Conference Agenda

8 a.m. - 12 p.m. REGISTRATION
Science & Nursing Building Room 101 Lobby

8 a.m. - 12 p.m. MORNING PRESENTATIONS
Science & Nursing Building 127, 128, 129, 217

10 a.m. - 10:30 a.m. POSTER DISPLAYS
Science & Nursing Building Room 101 Lobby

12 - 1 p.m. LUNCH
Campus Center Emporium Grille

1:15 - 4:10 p.m. AFTERNOON PRESENTATIONS
Science & Nursing Building 101, 124, 128, 217

2:45 - 3:15 p.m. POSTER DISPLAYS
Science & Nursing Building Room 101 Lobby

www.kent.edu/stark/student-conference
Welcome to the 2017 Student Conference!

On behalf of the administration, faculty, and staff, I am proud to witness the high level of participation in this year’s Student Conference, as well as the broad range of intriguing topics that will be presented.

As the event sponsor, the Honors Program of Kent State University at Stark provides a forum for the campus community to not only celebrate students’ educational accomplishments, but also to learn from them. Whether you are a student attending this conference to support your peers or a faculty or staff member fostering the growth of a student you teach or assist, I applaud you for acknowledging the academic excellence of our student body.

To the presenters, you are role models to your fellow classmates, and you inspire all of us. Thank you for sharing your projects, theories, discoveries, and talents with us. We wish you great success in your academic endeavors.

Warmest Regards,

Denise A. Seachrist, Ph.D.
Dean and Chief Administrative Officer
Kent State University at Stark

The annual Student Conference is proudly sponsored by the Kent State Stark Honors Program.

www.kent.edu/stark/honors-program

Kent State University at Stark is the largest regional campus of Kent State University, serving more than 11,000 students each year, comprised of 6,600 enrolled in academic coursework and 4,500 enrolled in professional development courses, and offering bachelor's, master's and associate degrees, as well as the opportunity to begin coursework in 282 bachelor degree programs at Kent State University. The only public university in Stark County, Kent State Stark is nestled on a beautiful, 200-acre campus in Jackson Township. The Conference Center, which houses The Corporate University and the Small Business Development Center, is accredited under the stringent guidelines of the International Association of Conference Centers. Combining a top-quality major university with a community-oriented college, Kent State Stark serves our region as a key intellectual resource, providing access to academic, economic and cultural advancement through excellence in teaching and learning.

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Special Thanks

Ali Crum
Brielle Black
Keith Carl
Bert Crawford
Demi Edwards
Seth Marcum
Julie Spotts
Haley Walker
Kentanyl Weaver
Emily Weiss
Robb Schultz  Artwork on Display

Robb Schultz is a first year Kent State Stark student majoring in computer science. His main focuses are programming and 3D modeling, with an interest in videogame design.

Daphnie Neal  Artwork on Display

Daphnie Neal is a first year student at Kent State Stark. She is completing a major in Criminal Justice studies with a concentration in law and society. After she graduates, she plans to attend graduate school to become a lawyer. She enjoys reading, and volunteer work when she is not busy with work or school work.

Ellie Camerato is a second-year molecular and cellular biology major, minoring in chemistry and mathematics. Upon graduation, she plans to work in a laboratory setting for a year or two before returning to school to earn a Master’s degree in a biology field of interest to expand her career goals. In her spare time, she enjoys music and spending time with family and friends.

Jake Davis  Artwork on Display

Jake Davis is a first year Kent State Stark student majoring in computer science. His main focuses are programming and 3D modeling, with an interest in videogame design.

Kentlyn Weaver  Artwork on Display

Kentlyn Weaver is a fourth year Biology Pre-med student at Kent State Stark. He works on campus as a math and science tutor and has spent several semesters researching fly and butterfly mouthparts in Dr. Lehnert’s laboratory. Upon graduation, he plans to attend Veterinary school where he will study food animals and potentially enroll in a dual Ph.D DVM program.

Ellie Camerato  The Effects of Feminine Hygiene and Beauty Products on Vaginal Health

Moderator: Deirdre Warren

Abstract: The female reproductive system is a rather sensitive region compared to other parts of the body, and the vagina itself contains lactobacilli, which regulate the pH and overall vaginal ecosystem. The balance maintained by these microbes is easily disoriented, which can lead to vaginal infection due to pathogenic microbes prevailing over beneficial ones. The purpose of this research was to discover if the use of feminine hygiene products and beauty products leads to the increase in vaginal infections and that these infections do not solely arise based on the vaginal ecosystem itself. A large range of scientific and medical literature was examined for information on the correlation between product use and likelihood of infection, as well as risks associated with the ingredients in products used. A list of ingredients from some common products was also gathered and compared to information found in the literature. It was found that with only some instances of benefits of some female products, there is a strong correlation between the use of different products and the increase in vaginal infection, which can then lead to more major complications. There are alternatives that can be used in place of harmful products, but an overall increase and improvement on information available and education seems to be a key factor in decreasing these potential problems.

Ellie Camerato is a second-year molecular and cellular biology major, minoring in chemistry and mathematics. Upon graduation, she plans to work in a laboratory setting for a year or two before returning to school to earn a Master’s degree in a biology field of interest to expand her career goals. In her spare time, she enjoys music and spending time with family and friends.

