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| **#** | **Program** | **Time & Location** | **Poster** | **Abstract** |
| 1 | Art and Design | 5:30pm-7pm, Syracuse | **Scout: Find the Way to Digital Accessibility**  Author(s): Youker, Heidi Mentor(s): Mushtare, Rebecca | Scout is a website designed and developed to be a resource for pre-teachers and seasoned teachers to learn about the basic principles of digital accessibility. The site provides resources to help teachers integrate accessibility practices into their daily work. |
| 46-56 | Art and Design | 3:00 - 6PM, Tyler Hall Lobby | **Oswego Reading Initiative Promotional Posters for Fall 2024**  Author(s): Clear,Haley Harry, Allyson Leone, Claire Martin, Cein Porter, Maniya Brown, Gillian Griffin, Daniel Patota, Thomas Pflanz, Morgan Smith, Ella Stelling, Iris Mentor(s): Clabough, Cynthia | The Oswego Reading Initiative is an annual project asking the campus community to read one book over the summer. To accompany the selection, a series of programs, including cultural events and talks are planned to facilitate discussion and involvement around the title. 2024 selection is "Which Side Are You On” by Ryan Lee Wong. |
| 62 | Atmospheric and Geological Sciences | 2-3 pm, DFS Ice Arena | **An Overview of Lightning During the Lake-Effect Electrification (LEE) Field Campaign**  Author(s): Lamsma, Bee; Weist, Thomas Mentor(s): Steiger, Scott; Wang, Yonggang | NSF Project LEE’s main goal is to study electrification of lake-effect systems and how lightning interacts with turbines. This poster provides an overview of the data analysis and findings like lightning mapping array configuration and plot analysis, lightning-turbine interaction distances, and the climatology of lightning in the Lake Ontario Region. |
| 63 | Atmospheric and Geological Sciences | 2-3 pm, DFS Ice Arena | **An Overview of the Synoptic Conditions and Analysis of Forecast Models of the January 2016 Storm**  Author(s): Cusano, Nicholas Mentor(s): Perugini, Sam | During January 22nd-23rd, 2016 a blizzard hit the central East Coast. The blizzard formed in the southeastern part of the United State; it followed the East Coast with the track of a signature nor’easter. This event produced over 36 inches, with the highest totals being in southern Pennsylvania, West Virginia, and Virginia. |
| 64 | Atmospheric and Geological Sciences | 2-3 pm, DFS Ice Arena | **Cutting the Geological Cake of the Tug Hill Plateau with Geomagnetic Modeling**  Author(s): Paige, Amber Mentor(s): Valentino, David | Magnetic susceptibility measures were made on rock formations throughout the Tug Hill Plateau to generate a magnetic model depicting the subsurface geology. Using this model, inferences were made about the thickness of strata and composition of basement rocks that are concealed beneath the plateau. |
| 65 | Atmospheric and Geological Sciences | 2-3 pm, DFS Ice Arena | **Mapping and Modeling the Groundwater-surface Water Interaction Associated with a Drumlin Deposit using Electrical Resistivity Methods**  Author(s): Muncy, Skylar Mentor(s): Valentino, David | Electrical resistivity methods were used to map and model the distribution of groundwater within the glacial drumlin deposit at Cornish Hill, Fallbrook Farm. Two-dimensional ER profiles reveal the extent of the groundwater table, aquifer, and non-saturated sediments. The drumlin can be modeled like a very large “sponge” that is seeping at lower elevation. |
| 66 | Atmospheric and Geological Sciences | 2-3 pm, DFS Ice Arena | **Shear Strain History of Eastern Piseco Lake**  Author(s): Cordell, William Mentor(s): Valentino, David | The Piseco Lake shear zone (PLsz) occurs in a belt of deformed granitoids that cross the Adirondacks with an E-W strike, and is associated with Shawinigan orogenic activity. The eastern termination of the PLsz has undergone dextral transposition to form a map-scale reclined fold, with N-S strike in the Palmerton Range.The rocks in the N-S trending segment of the shear zone were studied to determine if they have a similar strain history as the main PLsz, and/or include subsequent strain associated with the apparent dextral transposition. |
