2018
Program

April 17 & 18
Earlham College
EPIC Expo and Earlham Day

Earlham’s EPIC Expo is a two-day, campus-wide celebration of scholarship, creativity and excellence. This event enables students, staff and faculty to share their academic and creative works via panel sessions, performances, poster presentations, interactive workshops and other media.

This year, Earlham Day takes place in collaboration with EPIC Expo, making it a campus and worldwide celebration of Earlham experiences and excellence. Earlhamites will unite to honor and support present and future generations on this 27-hour giving day. Accept the challenge to be one of 1,060 donors who unlock $250,000 additional dollars for the Earlham Fund.

Unite! Give! Inspire!

Your Passport to Excellence

As you explore the offerings of EPIC Expo and the activities of Earlham Day, don’t forget to collect passport stickers at the different sessions and events. Prizes will be awarded based on the number of stickers you have collected. Students who collect seven or more will be entered into a grand prize drawing, which takes place at Wednesday’s baseball game. Prizes include a luggage set, a $200 bookstore credit, and an iPad Mini!
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For poster abstracts and additional information, please visit www.earlham.edu/epic-expo.

If you need assistance during the EPIC Expo with program related issues, look for EPIC Expo staff who will have special nametags. You may also contact the Earlham College Box Office in Runyan Center (x1474), contact Marya Bower, Senior Advisor for Integrative Education (x1438), or contact Corey Fritz, EPIC Programs Coordinator (x1367).
Creativity is on display in Leeds Gallery, the CVPA and the EH Airport Lounge as the senior class of the Art Department explores history, feminism, motion, transitions, and others topics, all skillfully demonstrated through various mediums.

Artists include:
Natalie Gillies
Rebecca Haflich
Amanda Johnson
Mia Kaplan
Johanna Monson Geerts
Kelsey Moore
Jalen Sleet

Tuesday, April 17
Opening Session
9:30 a.m. – 10:30 a.m.

Morning Beverages & Light Refreshments
9:30 a.m. – 10:00 a.m. | Carpenter Hall Lobby

Opening Plenary
10:00 a.m. – 10:30 a.m. | Goddard Auditorium

Music of the Caribbean with a Taste of American Popular Music
Performers:
Earlham Jazz & Latin Jazz Program

Introduction to EPIC Expo and Earlham Day
Speaker:
Alan Price, President of Earlham College
Optimal diet for colony growth of the common garden ant, *Lasius neoniger*

*Presenter:* Irving Barrera-Lopez  
*Keywords:* ant, biology, ecology, nutrition

With the worldwide abundance and success of ant species across varying environments, it brings up the question of whether or not there is an optimal diet independent of environment for a species of ant. The ant colony functions as a superorganism, with each ant in the colony acting for the benefit of the entire colony, as they are all highly related to one another, and each type of ant can eat and process certain diets. In this experiment we are looking for an optimal diet that benefits the colony as a whole. *Lasius neoniger* is a species of ant that is found across the United States and Canada, and is one of the most abundant species on the continent. In order to test for an optimal diet, we split up colonies into four treatment groups based on the ratio of protein to carbohydrates in their food and frequency of feeding. We had food treatments of 1:2, 1:4, 1:8 and 1:16 (Protein:Carbohydrate) that were each separated into three further treatments, fed twice a week, once a week, or once every two weeks. Every month, a census was taken of the number of workers in a colony; this was the main dependent variable we measured between treatments. We found that we have data that indicates that there are superior diets and feeding regimens in *Lasius* for overall colony health and growth.

Take Two Worms and Call Me in the Morning: The Implications of the Hygiene Hypothesis

*Presenter:* Noah Kelner

*Keywords:* Biology, Hygiene, Parasite, Immunology

The eradication of numerous infectious diseases in the developed world has been heralded as a public health achievement, but it may have unintended consequences. Autoimmune diseases are more prevalent in industrialized nations than in developing nations, despite improved sanitation and access to medical care. The hygiene hypothesis partially explains this discrepancy, which states that exposure to pathogens during childhood can protect against autoimmune diseases in adulthood. Parasites in particular are being studied for their role in immunological regulation, and the potential to be used as a therapeutic tool. Join me to learn about the latest research in the emerging field of hygiene theory, helminth therapy and their implications on global health.
Community Change in a Midwestern Forest Following Removal of *Lonicera maackii* (Caprifoliaceae)