Kentlyn Weaver  The Threats of GMOs

Moderator: Jennifer Cunningham

Abstract: This paper will focus on summarizing the threats of genetically modified organisms (GMOs) by critically analyzing the problems associated with them in our food industry. The problems associated with genetically modified foods, such as patents created by corporations, toxins, increased cancer risks and environmental hazards, outweigh the benefits of them in our food industry. This paper discusses these arguments and the effects GMOs have on humans and the environment. Moreover, biotechnology companies create patents on genetically modified crops, which harms local farmers with the threats of litigation for inadvertently using patented seeds. Health risks such as toxins and increased risks of cancer also threaten humans who consume genetically engineered crops. The implications surrounding these health risks have caused other countries like the European Union and Canada to ban GMOs. Environmental hazards contribute to a decrease in insect and plant populations. This paper expands on the importance of individual actions to help deter GMOs from threatening our world.

Daphnie Neal is a first year student at Kent State Stark. She is completing a major in Criminal Justice studies with a concentration in law and society. After she graduates, she plans to attend graduate school to become a lawyer. She enjoys reading, and volunteer work when she is not busy with work or school work.

MUSIC PERFORMANCES

UPCOMING

MUSICAL PRESENTATIONS

COMMERCIAL MUSIC ENSEMBLE CONCERT #2
Thursday, April 27 at 7:30 p.m. // Main Hall Auditorium
FREE, No tickets required

THE FRENCH CONNECTION
University Chorus, Kent Chorus and Kent State Stark Chorale Concert
Friday, April 28 at 7:30 p.m. // Main Hall Auditorium
FREE, No tickets required

KENT STATE STARK CONCERT BAND
University Chorus, Kent Chorus and Kent State Stark Chorale Concert
Tuesday, May 2 at 7:30 p.m. // Fine Arts Theatre
FREE, Tickets are required*

THANKS FOR THE MEMORIES: A FAREWELL CONCERT
The Lyric Theatre Ensemble
Friday, April 28 at 7:30 p.m. // Main Hall Auditorium
FREE, No tickets required

* Tickets available Monday, April 24 by calling the Fine Arts Box Office at 330-944-3348 weekdays from 1-5 p.m.
Abstract: Joan Jett’s journey embodied the journey of the Women’s Liberation Movement, also called the second-wave feminist movement, which demanded equal rights for women in both public and private spheres. Joan Jett is known as an icon for the Riot Grrrl Movement, also called the third-wave feminist movement, an underground feminist punk movement that combined feminist consciousness, punk style and politics. Jett and the movement have comparable journeys because they involved women who struggled for equality. Both entities challenged the traditional definition of the word “woman.” Both were slammed by critics who said they did not have the right to self-determination and should be denied equal opportunity because they were women. Through the use of secondary sources to provide context and arguments, I will then use primary sources to provide evidence to the arguments. After applying this methodology, it will be clear how Joan Jett’s journey embodied the journey of the Women’s Liberation Movement. The journeys of the Women’s Movement and Joan Jett are significant to the lives of women because both laid the foundations for the progressive movements and social change of the present day.

Stacey Shelton is a senior at Kent State Stark. She will complete her bachelor’s degree in history this summer. She enjoys listening to music, hanging out with friends, and playing sports when she is not busy with school work.

Glorianne Earley is a senior Honors student at Kent State University. She is completing a B.M. in music composition. Currently, she is studying composition with Dr. Frank Willey. Following graduation, she plans to attend graduate school to pursue a Master’s degree in music composition.

Gregg Giegel is a fourth year student at Kent State Stark. He is completing a B.M. in music composition. Currently, he is studying composition with Dr. Frank Willey. Following graduation, Tim hopes to either teach English abroad or work at the U.S. Department of State. He enjoys reading, outdoor recreation, music and traveling.

Timothy White is a fifth year student at Kent State. He is completing a major in History with a Minor in Russian studies. He also has completed a certificate to teach English as a foreign language. After graduating, Tim hopes to either teach English abroad or work at the U.S. Department of State. He enjoys reading, outdoor recreation, music and traveling.
Emily Weiss is a junior Applied Communication major here at Kent State University at Stark. Upon graduation, she plans to work as a journalist, art director, or public relations specialist. In the future, she looks to produce a book focusing on her travels and experiences in China and its culture, my goal is to enlighten others about what I have experienced and researched about the eastern culture and the people who live there. She is also involved in the leadership and planning of the campus chapter of Kappa Delta Rho, a national professional fraternity. Her other interests include: performing on stage, taking photographs and experiencing new adventures with her family. 

Daniel Muhich is a senior at Kent State Stark. He is completing a major in history in Spring 2017. His academic work has focused on the topic of Khrushchev and the Hungarian Revolution, and he plans to pursue graduate studies and a career in international relations. His research has been published in reputable academic journals and presented at conferences. His work has also been featured in national and international media outlets. He is currently working on a book manuscript about the revolution and its implications for modern-day politics. He is committed to promoting a deeper understanding of the past and its relevance to the present. His work has been supported by a grant from the National Endowment for the Humanities. 