| 67 | Atmospheric and Geological Sciences | 2-3 pm, DFS Ice Arena | **Aquifer Mapping in Glacial Till Using Electrical Resistivity Methods**  Author(s): Brayton, Ande Mentor(s): Valentino, David | The purpose of this research is to locate and map an aquifer developed in glacial till on the grounds of the Rice Creek Field Station. This study employs stacked 2D electrical resistivity pseudo-sections that penetrate to a depth of 10 to 15 meters. |
| 68 | Biological Sciences | 2-3 pm, DFS Ice Arena | **Long-term manual control of invasive Typha in a central New York fen to reduce thatch accumulation**  Author(s): McKenzie, Alicia Mentor(s): Hellquist, Eric | Cattails (Typha) are invasive plants in many North American wetlands. Over six years, we worked in an Oswego County fen to control the spread of Typha. Even with a hiatus in cutting, the value of manual removal of Typha for reducing stems and their transition into habitat-altering thatch was evident. |
| 69 | Biological Sciences | 2-3 pm, DFS Ice Arena | **The effects of manual cutting on Typha inflorescence production in a Central New York fen**  Author(s): Crego, Nathan Mentor(s): Hellquist, Eric | In central NY, Typha (Cattails) can become dominant in sensitive fen habitats. We cut Typha for six years to determine the effectiveness of cutting in spring and fall seasons in an Oswego County fen. We determined that seasonal cutting is an effective measure for reducing Typha reproductive potential. |
| 70 | Biological Sciences | 2-3 pm, DFS Ice Arena | **Effects of Road Salt and Water Quality on Brassica rapa Plant Growth**  Author(s): Hajdaj, Lilah; Cioffa, Madison; Pascall, Jaedyn Mentor(s): Hellquist, Eric | The impacts of environmental pollutants, such as road salts, on plant life is a major ecological concern. Salt-treated snow from SUNY Oswego was collected to test the negative impacts of salt on development of yellow-green Brassica rapa. In general, road salt treated plants exhibited greater death and reduced growth. |
| 71 | Biological Sciences | 2-3 pm, DFS Ice Arena | **Analyzing Dietary Preferences in Round Gobies (Neogobius melanostomus)**  Author(s): Bush, Jane; Chinnici, Matthew Mentor(s): Lange, Liz | Studying Round Goby's diet and behaviors in the Great Lakes aids in understanding its invasive impact. We aimed to identify favored foods and hypothesized that blood worms would be preferred over brine shrimp and squid pellets. This work contributes to comprehensive knowledge of the species' potential ecological impact. |
| 72 | Biological Sciences | 2-3 pm, DFS Ice Arena | **The Influence of Three Different Soil Types on Brassica rapa Growth**  Author(s): Ducreay, Alexis; Arias, Gardelin; Sanchez, Arlette Mentor(s): Hellquist, Eric | We studied the effects of soil conditions on rosette and standard Brassica rapa. We grew Brassica in potting soil (control), peat, and a mixture of peat and sand. We measured growth parameters within each treatment. Brassica types grew taller and completed their life cycle faster in the mixed soil. |
| 73 | Biological Sciences | 2-3 pm, DFS Ice Arena | **The Effect of Saccharomyces cerevisiae in soil on Brassica rapa Growth**  Author(s): Hurst, Barnaby Mentor(s): Hellquist, Eric | Saccharomyces cerevisiae (brewing/bakers yeast) was added to soil of Brassica rapa during planting to determine if yeast would impact Brassica growth, resulting in increased growth compared to the control. Our results suggest that the presence of brewers yeast in soil was beneficial to plant growth. |
| 74 | Biological Sciences | 2-3 pm, DFS Ice Arena | **Is there an inhibiting effect of different soil nutrients on Brassica rapa?​**  Author(s): Mcpadden, Jenni; Talbot-Evangelow, Kalie; Chaidez, Maya Mentor(s): Hellquist, Eric | Soil quality is a major influence on plant growth. One aspect of soil that can influence plant growth is pH. We investigated how three soil types affected the growth of Brassica rapa. In general the lime treatment had greater plant growth, while plants grown in peat had the least growth. |
| 75 | Biological Sciences | 2-3 pm, DFS Ice Arena | **Identifying the relationship resulting from intervarietal competition between Brassica rapa varieties**  Author(s): Cronk, Garrett; Gallo, Sydney Mentor(s): Hellquist, Eric | Plants growing in proximity to each other may have a positive or negative impact on each other. We investigated the growth of two varieties of Brassica rapa (yellow green and rosette) growing alone and together. Initial results suggest that the plants showed greater growth when growing together. |