**Presenters:**
Tung Phung, Brady Bubb, Emma Johnson

**Keywords:**
Natural sciences, research, independent study

In this study, we examined the effects of *L. maackii* within 4 mid-successional forest plots, 2 of which have had *L. maackii* removed annually since 2004. We investigated whether *L. maackii* poses great competition to both native adult trees and tree seedling by exploiting sunlight and soil resources, therefore reducing adult growth, seedling cover, and seedling distribution. Overall, our evidence indicates that *L. maackii* reduces native seedling height and density by shading and that *L. maackii* inhibits community successions. Its removal allows certain native tree seedlings to colonize. There was no indication of reduced adult tree growth in the presence of *L. maackii*. There was also no evidence that *L. maackii* changes soil organic matter, moisture, nutrients, or pH.

Role of nature and nurture for caste determination in *Pogonomyrmex barbatus*

**Presenters:**
Swati Pant

**Keywords:**
ecology, ant behavior, nutrition, biology

Nature and nurture can each have their own effect on the phenotype of an organism and the two can interact whereby the environment can change how the genes interact with each other. For example, in honey bees, genetically identical honey bees could have different phenotypes, queen or worker bee, based on the diet they received. Our hypothesis is that nurture plays a role in caste determination of harvester ants. Like honey bees, ants are eusocial insects. However, unlike honey bees, *Pogonomyrmex barbatus* harvester ants have genetic caste determination. In this dependent lineage system of caste determination, workers are produced as a result of inter lineage mating while queens are produced as a result of intra lineage mating. Even with a strong genetic component, the phenotypic plasticity of caste determination is not completely lost, as evidenced by rare inter-lineage queens and intra-lineage workers. Furthermore, queens and workers also have different ratios of nitrogen and carbon in their body, and assimilate qualitatively different diets. These observations suggest that there is nature and nurture interaction present, making harvester ants an ideal organism to examine the relationship between genetic and environmental interactions. We grew colonies of *P. barbatus* (J-lineage) on different diet treatments, with different protein to carbohydrate ratios. Treatments have been maintained for several generations of cohort production (~6 months) and here we report how available nutrients affect both colony growth (optimal diets) and caste determination.
Identity and Characteristics of Feathers Used in Tree Swallow Nest Lining Across Habitat Types

Presenters:
Caroline Wolfe-Merritt, Lilly Hartman

Keywords:
Tree Swallows, nesting, feather characteristics

Tree Swallows (Tachycineta bicolor) build their nests using dry grasses and a feather lining. It has been proposed that these feathers are a limiting resource which enhance reproductive success of Swallow pairs. There is little information about the identity and characteristics of the feathers that this species relies on for reproduction. Our goal was to characterize the feathers used as nesting materials within a 60-mile radius of Richmond, Indiana. We monitored 41 nest boxes and collected feathers to determine the number, sizes, colors, and types of feathers present. Feathers were identified using three complementary methods: microscopy, DNA barcoding, and comparison to museum specimens. Our results indicate that on average Tree Swallows use 77.34 ± 12.08 (SE) feathers in their nests. We found that the most common feather type, size range, and color, were contour (95.14%), 5-10 cm (62.66%), and brown (50.50%), respectively. There were significantly different numbers of feathers used in different habitats. We also identified a greater diversity of feathers than was previously recorded. Tree Swallows in our study site used feathers from 6 orders additional to those previously recorded. This is the first time this information has been reported for Tree Swallows.