Amanda Large is a senior history major at Kent State Stark. He is currently working towards earning a bachelor's degree in English. When not working on schoolwork, Amanda enjoys going out with friends, binge-watching his latest Netflix obsession, and being the first in line to see the latest superhero movie.
Elemental Composition of the Ovipositors of Periodical and Annial Cicadas

**Moderator:** Clarke Earley

**POSTER DISPLAYS**

Fredrick Hutson

Butterfly Wing Scale Shape: Phylogenetic Relationships or Convergent Evolution

Abstract: Metals, such as zinc and manganese, are found in the cuticle of insect structures that are adapted for cutting or piercing substrates. Termite mandibles, for instance, have metals in the cuticle, which provide increased hardening necessary for chewing on wood. Cicadas are known to oviposit (lay eggs) in woody branches. We hypothesized that cicadas have metals in the cuticle of their ovipositors, increasing individual fitness by strengthening the cuticle to improve successful oviposition into hard wood. Energy dispersive x-ray spectroscopy (EDS) and scanning electron microscopy (SEM) were used to determine the elemental composition of the cuticle of ovipositors of periodical and annual cicadas. We hypothesize that elemental distribution varies among different structures on the ovipositor and between genera. Manganese, calcium, and potassium, and other elements related to cuticle hardening were found in varying concentrations along ovipositors of all cicada species, with greater metal deposits at the distal regions.

Following this presentation, Kristen will have a poster on display from 2:45 - 3 p.m. in the Science & Nursing room 101 lobby.

Kristen Reiter is a graduating senior completing Bachelor’s degrees in Organismal Biology and Biological Anthropology. She will begin her Masters in Entomology at University of Illinois in the fall. Her research focuses on function and properties of small scale structures on insects. Her interests include reading, drawing, film, music, and critters.

**10 - 10:30 a.m.**

**POSTER DISPLAYS**

Abbigail Erb

Parental Presence During Pediatric Care

Stephanie Hann

Regina Hersherberger

Jasmine Hye

Abstract: As nursing students interested in careers in pediatric nursing, we wanted to understand the implications and evidence-based research behind having parents present during their child’s invasive procedures and how it corresponds to safe nursing practice and improved patient/parent satisfaction. We conducted a literature review of the current research and literature from the last five years, including randomized controlled trials, literature reviews, qualitative descriptive studies and reports of expert committees. We found that the choice for parents to decide whether they are present during their child’s procedure corresponded to higher levels of satisfaction with their child’s overall care. While parental presence did not improve the child’s experience, it did allow parents to move from a bystander role into a more active role in their child’s care. Based on our findings, we found there is enough evidence to change current practices.

Abbigail Erb is a senior nursing student at Kent State Stark. After she graduates, she hopes to obtain a job working as a nurse within pediatrics, and one day obtaining her masters degree to become a pediatric acute care nurse practitioner.

Stephanie Hann is a third year nursing student at Kent State Stark and is the mother of three young children. After she graduates, she plans to provide high quality nursing care to children and their families in the hospital setting.

Regina Hersherberger is currently a junior in the nursing program at Kent State Stark. After graduation, she hopes to work in pediatric or obstetric nursing care. Regina and her husband have five children who keep their lives busy. She enjoys reading, anything home decorating/renovation related and spending time with her family.

Jasmine Hye, a third year nursing student, is a mom of three. She believes in a healthy lifestyle and tries to pursue it as much as possible despite the stressors that come along with nursing school. Upon graduation, she plans to pursue a career in the emergency room or pediatrics out of state.

**101 S&N**

**2:45 - 3:15 p.m.**

**SCIENCE & NURSING BUILDING ROOM 101 LOBBY**

Jessica Dudley

Brachiopoda and Bryozoa: The Link Between Lineages

Abstract: The main objective of this project is to discover supporting evidence that the seemingly different aquatic invertebrates, Brachiopoda and Bryozoa, are related via a single characteristic feeding organ. The list of organisms that belong to the superphylum Lophotrochozoa is extremely limited, even though their morphologies are vastly different. Through various microscopy techniques, feeding organs are examined and compared as evidence of the link between lineages.

Jessica Dudley is a senior at Kent State and is majoring in Geology. After she graduates she plans to attend graduate school to pursue a degree in Biology. She is very passionate about the workings of the Earth, and is interested in anthropogenic climate change and its effects on biological processes. When she is not busy with school or work, Jessica enjoys kayaking, hiking, and improving her skills at carpentry.

**Parental Presence During Pediatric Care**

Fredrick Hutson

Architects of the Holocaust

Moderator: Shelley Blundell

Abstract: The presentation will be on several of the key architects of the Holocaust, and the key ideas will be based on the events leading up to the beginning of the concentration camp system, specifically Auschwitz. Notable events will include the passing of the Nuremberg Laws, which sought to identify Jews in German occupied territories, the formation of the Einsatzgruppen, or mobile killing units, first formed in Soviet Russia. Living conditions in the camp system will also be explored, in order to include work details, and the gas chambers. The methodology employed by the Nazis to gas millions of Jews during this time will be scientifically broken down. It is widely known that throughout the concentration camp system medical experimentation took place on an unprecedented scale. Several of the major figures involved in conducting these experiments, such as Josef Mengele, will be explored as well as the types of procedures performed.