| 76 | Biological Sciences | 2-3 pm, DFS Ice Arena | **The Effects of Simulated Herbivory on Growth Parameters in the Rosette-Dwarf Variety of Brassica rapa**  Author(s): Alfred, Katrina; Foster, Kristina; Dawoud, Marina Mentor(s): Hellquist, Eric | Understanding plant-animal interactions is crucial to explaining ecological complexities and relationships. Herbivory involves damage to plant tissues that can have detrimental effects on the plant’s growth, reproduction, and energy allocation. We investigated the effects of simulated herbivory on rosette-dwarf Brassica rapa. Our results suggested that herbivory decreased growth. |
| 77 | Biological Sciences | 2-3 pm, DFS Ice Arena | **The effect of Juglone allelopathy from Juglans nigra on Rosette Brassica rapa growth rate and photosynthesis efficiency**  Author(s): Benenati, Cascade; Gilot, Arianna Mentor(s): Hellquist, Eric | In eastern North America black walnut is well known for allelopathic properties. Allelopathy is a form of chemical competition between plants. We observed the effect of Black walnut allelopathy on Brassica rapa plant growth. Our Initial results indicate decreased growth in black walnut affected Brassica plants. |
| 78 | Biological Sciences | 2-3 pm, DFS Ice Arena | **Effect of allelochemicals from Nicotiana species on the height, total biomass, leaf count, and photosynthesis of the yellow-green variety of Brassica rapa.**  Author(s): Sternfeld, Abigail; Patel, Janki Mentor(s): Hellquist, Eric | Allelopathy is a form of plant competition impacting plant growth. We investigated the impacts of concentrations of allelochemicals from Nicotiana spp. on Brassica rapa, examining growth parameters over 37 days. In general, we found allelochemicals had no impact on growth. |
| 79 | Biological Sciences | 2-3 pm, DFS Ice Arena | **Using reflectance spectrometry and avian visual modeling to quantify color variation in male and female Painted Buntings**  Author(s): Knecht, Nikki Mentor(s): Baldassarre, Daniel | Female and young male Painted Buntings both have green plumage, while adult males are multicolored. Using reflectance spectrometry, I am quantitatively analyzing color differences between females and young males, between age groups of females, and among adult males to investigate the potential effects of color variation on Painted Bunting populations. |
| 80 | Biological Sciences | 2-3 pm, DFS Ice Arena | **Does fin morphology predict mating behavior in male sailfin mollies?**  Author(s): Sampson, Anica Mentor(s): Lange, Liz | Sailfin mollies, Poecilia latipinna, provide an excellent example of sexual selection and behavioral evolution. In this study, male mollies' body size and fin areas were measured. Despite the differences in the size of morphological characteristics among males, we hypothesize that their behavior is strictly based on their overall body size. |
| 81 | Biological Sciences | 2-3 pm, DFS Ice Arena | **Surveillance of Ophryocystis elektroscirrha in the Migratory Population of Danaus plexippus in Oswego County**  Author(s): Dickert, Stephanie Mentor(s): Sime, Karen | The long-term decline of Danaus plexippus (monarch butterfly) populations is influenced by a protozoan parasite, Ophryocystis elektroscirrha (OE). This study monitored the fall migration of monarchs in Oswego County for OE and compared the parameters of infection in 2023 with previous years. |
| 82 | Biological Sciences | 2-3 pm, DFS Ice Arena | **Developing an eDNA Metabarcoding Assay to Differentiate Coregonines**  Author(s): Sweeney, Joseph Mentor(s): Sard, Nicholas | Coregonines (genus Coregonus) populations have drastically declined in the Great Lakes, largely due to anthropogenic factors. Sampling rare taxa via environmental DNA (eDNA) methods can improve the odds of species detection. We will create an eDNA metabarcoding assay to target the ITSI gene to differentiate coregonines. |
