with Recreational Therapy*. International Association of Life Care Planners Annual Conference, Oral presentation.

**Khalaifa, M. (Psychology major)**, Asher, J. & **Willford, J.A. (Department of Psychology)** (2022). *Predicting depression: Interrelated roles of life events from adolescence through emerging adulthood*. Poster presentation at the Midwestern Psychological Association, Chicago, IL.

**Khalaifa, M., Sentle, O., Collins, E., Rundle, E. (Psychology major) & Willford, J.A. (Department of Psychology)** (2021). *Emotional neglect in childhood, alcohol use, and mental health predict perceived stress in young adults*. Poster presentation at the National Collegiate Honors Conference, Orlando, FL.

**Kovacs, I. (Department of Physical health and Education)**, Houk, T., & Sileo, B. (2022). *Online Group Resistance Training Improves Beginners' Muscular Fitness*. SHAPE America National Convention, April 26-30, 2022, New Orleans, LA

**Kovacs, I., Liu, W. (Department of Physical health and Education)** (2022). *Physical Activity Involvement and Processes of Change among University Students*. SHAPE America National Convention, April 26-30, 2022, New Orleans, LA

**Kovacs, I., & Liu, W. (Department of Physical health and Education)** (2021). *Discriminant Analysis: How Accurately the Processes of Change Classify Exercise Levels?* ACSM's 68th Annual Meeting, 12th World Congress on Exercise is Medicine and World Congress on the Basic Science of Exercise in Regenerative Medicine.

Online. June 1 – June 5, 2021.

**Kuehn, S. (Department of Criminology and Criminal Justice)** (2021). *The school to prison pipeline: How overly harsh school discipline pushes minority youth out of schools and into the criminal justice system*. Presented at the PASSHE Women's Consortium Conference. (virtual)

**Kuehn, S. (Department of Criminology and Criminal Justice), & Vosgerau, J.** (2022). *Once a Criminal, always a Criminal: The Public's Overestimation of Immoral Behavior*. Presented at the Annual Meeting of the Academy of Criminal Justice Sciences, Las Vegas, NV, 2022.

**Kuehn, S. (Department of Criminology and Criminal Justice) & Bonadio, M. (undergraduate student)** (2021). *A Comparative Perspective of Indigenous Female Juveniles in three Criminal Justice Systems*. Presented at the Annual Meeting of the American Society of Criminology, Chicago, IL, 2021.

**Kuehn, S. (Department of Criminology and Criminal Justice), Ellsworth, J., Hubay, D., LaCom, C., Lewis, A., & Jones, Y.** (2021). *Restorative Justice and Successful Re-Entry*. Roundtable discussion at the Annual Meeting of the American Society of Criminology, Chicago, IL.

**Kuhn, E. (undergraduate student), Kuehn, S. (Department of Criminology and Criminal Justice), & Ridener, R.** (2021). *Collaboration between Veteran Treatment Court Members and the Effect of Covid on the Court's Operation*. Presented at the Northeastern Association of Criminal Justice Sciences Conference. (virtual)

**Lee, J. S. (Department of English), Casson, A., & Drozda, N.** (2022). *Developing Equity-Minded Assessment Matrixes for Academic Departments*. PASSHE Women's Consortium. March 24-26, 2022.

**Liu, W., Kovacs, I. (Department of Physical health and Education)** (2022). *Self-Efficacy of Exercise, Decisional Balance, and Exercise Participation*. SHAPE

America National Convention, April 26-30, 2022, New Orleans, LA.

**Liu, W., Kovacs, I. (Department of Physical health and Education)** (2022). *Logistic Regression: PA-Promotion Strategies used by Habitual and Regular Exercisers*. SHAPE America National Convention, April 26-30, 2022, New Orleans, LA

**Liu, W., Kovacs, I. (Department of Physical health and Education)** (2021). *Improving the Processes of Change Through Physical Activity Classes*. ACSM's 68th Annual Meeting, 12th World Congress on Exercise is Medicine and World Congress on the Basic Science of Exercise in Regenerative Medicine. Online. June 1 – June 5, 2021.