Fredrick Hutson is a junior at Kent State Stark, majoring in psychology, with a pre-med concentration. He has applied to NEOMED over the winter break, and is hoping to gain acceptance for the fall of 2018.
Daniel Casey

Pokémon GO’s Impact on the Frequency of Face-To-Face Interactions Among Users

Abstract: This research project examined the impact mobile app Pokémon GO has had on its user’s frequency of face-to-face interactions. We wanted to see if the app was encouraging users to interact more with other users.

Daniel Casey graduated from Kent State Stark in fall 2016 with a BA in communication studies and a concentration in interpersonal communication. During his time at Kent State Stark he acted as the president and founding member of the Kent State Stark Comm Club. Currently, he is looking to attend graduate school in the fall of 2017 to pursue his dream of becoming a college professor. In his free time he enjoys running, rock climbing, reading, and playing video games.

Amanda Powell

Nitrite (NO2) - and Nitrate (NO3) Productions in Nitric Oxide Synthase (NOS)

Abstract: Nitric oxide (NO) is a product of nitric oxide synthase (NOS). NOS catalyzes the oxidation of L-arginine to form NO. NO plays important roles in the cardiovascular, nervous and immune systems. To form NO, there must be an electron transfer between the oxygenase and reductase domains. The electron flows from NADPH to FAD, FMN and the oxygenase domain heme during catalysis. The NO that is released can be further oxidized to form nitrate, while heme-NO complex can also be converted to nitrite. We will focus on the percentage of nitrate and nitrite productions that occur in the three NOS isoforms. Our preliminary data indicated that more nitrate than nitrite was produced in both iNOS and nNOS isoforms. Experiments using NO donor (NOC-12) are still undergoing.

Amanda Powell is a senior majoring in business management and minoring in chemistry. After she graduates, she plans to attend medical school. She enjoys working, playing piano, and taking her dog on walks when she is not busy with school.

Bert Crawford

Effect of Phytochemicals and Endocannabinoids on Ovarian Cancer Cell Proliferation

Abstract: The phytochemicals tetraydrocannabinol (Δ9-THC) and cannabinoid (CBD) and the endocannabinoids anandamide (AEA) and 2-arachidonoylglycerol (2-AG) exhibit antiproliferative effect on cancer cells derived from multiple organs, including thyroid, brain, prostate and breast. Therefore, I hypothesized that ovarian cancer cell proliferation will be also inhibited by these cannabinoids. To test my hypothesis, I carried out the experiments as follows: Subconfluent SKOV3 ovarian cancer cells were incubated with the above cannabinoids in serum-free medium for two days. Subsequently, both qualitative and quantitative methods were used to determine the effects of these compounds on the cells. THC and CBD and R1 methanandamide (MEA), a metabolically stable analog of anandamide, inhibited cell proliferation and induced rounding and detachment of the cells. 2-AG, however, exhibited no antiproliferative effect. The differential effects of cannabinoids on SKOV3 cell proliferation partly support my hypothesis.

Bert Crawford is a senior at Kent State Stark. He is majoring in biology with a minor in chemistry. He plans on applying to medical school this summer and is currently working on studying abroad in China for the fall. Bert enjoys movies, listening to music, exercising and spending time with his family.

Rebekah Snyder

Investigation of Minimal Media and Chemical Stress on Antibiotic Sensitivity of Pseudomonas putida and Pseudomonas fluorescens

Abstract: The genus Pseudomonas contains many species that range from harmless commensals to antibiotic-resistant pathogens. The most dangerous group is Pseudomonas aeruginosa, a leading cause of concern as the source of many antibiotic-resistant infections. Pseudomonas putida and Pseudomonas fluorescens were used in this study as they exhibit properties similar to those of P. aeruginosa without the issue of pathogenicity. Previous studies with non-pathogenic organisms such as Escherichia coli and Staphylococcus epidermidis have shown an increase in antibiotic sensitivity when grown in the presence of sodium acetate, a known chemical stress agent, on complex media. This project is designed to study the effects of sodium acetate as the sole carbon source on antibiotic sensitivity of Pseudomonas putida and Pseudomonas fluorescens grown on M9 minimal medium. Antibiotic sensitivity is measured using the standard Kirby-Bauer method.

Rebekah Snyder is a senior at Kent State Tuscarawas, majoring in Veterinary Technology. After she graduates she plans to continue her education with a bachelor’s degree in biology and potentially graduate school. Her interests are in lab animal and large animal research. While not in school she enjoys volunteer work and spending time outdoors.

Courtney Kasturiarachi

Florence and Forensics: The Importance of Study Abroad

Abstract: This poster presentation will display the importance of travel and study abroad. As a first-year student here at Kent State University, I will have my first opportunity to study abroad this summer at the Florence Institute. This poster includes information from my previous travels to Sri Lanka, Spain and Portugal and the experiences that I have gained. I will especially focus on the culture and unique aspects from each country. In Florence I will be taking a unique new class called, FACES: Human Head Anatomy with a Forensic Art Focus. I will provide the details and pictures from this class that Dr. Linda Spurlock will be teaching this June.

Courtney Kasturiarachi is a sophomore at Kent State University Honors College. She is majoring in anthropology with a concentration in biological sciences (B.S.). After graduation she hopes to obtain her Master’s degree in genetic counseling. Her interests at the Kent Campus are genetics, dance, and activities with her hall council and interhall council communities. Courtney is traveling to Florence in summer 2017 to attend the Florence Summer Institute Program.