| 83 | Biological Sciences | 2-3 pm, DFS Ice Arena | **Drepanosaur Reptile Fossils from the Triassic of Ghost Ranch, New Mexico**  Author(s): Wellman, Jack Mentor(s): Olori, Jennifer | Drepanosaurs are a group of reptiles that lived during the Triassic period, with much of their ecology and behavior hotly debated among researchers. I photographed a collection of drepanosaur fossils to compile an atlas of specimens for use in further research, uncovering more about how they lived. |
| 84 | Biological Sciences | 2-3 pm, DFS Ice Arena | **Effects of Soil Amended with Fungi and Springtails (Ceratophysella lilac) on Brassica rapa Growth.**  Author(s): Majeski, Aidan; Isles, Ajani Mentor(s): Hellquist, Eric | Subterranean invertebrates and fungi may facilitate plant growth through mycorrhizal networks and nutrient deposition, improving soil fertility. Brassica rapa (mustard) growth in soils amended with Ceratophysella lilac (springtails) and fungi were assessed. Initial results indicate that plants with springtails grew less, potentially as an artifact of experimental design. |
| 85 | Biological Sciences | 2-3 pm, DFS Ice Arena | **Exaptation of a non-canonical phosphatase restores gluconeogenesis in a fermentative yeast**  Author(s): Minns, Desirae Mentor(s): Fisher, Kaitlin | Gluconeogenesis, the biosynthesis of sugar, is an important metabolic pathway across all of life. Hanseniaspora is a genus of budding yeast that have lost FBP1, an essential gluconeogenic enzyme. We show that a species within this genus has restored gluconeogenic function via the exaptation of a Calvin cycle phosphatase, SHB17. |
| 86 | Biological Sciences | 2-3 pm, DFS Ice Arena | **The Impact of Increased KrsB Expression on Rap1 Mediated Substrate Adhesion of Wild-Type Dictyostelium discoideum**  Author(s): Arnold, Megan Mentor(s): Artemenko, Yulia | Kinase responsive to stress B(KrsB) negatively regulates cellular adhesion in the model organism Dictyostelium discoideum by an unknown mechanism. To determine if KrsB acts by inhibiting another adhesion regulator, Rap1, this study examined adhesion after induction of wild-type cells transformed with Rap1 and an inducible plasmid containing KrsB. |
| 2 | Biomedical and Health Informatics | 5:30pm-7pm, Syracuse | **Time Series Analysis and Forecasting of Cancer Incidence and Mortality Rates in the United States**  Author(s): Adebiyi, Oluwatosin Mentor(s): Bichindaritz, Isabelle | This project seeks to conduct an in-depth analysis of historical cancer data in the United States, employing sophisticated time-series analysis techniques. By discerning past trends and projecting future outcomes, the aim is to develop proactive measures to combat cancer incidence and mortality, addressing a longstanding global health challenge with strategic foresight. |
| 3 | Biomedical and Health Informatics | 5:30pm-7pm, Syracuse | **Internship as Pharmacy Data Analyst at SCHC**  Author(s): Bandi, Srujaneswar Reddy Mentor(s): Byeon, Boseon | This presentation describes the activities of an Intern Pharmacy Data Analyst at Syracuse Community Health Center. This internship aims to examine data from Health Center Pharmacy using various techniques, providing practical experience. Interns are responsible for analyzing and visualizing data to improve pharmacy operations. Data analysis involves creating outputs from unprocessed data to spot trends, pose new questions, and improve performance efficiency. The Visualization parameter enhances knowledge of pharmaceutical operations and provides participants with a clear vision. |
| 4 | Biomedical and Health Informatics | 5:30pm-7pm, Syracuse | **Data Analyst at Syracuse Community Health Pharmacy**  Author(s): Chandolu, Suvarna Rani Mentor(s): | This presentation describes an internship experience as an Intern Data Analyst at Syracuse Community Health Center. The goal of this internship is to analyze data and to generate outputs from raw data in order to uncover trends and raise new questions that aid in a better knowledge of the workflow, as well as the implementations required to improve performance efficiency. Visualization is essential for identifying trends and getting insights across multiple disciplines. |