**Liu, W., Kovacs, I. (Department of Physical health and Education)** (2021). *Logistic Regressions: Habitual and Regular Exercisers and Perceived Barriers to Being Active*. ACSM's 68th Annual Meeting, 12th World Congress on Exercise is Medicine and World Congress on the Basic Science of Exercise in Regenerative Medicine. Online. June 1 – June 5, 2021.

**Melago, K. (Department of Music)**

- (2021). Music for All, Inc. "Teaching Social Emotional Learning Through Music with Dr. Kathy Melago and Students" invited guest with Slippery Rock University students, Shelby Bryan, Hannah D'Egidio, and Michael McGarrigle, and Lake Forest College students, Romario Avila, Marissa Barnette, and Kathia Torres. Hosted by Dr. Scott Edgar. Released September 30, 2021. <https://youtu.be/BqctclIRF0k>. As a result of my work with social emotional learning, three SRU students and I were invited to be part of a podcast episode hosted by the foremost individual in research with music and SEL, Dr. Scott Edgar.
- (2021). Music for All, Inc. "Lunchtime Chat: College and Music Professionals Group" invited panelist. Panelists included: Dr. Kelvin Jones – Director of the Tiger Marching Band – Louisiana State University, Dr. Kerry Anne Simon – Director of Bands – Mississippi Valley State University, Dr. Kathleen A.



Melago – Division Head for Music Education – Slippery Rock University, Dr. Corey Spurlin – Marching Band Director, Associate Director of Bands – Auburn University, Dr. Matthew Arau – Chair of the Music Education Department – Lawrence University, Dr. Caroline Hand – Director of Athletic Bands – Ball State University, Dr. Scott Edgar – Music for All Co-Host, Cameron W. Jenkins – Music for All Co-Host. July 14, 2021.

<https://education.musicforall.org/event/lunchtime-chat-college-music-professionals-group/>

**Melago, K. (Department of Music), Helmick, J., & Schlegel, M. (2022).** *Mentoring Future Music Educators from Kindergarten to 12th Grade; Part 3: National Association for Music Education Building a Legacy Series*. National Association for Music Education Webinar Series, (March 29, 2022) as invited guests to present on teacher recruitment in the National Association for Music Education webinar series.

**Micsky, T. (Department of Public Health & Social Work):**

- (2022, March 23-25). *Social Location in the Social Work Classroom: Gaining Awareness & Finding Perspective*. The Association of Baccalaureate Social Work Program Directors Annual Program Meeting. (Virtual Workshop)
- (2022, February 18). *Wellness in Higher Education - Group Session*. Jefferson Community & Technical College, Louisville, Kentucky. (Invited Virtual Workshop)
- (2022, February 4). *Wellness in Higher Education: Coping with Loss, Burnout, and Compassion Fatigue*. Los Angeles Southwest Community College, Los Angeles, California. (Invited Keynote Address and Breakout Discussion)
- (2022, January 5). *Wellness in Higher Education: Coping with Loss, Burnout, and Compassion Fatigue*. Jefferson Community & Technical College, Louisville, Kentucky. (Invited Virtual Workshop)
- (2021, December 10). *Professional Satisfaction for Therapists: Coping with Burnout, Compassion Fatigue, Secondary and Vicarious Trauma*. GoodTherapy.org. (Invited Live Web Conference)

- (2021, October 20). *Loss & Grief: A Modern Lens for Practical Interventions*. Positive Change Conference – Zooming Out: Mapping the Path Ahead. (Invited Opening Keynote Presentation)
- (2021, July 30). *Loss & Grief: Modern Theory and Tools for Intervention*. GoodTherapy.org. (Invited Live Web Conference)

**Musyt, J. & Asher, J. (Department of Mathematics and Statistics)** (January 11, 2022). *Exploring Pedagogy around Math Trauma*. Presentation at the 2022 PASSHE Virtual Conference on Teaching and Learning, Sponsoring Organization: Center for Teaching and Learning, Slippery Rock University.