Bert Crawford

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Abstract: The phytochemicals tetraydrocannabinol (Δ9-THC) and cannabinoid (CBD) and the endocannabinoids anandamide (AEA) and 2-arachidonoylglycerol (2-AG) exhibit antiproliferative effect on cancer cells derived from multiple organs, including thyroid, brain, prostate and breast. Therefore, I hypothesized that ovarian cancer cell proliferation will be also inhibited by these cannabinoids. To test my hypothesis, I carried out the experiments as follows: Subconfluent SKOV3 ovarian cancer cells were incubated with the above cannabinoids in serum-free medium for two days. Subsequently, both qualitative and quantitative methods were used to determine the effects of these compounds on the cells. THC and CBD and R1 methanandamide (MEA), a metabolically stable analog of anandamide, inhibited cell proliferation and induced rounding and detachment of the cells. 2-AG, however, exhibited no antiproliferative effect. The differential effects of cannabinoids on SKOV3 cell proliferation partly support my hypothesis.

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Daniel Casey graduated from Kent State Stark in fall 2016 with a BA in communication studies and a concentration in interpersonal communication. During his time at Kent State Stark he acted as the president and founding member of the Kent State Stark Comm Club. Currently, he is looking to attend graduate school in the fall of 2017 to pursue his dream of becoming a college professor. In his free time he enjoys running, rock climbing, reading, and playing video games.
Nathan Haas
Fluorescence Microscopy

Abstract: I investigated different types of protists using fluorescence microscopy, namely paramaecium, Euglena, and amoebas. Every organism has its own chromosome number. For instance, humans have a chromosome number of 46, or 23 pairs. Paramaecium has a chromosome number of 40, Euglena has a number of 45, and amoeba has a number of 500. My main objective was to correlate chromosome number to the relative size of the nucleus for each protist. My hypothesis is that the higher the chromosome number, the larger the nucleus will be.

Nathan Haas is a senior at Kent State Stark who is majoring in Geology. He always loved collecting rocks as a kid and plans to follow his dad's footsteps in the oil and gas industry after graduation. Nathan likes playing video games, hiking, fishing, auto detailing, and enjoying the outdoors when he is not busy with school or work.

Madison Hoenes
Obstetric Clinical Case Study: A 26-year-old Woman with Placenta Previa

Ryan Few

Abstract: Obstetrics is a unique discipline of healthcare in which nurses play a crucial role in the childbearing experience. The labor and delivery nurse is expected to utilize current evidence based practice and think critically to provide safe, effective, patient-centered care throughout the antepartum, intrapartum, and postpartum periods. This case study investigates a 26-year-old, Caucasian female diagnosed with placenta previa and her newborn. We selected this client as the focus of this case study due to her poor prenatal care, risk for preterm delivery and psychosocial disorders. The client was diagnosed with placenta previa in her second trimester, allowing us to further explore the condition, including the pathophysiology and symptoms of a low-lying placenta, risk factors associated with its development and the best indicated maternal and fetal treatment. We aimed to gain knowledge about nursing care during the labor and delivery period by studying and analyzing the collected laboratory data, diagnostic tests and results, medications and assessments of the client to formulate nursing diagnoses and interventions to aid in the promotion of a safe and healthy postpartum period. This poster presentation will serve as a visual aid to explore the pathophysiology and care of our client, a high-risk individual, through her pregnancy and delivery, as well as postpartum care and concerns.

Madison Hoenes is a junior in the nursing program at Kent State Stark. After graduation, she hopes to work in either obstetric or pediatric nursing, and plans to attend graduate school to become a Nurse Practitioner. She enjoys photography, is a member of the Honors College, and serves as Vice President of the Stark Campus Undergraduate Student Government.

Ryan Few is a junior at Kent State Stark majoring in nursing. After graduating with his BSN, he plans to work on an oncology unit. He then intends to continue his education and attend graduate school for a degree as a Nurse Practitioner. He is currently a member of the Honors College at Kent State Stark and is a Front End Coordinator and Cash Office Assistant at the Market District. His interests include bowling, kayaking, playing basketball, and just about anything else outdoors.

Adam Behringer
Determining Paleodepth by the Examination of Microfossils

Abstract: Foraminifera are an amazing group of animals. Despite their microscopic size, they have had a large impact on our understanding of climate and ocean history. Studying the diversity of Foraminifera, their abundance, and complex morphology, scientists have been able to write crucial theories pertaining to paleoclimatology and paleoceanography. The oxygen isotopes of their tests indicate past climatic conditions. In addition, their speciation and age in the fossil record provide a record of past ocean depths and conditions as certain species occupy particular depths and temperatures. The relationship Foraminifera have with special oceanic environments has made their study a useful tool in locating and extracting hydrocarbons.

Adam Behringer majoring in Geology with a Minor in Biology at Kent State Stark and he is in his senior year. After he graduates, he plans on going to grad school to further his education with a focus on oceanography. I enjoy hiking and being outdoors while at school and as well as his free time. He plans to move out the west or east coast after grad school to pursue his career as an oceanographer studying microfossils with regards to past climates.