Impact of Soil Quality and Population Density on Growth and Survivorship of Prunus serotina (Black Cherry) Trees

Presenters:
Castilleja Fallon Olmsted, Rachel Hunter Riggs

Keywords:
Black Cherry, Self-thinning, Prunus serotina, plants

Self-thinning occurs when a monospecific stand achieves such high density and biomass that the increased biomass cannot be supported without a reduction in density. Subsequently, the mortality rate in the population increases. Our study site was a nearly monospecific even-aged stand of Prunus serotina which grew in the back campus of Earlham College after the cessation of farming. Over the course of 30 years, many of the trees died and newcomers of a variety of species began to grow. The goal of this study was to understand what factors contribute to whether a particular individual lives or dies in a self-thinning situation and how community composition changes over time. Height, lowest living branch, and basal area were recorded for all trees in all plots semi-regularly. The 16 plots had varying densities and soil qualities. The species composition of the plots changed from nearly monospecific plots of P. serotina in 1987 to a more diverse composition 2016. Our results suggest that the variation of these traits in the P. serotina trees present in 1987 had an impact on which trees survived to 2016 and that density and soil quality together shape the survivorship and individual traits of the trees present.
Effects of hunting on White-tailed deer vigilance in Wayne County, Indiana

Presenter:
Eliza Balch

Keywords:
Animal Behavior

The White-tailed deer, *Odocoileus virginianus*, is known throughout the east-central region of the United States, due to their prolific populations and diverse habitat range. It is ecologically important to explore deer behavior and life history because their niches are shifting due to increasing urbanization and changes in predator dynamics. The dynamics between deer and humans are not well understood. In order to explore this relationship, we will measure predation risk through vigilance (head position) rates with respect to hunting season. Using 16 camera traps in a range of habitats, we will analyze photos to determine vigilance rates over time.
Personal Testimonials from Earlham’s Health Externship Program
10:45 a.m. – 11:45 a.m.  |  CST 103

Presenters:
Debbie York, Abhay Chaudhary, Ananda Mishra, Cavan Scheetz, Cyrus Buckman, Natalie Blatz, Shahed Sbeta, Abduselam Awol

Moderator:
Debbie York

Keywords:
Health Externship personal testimonials

Earlham College’s Health Externship Program has given Pre-Health Students great experiences to prepare them for a future career in the medical/health field. History and stats of the program will briefly be shared to help explain the impact this program is making in students’ lives. A short PowerPoint presentation will show pictures of each of the current providers involved in the program this semester. The panelists will share personal testimonies about their amazing health externship experiences including two testimonies regarding their Atlantis Clinical Fellowship experience. They will share insights and recommendations so new students to the program can maximize their future experiences. The audience will be given opportunity to ask any questions.

Nationalism in Historical Memory
10:45 a.m. – 12:00 p.m.  |  CST 314

Presenters:
Jackson Gage, Emma Maxwell, Erik Seketa

Moderator:
Elana Passman

Keywords:
history, nationalism, memory, Europe

Students from HIST 440: Historical Memory will present their research on the historical memory of nationalism. Jackson Gage will present on a monument given to the city of Chicago by Benito Mussolini to commemorate a fascist hero. Emma Maxwell will discuss her findings on linguistic nationalism in Lithuania. Erik Seketa will present on the memory of nationalism in Poland.
Exploring Careers in Museums and Libraries @ Earlham
10:45 a.m. – 12:00 p.m.  |  CST 315

Presenters:
Minda Dettman, Jade Pendleton, Eila Ahonen, Fiona Kelly, Karen Breece

Moderator:
Kate Blinn

Keywords:
career discernment, museums, libraries, snakes

Panelists will share how they’ve used internships and work experiences at Earlham to explore future career paths in museums and libraries. Two student panelists will discuss their 135-hour applied practicum working with Earlham librarians through the Kenlee Ray Library & Archive Fellows program. Kenlee Ray Fellows explore career opportunities in librarianship, network with alumni, develop job-seeking skills, and complete projects in different units of the library. They will share stories about juicy campus drama from archival files, the art of repairing books, and copyright issues relating to monkey selfies. Three student panelists from the Joseph Moore Museum will discuss their internships and work at the Joseph Moore Museum and other natural history museums. They will discuss various aspects of museum work including community education, collections management, live animal care, and exhibit design. Come learn what it is like to use a six-foot-long boa constrictor to teach 1st graders about reptiles or catalog unique collections like a six-legged lamb.