| 5 | Biomedical and Health Informatics | 5:30pm-7pm, Syracuse | **Lung Cancer Survival Machine Learning Approach with Case Based Reasoning Framework**  Author(s): Desai, Mayur Mentor(s): Bichindaritz, Isabelle | With the advancement of the next generation sequencing, it is possible to profile genomes and epigenomes. This project takes one step further by using methylation sequencing to predict survival in Lung Cancer patients, by retrieving specifically tailored cases from the dataset with the help of Case Based Reasoning algorithm. |
| 6 | Biomedical and Health Informatics | 5:30pm-7pm, Syracuse | **Understanding Suicidality through Blood-based Transcriptomes and the BrainGENIE Algorithm**  Author(s): Gaitos, Gerald Mentor(s): Glatt, Stephen; Bichindaritz, Isabelle | Suicidality is considered a challenging global health problem affecting a spectrum of individuals across geographies, cultures, and socioeconomic statuses, presenting challenges in terms of diagnosis, treatment, and monitoring. This project explored the association of the imputed brain regional gene expressions and their corresponding pathways from blood-based transcriptomes with suicidality. |
| 7 | Biomedical and Health Informatics | 5:30pm-7pm, Syracuse | **Internship as a Health information Pharmacy Technician**  Author(s): Gollapati, Premchand  Mentor(s): Byeon, Boseon | The work of the internship as a Health Information Pharmacy Technician at Westside Family Pharmacy is described in this presentation. Utilizing the data from the Westside family pharmacy and analyzing it with various technologies to improve the practical experience is the goal of this internship. Understanding data from its flow to the output is made easier with the aid of data analysis. |
| 8 | Biomedical and Health Informatics | 5:30pm-7pm, Syracuse | **Heart Failure Prediction using Machine Learning**  Author(s): Khan, Naazneen Mentor(s): Bichindaritz, Isabelle | This capstone project creates predictive models to detect heart failure using machine learning. Data preprocessing, exploratory data analysis, model selection, training, assessment, and validation are used. Created models hold potential to support medical professionals in early detection of heart failure, enabling early interventions and enhancing patient outcomes. |
| 9 | Biomedical and Health Informatics | 5:30pm-7pm, Syracuse | **Internship as a Data Analyst at Assuaged Foundation**  Author(s): Pilli, Jasmitha Mentor(s): Bichindaritz, Isabelle | This internship focuses on refining Assuaged Foundation's digital presence through data-driven insights. Analyzing social media and website performance aims to elevate brand engagement and optimize marketing strategies. Through meticulous data analysis and visualization, it seeks to foster a healthier community and promote holistic wellness effectively. |
| 10 | Biomedical and Health Informatics | 5:30pm-7pm, Syracuse | **Designing and Implementing Phishing Detection Algorithms for Biomedical Systems in the age of Remote work during Covid-19: a Case study Approach with Proactive Countermeasure Development**  Author(s): Talluri, Nithej  Mentor(s): Byeon, Boseon | This research employs a multimodal approach, integrating case studies, a highly accurate machine learning model, and data visualization to combat phishing attacks. Achieving a 92.59% accuracy rate, the model demonstrates strong precision, recall, and F1-scores, enhancing real-time detection. Insights from literature review inform adaptable cybersecurity defenses against evolving phishing strategies. |
| 87 | Chemistry | 2-3 pm, DFS Ice Arena | **Development of a Degradable Polymer for Signal Amplification**  Author(s): McDaniels, Rebecca Mentor(s): Baker, Matthew | Recently, rapid and reliable medical diagnostics at home have become increasingly important. At-home tests allow people to seek early intervention. While at-home tests are becoming more common, several limitations remain, including long-term stability during shipping and storage. We aim to develop a new diagnostic method using selectively degradable polymeric materials. |
| 88 | Chemistry | 2-3 pm, DFS Ice Arena | **The Effects of Meditation on Stress: Hair Cortisol Concentration and Sequencing of FKBP5**  Author(s): Seale, Devon Mentor(s): Bendinskas, Kestas | We intend to help our collaborators assess the effects of meditation on physiologic stress. We are working towards sequencing the FKBP5 gene's SNP rs1360780 amplicon and measuring hair cortisol concentration in collected samples. Our research has achieved the successful amplification of the target sequence from salivary DNA. |