*Abstract/Synopsis:*

Undergraduate students at most institutions are required to take at least one course in mathematics as part of their curriculum. This course is dreaded by many that had not been successful in previous mathematics courses; even among the more mathematically inclined, introductory mathematics courses are the most common roadblock to earning undergraduate degrees in the STEM fields. Although there has been some research around mathematics anxiety, no serious research program has been developed around the concept of mathematics trauma; that is, traumatic events during a student's early education related to learning mathematics that inhibit success in later mathematics coursework. This talk will explore the concept of mathematics trauma, based on examples from written reflections by mathematics education students at Slippery Rock University. A preliminary approach to a trauma-informed pedagogy for introductory mathematics courses in higher education will then be outlined.

**Muthusamy, S. K. (Department of Management and Marketing)**

- (2022). *Trust Equity as an Organizational and Managerial Asset: A Dialectical 'Other-Interest' Perspective*. Presentation and proceeding at the Eastern Academy of Management Conference, May 17 – 20, 2022.
- (2021). *Shifting Sands Whilst Sifting for Profits: Evolving Patterns of Firm Size and Performance in*

*the U.S. Economy*. Included in the Eastern Academy of Management Proceedings, 58th Annual Meeting, May 19 – 22, 2021.

<https://www.openconf.org/EAM2021/>

**Naggy, E. M. (Department of Occupational Therapy)**

- (2021). Pennsylvania Occupational Therapy Association Annual Conference, October 15, 2021.  
  
“Utilizing Free Movement Play to Prevent Skull Deformity” with student Felicia Sunday – Infants who do not participate in active play experience developmental delays and positional skull deformities. This presentation offers evidence-based solutions for caregivers to support infant development.  
  
“Maternal Mental Health in Early Intervention” with Bernadette Schmeltz, OTD, OTR/L, CLT & Samantha Dittmer – The transition into the role of caregiver causes physical and emotional changes. This presentation reviews how to recognize problems in maternal mental health as well as strategies to support emotional well-being.  
  
“Feeding Education Strategies for Caregivers within Early Intervention” with Bernadette Schmeltz, OTD, OTR/L, CLT & Brittany Hartman – Multiple factors must be considered when supporting the development of healthy eating and drinking skills in early life. This presentation shares evidence-based interventions to promote successful feeding in infants and young children.  
  
“Advocacy for Power Wheelchairs to Enable Occupation” with Megan Carnahan & Katie Ashbaugh – Power wheelchairs provide greater accessibility for people who use them for mobility but funding for these items is lacking. This presentation provides information to help advocate for the provision of power wheelchairs and other mobility devices.
- (2022). Assistive Technology Industry Association Annual Conference, January 25, 2022. “A Tale of Two Programs: Teaching Assistive Technology to OT

Students” with Beth Randall, OTD, OTR/L - Occupational therapy programs must address accreditation standards regarding assistive technology. This ever-changing field requires teachers to constantly update materials and projects. This presentation shared how two different universities (Slippery Rock University and Clarkson University) have developed classes to address required information for student success.

- (2022). POTA Pediatric Post Conference. February 25, 2022. “Occupational Therapy in Perinatology: Supporting Infants and Caregivers” with Bernadette Schmeltz, OTD, OTR/L, CLT, Samantha Dittmer & Brittany Hartman – The perinatal period consists of major life role, physical, and emotional changes. Occupational therapists provide needed services for families in the perinatal period, but most caregivers are unaware of these supports. This presentation covers multiple domains that occupational therapists intervene in. People need to engage in activities to feel empowered and valued. This presentation covered a variety of art interventions used to support engagement in valued activities for self-expression and improved quality of life.

**Ridener, R. & Kuehn, S. (Department of Criminology and Criminal Justice)** (2021). *Veterans Court’s Team Members’ Views on Collaboration*. Presentation at the virtual Annual Meeting of the Academy of Criminal Justice Sciences, 2021.

**Roth, J. J. (Department of Criminology and Criminal Justice)** (March 2021). *Property Crime and Small Town Vacancy*. Paper presentation at the Pennsylvania Association of Criminal Justice Educators annual meeting.

Thomas, B. & **Willford, J.A. (Department of Psychology)** (2022). *Facilitating interaction, connection, and learning through collaborative annotation with Perusall*. Presentation at the PASSHE Conference on Teaching and Learning, Virtual.