Jennifer Sveda
Witches and Working Women: How the “Myth” of the Midwife-Witch Gave Birth to Mid-Midwifery

Rylie Woods
College Student Mental Health and The JED Campus Program

Abstract: The European witch-hunt of 1450-1750 CE resulted in the executions of thousands of accused witches and also transformed the psychological, social and cultural landscape of Europe. One significant change is the decline of female midwives in the late 17th century. The ties between midwifery and witchcraft, though clearly highlighted in anti-witch literature and beliefs, have not been sufficiently explored by historians as a factor contributing to the decline of female midwifery and the subsequent rise of the man-midwife. Rather, historians have dismissed this connection, citing the low number of midwives tried for witchcraft, especially in England, the country studied here. Thus, historians have ignored the impact of internalized cultural beliefs that manifested in distrust and fear of female midwives. This slideshow presentation explains how expectations of midwives, witchcraft beliefs, and the practice of man-midwives interacted to ultimately undermine women’s role as midwives, leading to their replacement with male doctors.

Rylie Woods is a senior psychology major with a minor in interpersonal communication. She is involved in the Honors Program, BrainStorm (formerly Psychology Club), and has two on-campus jobs as a Campus Ambassador and as a Peer Advocate. After graduating and gaining experience in the field, Rylie plans to attend graduate school to pursue a master’s degree in higher education.

Alex Kiel
Literature of Thomas Paine

Abstract: My presentation covers the literature of Thomas Paine and it’s predecence on the society in which we live. I believe that his work has long been overshadowed by time and willful ignorance. The man who I am presenting about was a founding member of the first abolitionist society, along with Benjamin Franklin, and was a violent critic of theocracy and divine right to rule. He championed the power of the individual. His work helped fuel our war of revolution against the English crown and helped ignite the fire of reason which inspired another generation of free thinkers. It absolutely amazes me that there was a man who existed with these opinions over 200 years ago.

Alex Kiel is majoring in psychology and minoring in history. He says, “I really like reading Christopher Hitchens, Thomas Paine, and Sam Harris. I plan on going to graduate school after I graduate, but I am not sure for what. I have traveled to over two dozen countries and a dream of mine is to travel to all 7 continents. A quote that has really helped me through life is, ‘Life is 5% what happens to you, and 95% what you do about it.’”
**Rewards of Being Women in the Space Program**

Sydney Ziss, 101 S&N

Moderator: Brad Shepherd

Abstract: This video takes a look into how society relates happiness with beauty. We are shown that beautiful people are happy, but that does not mean that to be happy, one must be beautiful. Body confidence has become a big movement in the past few years, but there is still a long way to go. Pictures of models in magazines, the actors on television, and the people on the runway all influence children and teens - more than one would expect. Unfortunately, eating disorders are prevalent in teens partially due to the slim models seen on the daily. The reason we are told that beauty brings happiness is because it does. Beauty does not always mean the standard seen in magazines, it can mean beautiful scenery, a place you find relaxing or a meal with your family. Beauty is all around us. We need to begin looking for beauty in the places and faces around us and the beauty in ourselves will shine through.

Sydney Ziss is a College Credit Plus student in her junior year of high school and first year of college. She is majoring in Engineering Technology and aims to work for a gaming company after graduation. Her interests include art, gardening, and cooking in her free time.

**The Women of NASA: The Six Women of TFNG and the Effects, Challenges and Enduring Rewards of Being Women in the Space Program**

Raya Williamson, 124 S&N

Moderator: Haithem Zourrig

Abstract: From the feared warrior and noble savage to the Indian princess and helpless squaw, American Indians have fallen into constructed stereotypes on film. These constructs, which began with the arrival of Europeans to the New World, eventually formed the 'Hollywood Indian,' a culmination of the Native stereotypes represented throughout American film history. Audiences were thrilled with the grand conquests, adventures, and heroes of Western-era films; however, others viewed the films as consistent reminders of defeat, betrayal, and unimaginable loss. Many are familiar with the cultural wrongdoings of Western-era films, but where does the Hollywood Indian live in our modern-day films? How do the films impact society? In my research presentation for the Student Conference, I will analyze American Indian representations in film and their societal impacts - from 1930 to present. I argue the era, despite its faults carried from earlier Western films, caters to a consumer-driven period for authenticity.

Raya Williamson is a senior at Kent State University at Stark. She is completing a major in marketing and a minor in English and plans to move to Columbus after graduating. Her interests include movies, spending time with friends and family, and scrapbooking.

**History of the Aggression of the Kennedy Administration Played a Major Part in the Soviet’s Building the Berlin Wall**

Adrien Whitmore, 101 S&N

Moderator: Claudia Gomez

Abstract: The “thirty-five new guys”, affectionately known as TFNG, was the first group to include African American astronauts, Asian American astronauts, and the first official class of trainees for NASA’s space program. TFNG were the first class of astronauts since the Mercury 7 astronauts; however, others viewed the films as consistent reminders of defeat, betrayal, and unimaginable loss. Many are familiar with the cultural wrongdoings of Western-era films, but where does the Hollywood Indian live in our modern-day films? How do the films impact society? In my research presentation for the Student Conference, I will analyze American Indian representations in film and their societal impacts - from 1930 to present. I argue the era, despite its faults carried from earlier Western films, caters to a consumer-driven period for authenticity.