| 89 | Chemistry | 2-3 pm, DFS Ice Arena | **Road Salt Application and its Implications on Heavy Metal Mobility**  Author(s): Webb, Tenley Mentor(s): Schneider, Jeffery | An environmental study of road salt (NaCl) application was conducted on soil samples from SUNY Oswego campus. Groundwater and surface water were analyzed for Cd, Cr, Cu, Fe, Pb, Mn, Ni, and Zn with subsequent Pb analysis of soil to examine mobility of heavy metals in conjunction with NaCl application. |
| 90 | Chemistry | 2-3 pm, DFS Ice Arena | **C3 and CFH: Exploring the Interactions of Complement Proteins**  Author(s): Win, Debora; Streeter, Amanda Mentor(s): Koeppe, Julia | The complement system is a vital component of our innate immune system, inducing inflammatory responses. Understanding the regulation/interactions of the complement proteins is important to understanding inflammatory disorders. We do so by producing/purifying key complement proteins: C3 (activator) and CFH (regulator), and analyzing their binding interactions using surface plasmon resonance. |
| 56-61 | Collegiate Science and Technology Entry Program (CSTEP) | 11 to noon, Shineman Atrium | **CSTEP Annual Showcase (6 posters)**  Author(s): CSTEP Showcase |  |
| 91 | Computer Science | 2-3 pm, DFS Ice Arena | **Smart Weather Station - Did you bring an umbrella?**  Author(s): Artigas, Eduardo; Keel, Jacob; Rajguru, Param; Scott, Molly Mentor(s): Lee, Jaewoong | Weather stations are essential for modern individuals, providing current and future weather information. We've developed a website dashboard showing real-time weather data, including temperature, humidity, and atmospheric conditions. This user-centric product offers convenient features for users. |
| 92 | Computer Science | 2-3 pm, DFS Ice Arena | **VitalSense**  Author(s): Maslowski, Daniel; Ball, Jared Mentor(s): Lee, Jaewoong | Remote monitoring systems can assist healthcare providers in tracking patients' health, thereby reducing the need for in-person visits. We propose VitalSense, a system that stores and displays vital information on an LCD monitor, alerting patients of any deterioration. This enables patients to seek timely assistance, improving overall health management and significantly reducing doctor visits. |
| 93 | Computer Science | 2-3 pm, DFS Ice Arena | **Finance management app design**  Author(s): Kranthi Kumar Erra Mentor(s): Damian Schofield | This financial app design will help consumers manage budgets, this app will be linked to the user's bank account and keep track of income and expenses and will notify the user regularly with updates with ideas and tips on how to spend mindfully and remind them about the upcoming payments. |
| 11 | Curriculum & Instruction | 5:30-7PM, Syracuse | **Reap What We Sow: Youth Activism and Climate Literacy in the ELA Classroom**  Author(s): Lajza, Jacob Mentor(s): Fleming, Sarah | There is a space in the classroom, as in greater society, for empowered young activists to combat the climate crisis. This requires an adjustment to the relevant dialogue and an effective curriculum introduced to schools. This text proposes multimodal curricula for teachers to implement ecocritical literacy in their practices. |
| 12 | Curriculum & Instruction | 5:30-7PM, Syracuse | **Using Task Analysis in a Special Education Setting as a Form of Effective Assistive Technology**  Author(s): Lindsey, Nathaniel Mentor(s): Locquiao, Jed | New York State defines assistive technology as, “any item, piece of equipment, or product system, whether acquired commercially "off the shelf," modified, or customized, that is used to increase, maintain, or improve the functional capabilities of students with a disability” (NYSED, 2024, Educational Design and Technology). While teaching in a 15:1 science environment, many students have developing organizational, social, and academic skills in which educators need to explicitly teach. This research project focuses on providing a student with a low tech, physical organizational task related checklist to improve the focus student’s attentiveness, problem behaviors, and academic achievement. |