**Westman, B. (Department of Art)**

- CAA 2022 conference, College Art Association, participated in the panel titled History, Art, Commemoration and the Private Sphere in Central and Eastern Europe.
- 2nd International Triennial Intaglio 2021, juried printmaking exhibition, White World Gallery, Kyiv, Ukraine
- NOW 2021 Group A juried exhibition, Spinning Plate Gallery, Pittsburgh, PA

**Willford, J.A. (Department of Psychology) (2022).**

*Developing curriculum to support undergraduate research. Roundtable Session: Supporting and engaging undergraduates in research.* Presentation at the Midwestern Psychological Association Conference, Chicago, IL.

**Willford, J.A. (Department of Psychology) (2022).**

*Putting the long in longitudinal: Research and mentoring experiences in developmental neurotoxicology.* An invited presentation as the 2022 recipient of the Society for Birth Defects and Prevention and the Developmental Neurotoxicology Society Patricia Rodier Mid-Career Award in Research and Mentoring, Vancouver, Canada.

Wolfe, B., **Kemeny, B. (Department of Recreational Therapy)**, & Crawford, T. (Sept 2021). *Yesterday, Today, and Tomorrow: Empowering Recreational Therapists.* ATRA Annual Conference Live Session.

**RECENT RESEARCH ACTIVITIES AND ACCOLADES****Ambrosio, N. (Department of Dance) (2022)**

- Conducted a four-hour training session for perspective accreditation site visitors on behalf of the National Association of Schools of Dance.
- Ambrosio, Nora, Dance, has been elected to a second term as a Board Member for the National Association of Schools of Dance.
- Ambrosio, Nora has been elected as the National Association of Schools of Dance representative to the Accrediting Commission for Community and Precollegiate Arts Schools (ACCPAS).
- Ambrosio, Nora, Dance, created three new choreographic works that will be presented in the Faculty and Guest Artist Dance Concert, fall 2022.

**Del Vecchio, A. (PI) and Zarit, M. (Co-Investigator) (Department of Nonprofit Management, Empowerment and Diversity Studies) (2022)**

**Undergraduate Research Assistants: Alia Anton, Cherie Martin, Megan McLafferty, and Kelly Pare**  
Project: An Assessment of the 2025 Nonprofit Workforce Needs in Pennsylvania, funded by a Slippery Rock University Faculty Student Research Grant. (\$5,540)

*Description:*

Across the nation, the nonprofit sector is about to experience a workforce shift as baby boomers exit the sector. This project is identifying how nonprofits through Pennsylvania are preparing for the exodus through succession planning; to determine the number of anticipated vacant positions through 2025; and to identify desired skill sets as this changing sector moves through its leadership transition. As Slippery Rock University currently offers Pennsylvania's only undergraduate academic program (major/minor) in nonprofit management and philanthropic studies, findings can also be helpful in informing curricular adjustments in the SRU program, guiding marketing efforts for the major/minor and providing direction for our job-seeking nonprofit management graduates.

**Hertel, H. (Department of Art)** (2022). MACAA President (2018 – present), directed the Mid-America College Art Association national virtual conference hosted by the College of Liberal Arts, Slippery Rock University of Pennsylvania March 31 – April 2, 2022.

*Conference Description:*

Defining the Undefined: Art, Education, Technology and the Mapping of Ourselves

As artists, we draw maps, imperfect translations of the world. We interact with that function as a tool for others to better understand where they situate themselves within this world. As educators, we design road maps for students to find their bearings, to set a course. Then, to pick up where our maps have left off to continue discovering new terrains. Technology is the means by which we generate these maps. How will advancements in technology continue to initiate new understandings of these maps? How does mapping define us, both physically and metaphysically? Given the challenges educators, students, and institutions are currently facing, we are particularly interested in sessions that address timely topics relevant to the changing landscape of art, technology, and education, as well as those which consider mapping in relation to cognitive, emotional, and health-based applications. It is undeniable there are still many maps to be drawn that will both solidify and complicate how we understand ourselves in relation to each other and the space we inhabit now and in the future.