Adrien Whitmore is a senior at Kent State University at Stark. She is completing a major in Zoology. Her interests include Animal behavior, evolutionary biology, wildlife biology, and genetics. After graduation she plans to go to graduate school in Fall 2018.

**Microscopy**

Adrien Whitmore, 108 S&N

Moderator: Mary Gallagher

Abstract: Polyplody occurs when an organism contains more than two sets of chromosomes. One example of polyplody is found in strawberries, which can have up to eight sets of chromosomes (octoploidy). It is expected that the size of the nucleus will be in direct relationship with the amount of DNA it contains, therefore, it is hypothesized that a strawberry with additional sets of chromosomes will have a larger nucleus. This will be tested using confocal microscopy in which the nucleus of cells from strawberries with different ploidy will be viewed and compared. Their cells will first be stained to cause the nucleus to fluoresce, and those cells will then be viewed simultaneously to make a direct comparison between the sizes of the nuclei.

Adrien Whitmore is a senior at Kent State University at Stark. She is completing a major in Zoology. Her interests include Animal behavior, evolutionary biology, wildlife biology, and genetics. After graduation she plans to go to graduate school in Fall 2018.

**How the Aggression of the Kennedy Administration Played a Major Part in the Soviet’s Building the Berlin Wall**

Jacob Dessecker, 127 S&N

Moderator: Scott Tobias

Abstract: This presentation will be about how the Kennedy Administration played a major part in giving the Soviets a reason to build the Berlin Wall. To prove the reasoning for this, it will be backed up by looking at major events during the Cold War: the Vienna Summit, the aftermath of the Bay of Pigs Invasion and the tensions surrounding the Cuban Missile Crisis. Primary sources are used whenever possible to support the argument presented.

Jacob Dessecker is a first-year student at Kent Stark but a fourth year student overall. He is completing his degree in History. After Jake graduates he plans on going back to school and receive his teaching certificate. As he plans on being a high school history teacher and coach sports. In his free time, Jake enjoys hanging out with friends, playing basketball, and being around his family.

**The North American Free Trade Agreement**

Adrien Whitmore, 108 S&N

Moderator: Claudia Gomez

Abstract: The present paper will discuss the“North American Free Trade Agreement,” widely known as NAFTA. It will first talk about the history of NAFTA, why it was created, and who was affected by its creation. Then the presentation will describe how NAFTA works and what the rules and regulations are for the agreement and how it is used in today’s world. My presentation will further highlight the criticisms of this free trade as pointed out by a section of economists. In conclusion, the future of the NAFTA will be delineated. Specifically how things may end up changing and the effects of potential new policy changes on NAFTA.

Adrien Whitmore is currently majoring in accounting as a first year student at Kent State Stark University. In the future, he plans to stay in Ohio and work for an accounting firm or for a business. In his free time, he enjoys golfing and playing basketball.
Valerie Kramer is a junior at Kent State Stark completing a major in Organismal Biology. She is the president of the campus Biology Club and is currently an Undergraduate Research Assistant studying various aspects of butterfly mouth parts. Valerie published one of her research projects in the Journal of the Lepidopterists’ Society in the Fall of 2015 and is working towards a second publication before she graduates. After graduation, she plans to attend graduate school for Conservation based Bio-mimicry.

**FOREIGN LANGUAGE GROUP**

**101 S&N** Moderator: Paula Santo

Leslie Wood Health Care in Uruguay

Abstract: I would like to do a brief presentation in Spanish about the health care system in Uruguay. It is a slightly expanded version of a speaking exercise from Intermediate Spanish II, dealing with Uruguay’s universal system of health care and insurance coverage. I will also make some brief comparisons with the current health care system in the United States, as well as some universal coverage systems from other major countries.

I initially took interest in this topic because of the culture section of the chapter we were covering in class. Also, my major is sociology with a concentration in medical sociology, and I am currently taking the Sociology of Health and Health Care, so I have had the opportunity to further research the health care system in Uruguay in relation to those in other countries for a comparative analysis project.

Leslie Wood is a senior at Kent State Stark. She is completing a B.A. in sociology with a concentration in medical sociology. She will begin the doctoral program of sociology at Kent State in the fall of 2017. She hopes to teach at the college level in the future, as well as perform social research primarily in the realm of health care and gerontology.

Gregg Giegel Les lieux et les choses célèbres de la Normandie (The famous places and things of Normandy)

Abstract: In this French language presentation, the region of Normandy and some of its most prominent landmarks are explored. Particular attention is paid to structures and events from the medieval period, a tumultuous time in Normandy’s history. The numerous fortifications and castles present in Normandy that were built by the Normans and later, the English, as well as the French, are the primary focus of the presentation. Some of the visited sites include: the abbey at Mont-Saint-Michel, the towns and cities of Caen, Rouen and Bayeux and a number of the aforementioned castles throughout the region. Viewers interested in travel or simply viewing a presentation in French may find this presentation useful and enjoyable. The wide variety of architecture present in the region is also examined.