| 13 | Curriculum & Instruction | 5:30-7PM, Syracuse | **Utilizing Speech-to-Text for 8th Grade Student Struggling With Written/Typed Expression**  Author(s): Cuomo, Cherie Mentor(s): Locquiao, Jed | Research on implementing speech-to-text technology as an assistive technology tool for an 8th-grade boy (JO) with a learning disability. It addresses how this technology helps JO overcome spelling and writing challenges caused by his working memory, enhancing his expression to match his verbal abilities. |
| 14 | Curriculum & Instruction | 5:30-7PM, Syracuse | **Assistive Technology and Writing**  Author(s): Finger, Nicholas | I was able to use a word processor with functions such as word prediction, word banks, graphic organizers, speech to text, with a special education student who struggles to write. I found that the features increased the students' writing skills and increased their pace of writing. |
| 15 | Curriculum & Instruction | 5:30-7PM, Syracuse | **Assistive Technology: Coherence for Emotional Disabilities**  Author(s): Palumbo, Emileigh Mentor(s): Locquiao, Jed | A 15 year-old male student, classified with an emotional in an alternative educational setting lacks appropriate coping strategies that result in non-compliant behaviors. This student utilized the following assistive technology; a HeartMath sensor and the Inner Balance application to practice coherence during his daily transitions in order to increase his compliance. |
| 16 | Curriculum & Instruction | 5:30-7PM, Syracuse | **Teacher Residency: Literacy Assessment and Intervention Project**  Author(s): Bixby, Heather; DeNeve, Alyssa; Enigk, Cheri; Finerghty, Sarah; Haims, Brendan; Herlowski, Jeremy; Mitchell, MacKenzie; Noel, Haley; Page, Stephanie; Sovay, Abigail; Suleiman, Fuad; Svercel, Madison Mentor(s): Mazzye, Doreen | Teacher residents in the Childhood MST Program have identified a student in their school that, according to assessment data they administered, demonstrated Word Level Reading Difficulties. Residents analyzed data from multiple assessment measures to determine specific foundational skills that required reading intervention. Intervention lesson plans were developed and implemented over the course of three weeks. Then, the case study student was reassessed by the resident to determine if the student has made gains on the reading outcomes. Each presentation will describe specific objectives, pre/post assessment data, strengths, and areas of growth as the resident developed their skills as a literacy educator. |
| 17 | Curriculum & Instruction | 5:30-7PM, Syracuse | **Teaching Social Studies Through Local History**  Author(s): Angarano, Daniel; Austin, Samantha; Falkowski, Joseph; Fives, Alexander; Getz, Mackenzie; Miskell, Jonathan; O'Hern, Holly; Rivers, Alexis Mentor(s): Sterpe, Peter | MST Social Studies Methods students share some of the rich local history of Syracuse and Central New York, and some ways to use it to make Social Studies classes relevant and engaging for students. |
| 18 | Curriculum & Instruction | 5:30-7PM, Syracuse | **Assistive Technology for Students with Disabilities**  Author(s): Appleby, Lexi; Doner, Olivia; Flint, Kaitlin; Flores, Makayla; Hilker, Lucy; Mangione, Olivia; Newcomb, Jessica; Powers, Maisie; Quast, Matthew; Mentor(s): Finnerty, Megan | Each poster will present findings on the planning and instruction of assistive technology used to support a student with disabilities. Various assistive technology tools were chosen to support a range of students in completing an authentic writing activity. Unique examples of students’ work are incorporated into the individual posters. |
| 19 | Curriculum & Instruction | 5:30-7PM, Syracuse | **Improving Participation During Class Discussion**  Author(s): Dambra, Matthew Mentor(s): Fleming, Sarah | Incorporating discussion into the classroom allows students to engage with content while targeting higher levels of Bloom’s Taxonomy. There are several different ways teachers can incorporate discussions into their classrooms, and they all benefit from the increased agency provided to students through the democratic classroom. |