MACAA invites artists, designers, educators, historians, performers, scientists, writers, and other professionals to come together virtually on ZOOM. We invite scholars across the full spectrum of disciplines to share their expertise and perspectives in the form of presentations, papers, panels, performances, and posters. We welcome proposals by individuals and groups and invite proposals for linked activities or streams.

We are planning an inclusive virtual conference featuring keynote speaker, Katherine Sherwood, Professor Emeritus, UC Berkeley; focused on health and healing. A juror talk with Matt Roberts, who will select up to 20

artworks hosted in a virtual gallery created by Geoffrey Beatty, La Salle University. We will also host two interactive Diversity workshops by Melinda Messineo, Ball State University. Students and Graduate students are encouraged to be involved through student centered sessions, and a graduate roundtable discussion.

Visit [www.macaart.org](http://www.macaart.org) for more information on the conference.

**Leet, T. L. (Public Health & Social Work)**, Dr. Molly Wolf (Edinboro University), Dr. Doyle Pruitt (Winona State University) (2022). Currently conducting a study, Sex Offender Grooming Assessment Study, to determine the reliability and validity of an instrument used to measure grooming behaviors in adult sex offenders. The purpose is to create a much needed resource for evaluation and treatment of adult sex offenders.

**Rice, B. A. (Department of Psychology)** (2022) Faculty/Student Research Grant, proposal title “Avian model of ethanol Reward,” award total: \$4,869.

*Project Description: Ethanol study*

Background: Because individuals trying to abstain from addictive substances (e.g., alcohol) relapse 40-60% of the time, substance use disorders are considered chronic relapsing diseases. Stimuli (e.g., beer bottle, bar sign) related to alcohol have been shown to elicit relapse in persons with substance use disorders. Therefore, it is important to understand the relationship between these stimuli and their ability to elicit alcohol consumption. The proposed study will utilize a sample of birds (i.e., quail) to investigate whether an ethanol (i.e., alcohol) predictive cue (i.e., stimuli) is capable of eliciting ethanol-seeking behavior. Birds are an appropriate sample for this research because they are visually orientated and have, similar to humans, been shown to develop associations between cues predictive of rewards (e.g., Rice et al., 2018; 2019). As the first step in this line of research, we will need to establish that birds will develop a preference for the light cue that is paired with ethanol in the laboratory. We will measure the rewarding effects of ethanol in a bird by pairing a cue (i.e., light) with the administration of ethanol. If a bird finds ethanol

rewarding, it will seek out the cue that predicts the ethanol. It is predicted that the bird will find ethanol rewarding because birds in nature seek out fermented berries and consume them until they are inebriated or die. Understanding the role of alcohol predicting stimuli will help guide research into treatments for individuals who suffer from alcohol substance use disorder.

**Significance:** The proposed study will be the first to measure preference of a discrete cue (i.e., colored light) that predicts ethanol administration in a bird (i.e., quail). This will allow us to measure preference of ethanol in the bird by measuring the preference to the ethanol predicting cue opposed to the cue that does not predict ethanol. Establishing a model of ethanol preference will allow future research in behavioral and/or pharmacological interventions that may reduce this preference of ethanol in the presence of ethanol predicting cues. Reducing preference of an ethanol predicting cue in a bird has implications for humans that show renewed alcohol consumption (i.e., relapse) as a result of alcohol predicting stimuli. Alcohol related stimuli have been implicated as a catalyst for relapse after attempts of abstaining in individuals that meet alcohol substance use criteria. Therefore, understanding the role in alcohol associated stimuli may implicate therapeutic targets for treatment seeking alcohol substance users.

**Westman, B. (Department of Art)** (Fall 2021 & Spring 2022). International Collaborative Project Textile Mood: Advanced Fiber Art class (SRU) and Fiber Art class (Art & Design Department, Lisbon Polytechnic, Portugal).

## 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 RRE shares, 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 students
- ❖ Research projects and grant acquisition information (title, authors, brief description)
- ❖ 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](mailto:rockresearchexpo@sru.edu).

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

Submission deadline for the newsletter is February 28.

### 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., and 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.