Seth Marcum is a Senior Business Management student pursuing a minor in History. Next fall he plans to attend Akron Law focusing on Business and Constitutional Law. His major interests of study are related to administrative law and its impact on the states and individuals. He enjoys traveling with his fiancé and friends whenever possible.

**Valerie Kramer**

Isometric Growth Pattern Between Cabbage Butterfly (Pieris rapae) Larval Head Capsule Sizes and Bite Size

Abstract: Many species of butterfly larvae feed on vascular plant material, such as leaves, using mandibular mouthparts adapted for chewing through these materials. Larval growth is classified in terms of instars, which are separated by ecdysial events, where the larva molts its outer skin, including a head capsule that contains the mandibles. As larval instars progress in number, the larva and head capsule increase in size. I hypothesized that as the head capsule size increased, so would the bite size of the larva, producing an isometric relationship. Cabbage butterfly (Pieris rapae) larvae were fed a new cabbage leaf each day and the bite size on the leaf was quantified for each instar using confocal microscopy. After each molting event, the head capsule was collected and imaged with scanning electron microscopy and measured with ImageJ software.

Following this poster display, Valerie will present from 11:30 a.m. - noon. in Science & Nursing room 124.

**John C. Polles** Swords, Shields & Sex: Literary Knighthood and Medieval Constructions of Masculinity

Abstract: Over the last 100 years, you have been losing your voice simply for the sake of political convenience. Our Congress is delegating much of its power to the Executive Branch, threatening the Separation of Powers. The Supreme Court, unwilling to address the issue, adopted the Intelligible Principle Test without addressing the constitutionality of the delegation of power. This presentation explains the Judicial History which allowed Congress to delegate away its power. It provides proposed solutions to weaken Congress’ ability to delegate away our voice and to allow us to hold Congress accountable for controversial decisions they would rather delegate away.

Seth Marcum is a Senior Business Management student pursuing a minor in History. Next fall he plans to attend Akron Law focusing on Business and Constitutional Law. His major interests of study are related to administrative law and its impact on the states and individuals. He enjoys traveling with his fiancé and friends whenever possible.
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JUNIOR YEAR
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1 Honors course

Interested?

Contact Dr. Leslie Heaphy at lheaphy@kent.edu or 330-944-3304.

Kathryn Reiter

El Parque Nacional Torres Del Paine

Abstract: In my presentation, I will discuss El Parque de Torres del Paine, a National Park in Chile. The park is one of 11 protected wilderness areas of the Magallanes Region and Chilean Antarctica, which combined make up 51% of that region. It is one of Chile’s largest and its third most visited national park. There are a variety of surroundings found in the park including, mountains, valleys, lakes, rivers and glaciers. An edition of National Geographic named El Parque de Torres del Paine the fifth most beautiful place, and El Parque was also named the eighth Wonder of the World in 2013. At El Parque, tourists are able to camp, trek, kayak, go on horseback riding tours, ice walk and even bird watch. El Parque de Torres del Paine is a very important place of interest in Chile and it should continue to be preserved for its marvelous beauty.

Kathryn Reiter is a senior majoring in criminology and justice studies with a minor in pre-law. She plans to go on to law school and hopes to practice constitutional law. She is considering a future in politics where she can help to make the world a better place. In her free time, she enjoys listening to music and spending time outdoors.

Nicolas Curtis

Argentine Immigration (1890–1914)

Abstract: Throughout my honors course, I have been conducting research and synthesizing a report of my findings regarding immigration to Argentina between the years 1890 and 1914. My research especially surrounds the effects of these immigration groups on Argentinian culture and the economic prosperity during this period. Cause and effects of different racial and ethnic migrations to Argentina will also be discussed in order to understand the effects at a greater level. During the presentation, I will give a general review of my findings as well as enlighten the audience on current Argentine culture. I will also explain reasons I chose this topic as my Independent Study and how it will proliferate my success throughout my school career and my strides towards a degree in Spanish.

Nicolas Curtis is currently a sophomore, majoring in Spanish with a minor in education. He enjoys language as a whole, including musical expression and is working on learning a third language right now. He hopes to apply his skills as a high school teacher and eventually a professor.
**Using Cognitive-Behavioral Therapy to Prevent Suicide in Youth**

Kara Kimevski is majoring in Psychology with a concentration in Clinical/Counseling Psychology. She plans to pursue a Master’s degree in School Counseling at Kent State Stark. Kara enjoys reading, spending time with her family, and spending time with her friends.

**Abstract:** Suicide is highly prevalent among youth, and it is a topic that needs to be publicly addressed. Suicide is an unfortunate occurrence in the United States. My 20 minute oral presentation will discuss using cognitive-behavioral therapy (CBT) to prevent suicide in youth. CBT is a research-based psychotherapy that works on taking negative thoughts and behaviors and turning them into positive ones. By changing thoughts, it is possible to change behaviors. I will address how CBT is used in different ways, and how it allows comparing and contrasting of the different methods. The presentation will also discuss why teenagers attempt suicide and statistics about suicide in adolescents. Warning signs of suicidal thoughts will also be presented because it is important to recognize the signs before it is too late.

Kara Kimevski is majoring in Psychology with a concentration in Clinical/Counseling Psychology. She plans to pursue a Master’s degree in School Counseling at Kent State Stark. Kara enjoys reading, spending time with her family, and spending time with her friends.