| 94 | Electrical and Computer Engineering | 2-3 pm, DFS Ice Arena | **Linear Emitter-array Ionic Lifter**  Author(s): Gallagher, Jack; Deosaran, Likashmi Mentor(s): Ieta, Adrian | Rotary ionic devices have recently come into research focus. We investigate the performance of an ionic propeller – toroidal ground system in a quest for optimization of the axial thrust. Configurations with multiple pin emitters on a 28.6 cm diameter propeller and a 30.5 cm inner diameter toroidal ground are investigated. |
| 95 | Electrical and Computer Engineering | 2-3 pm, DFS Ice Arena | **Linear Emitter-Array Ionic Lifter**  Author(s): Deosaran, Likashmi; Gallagher, Jack Mentor(s): Ieta, Adrian | A new-design ionic lifter was built and tested. We scaled up a small size prototype previously built in our lab. The ionic wind is generated by applying negative high voltage between linear emitters and parallel ground cylinders. Liftoff of the system was achieved proving the scalability of the original prototype. |
| 97 | Psychology | 2-3 pm, DFS Ice Arena | **Motor Inhibition and Switching in Variant Stop Signal Task**  Author(s): Gori, Angela Mentor(s): Hu, Sien | Motor switching involves interruption of a prepotent but inappropriate response and execution of the desired response. In this experiment, subjects completed the stop signal task and the stop signal response task in fMRI. Results showed the supplementary motor area and precentral gyrus involved in updating motor plans to switch actions. |
| 98 | Psychology | 2-3 pm, DFS Ice Arena | **Psychophysiological Responses to Trauma-Related Visual and Auditory Stimuli**  Author(s): Tinsley, Karissa; VanDamme, Cassandra Mentor(s): Moore, Ashlee | Electrodermal activity (EDA) and other psychophysiological measures of stress are often elevated in people who have experienced traumatic events. This study examines EDA response to video clips depicting interpersonal conflict while also examining auditory differences and trauma exposure. This research has the possibility to inform therapeutic interventions for trauma patients. |
| 99 | Psychology | 2-3 pm, DFS Ice Arena | **Qualitative Exploration of Parental Secure Base/Safe Haven Scripts in LGBTQ+ Students**  Author(s): VanDamme, Cassandra Mentor(s): Dykas, Matthew | LGBTQ+ youth often face hardships that their heterosexual and cisgender counterparts do not, making parental support important to their overall well-being. In this study, we adapted Waters and Waters's (2006) methodology to assess the ways in which these youth mentally represent such parental support through their cognitive secure base scripts. |
| 100 | Psychology | 2-3 pm, DFS Ice Arena | **Examining the Roles of Contextual Factors and Individual Differences in Sexual Interest Perception**  Author(s): Minnicks, Mason; Cook, Abigail Mentor(s): Ruckel, Lindsay | The current study examined the extent to which contextual factors (e.g., type of relationship, level of physical attraction, proximal environment) impact sexual interest perception among a sample of adults. This work also examines the degree to which individual differences in attachment, rejection-sensitivity, sexual narcissism, and sociosexuality predict sexual interest perception. Previous research, the current study's methodology, and the expected pattern of results will be discussed. |
| 101 | Psychology | 2-3 pm, DFS Ice Arena | **Warm Temperatures and Conflicting Social Motivations**  Author(s): Lindberg, Daniel; Oakes, Laura Mentor(s): Fay, Adam | Temperature can affect social cognition, but previous work has mainly focused on affiliation-seeking contexts. This project examined the effects of warmth when people are motivated to distance themselves from others, such as when pathogen threats are salient, on ambiguous social categorization in a minimal group paradigm. |
| 102 | Sociology | 2-3 pm, DFS Ice Arena | **Putting in the Work: Social Class and How it Affects Different College Relationships**  Author(s): Troendle, Olivia  Mentor(s): Estrada, Emily | This research proposal examines how people growing up in different social classes have access to different resources which impacts their upbringing. I expect to find that students from higher social classes put less effort into their relationships because they do not feel the need to. |