Senior SoAn Presentation
10:45 a.m. – 12:00 p.m.  |  Richmond Room, LBC

Presenters:
Fran Grauel, Antonio Maestas, Joely Rios, Meredith Beed, Camille Barnard

Moderator:
JoAnn Martin

Keywords:
Vines, Queer, Neoliberalism, Horses, New Mexico

The SoAn seniors will each give a 15-minute presentation on their senior research. Topics include:
1. Embodiment of pain, intimate physical contact, and sexuality on and off the field for female athletes in contact sports
2. Methods of surviving capitalist forms of production through meditative and centering activities
3. Power relations in human and horse relationships
4. Mercederos feelings about their land, the importance it has to them, their families, and their community as a whole
5. A critical look at the humor in Vines through historical lenses of comedy and ethics
Social Science Panel
10:45 a.m. – 12:00 p.m. | LBC 124

**P3's & Disruptive Innovation in Supply Chain**

*Presenters:*
Karun Rathi, Son Tran

*Moderator:*
Seth Powless

*Keywords:*
Shared Governance, Supply Chain, Disruptive Innovations (Drones etc.), Private-Public Partnership in USA

Public-private partnerships (P3s) in the U.S. stagnated or saw flat growth after 2012 for a myriad of reasons. With the new administration touting renewed emphasis and interest on P3s notably in the operations areas, a polarized industry culture remains skeptical. We introduce a shared governance model for how academicians might be the ideal change agent between P3 stakeholders.

**Youth Programs as a prevention for Juvenile Delinquency**

*Presenter:*
Jasmine Amos

*Keywords:*
Youth Programs, Juvenile Delinquency, Risk Factors, Chicago

This research is looking at the correlation between the availability of resources for youth and juvenile delinquency. It will be focusing on youth minorities and resources that support the youth in Chicago. One example of resources is youth programs. The reason behind this research is something that affects children every day. The youth in Chicago are in different situations; some youth have a support system and resources like youth programs, and some youth have to look at the streets for guidance. A child, such as this author, is lucky to have been a part of a youth program. Without such a youth program, that child might have been on a path of juvenile delinquency, although there are many other factors involved in affecting a person’s life. The research found that all the youth programs examined are positive contributions to children’s lives that will help them grow confidently, emotionally, academically, and mentally. Common factors among programs include: they are free of charge, provide free hot meals, have homework assistance, and mentoring services. One of the programs provide mental health service.
Religious Studies to Social Issues: Religion Senior Capstone Presentations
10:45 a.m. – 12:15 p.m.   |   LBC 201

Keywords:
religion, law, immigration, racism, sustainability, neuropsychology

Bordering on Transcendence and Transcending Borders: Anti-Religious Anarchist Humanitarian Aid Workers, Catholic Border Crossers, and Lived Possibilities for Border Justice Work

Presenter:
Rebecca Richeimer

This presentation examines the intersections of anti-religious Anarchist humanitarian aid workers and Catholic border-crossers with whom they interact. Given the traumatic nature of humanitarian aid work and given faith’s demonstrated ability to support border-crossers in their journeys, anti-religious sentiments of humanitarian aid workers may hinder the capacity to effectively provide humanitarian aid. By examining the Anarchist dimensions of Liberation Theology and faith roots of Anarchism, I suggest that faith and Anarchism are perhaps more compatible than often thought. Anarchist humanitarian aid workers need not conceptualize their politics through a lens of faith, but, it would be in the interest of their work to recognize the analogous transcendent gestures that comprise both radical humanitarian aid work and the journeys of border crossers.

Food for the Soul? Lessons and Problems in Using Rudolf Steiner for Regenerative Agricultural Projects

Presenter:
Marc Mathy

Today, local alternative agricultures in the United States find themselves at an important juncture, at a time when agribusinesses have co-opted the “Organic” label in an attempt to cash in on increasing awareness of food ethics. This presentation discusses the prospects and complexities of looking to the controversial Austrian philosopher Rudolf Steiner, founder of what is today known as the Biodynamic farming movement, in answer to this dilemma. In the 1920s, Steiner argued for an alternative to the rise of “materialist” agriculture, criticizing empirically derived understandings of food and farming while seeking to reanimate our relationships with Nature. However, Steiner’s intersections with movements for German nationhood, fascism, and his racist beliefs in Cosmic evolution through racial hierarchies highlight the importance of contextualizing Steiner within his wider body of works, as well as the need to critically examining our present relationships to food, politics, and ecology.

Buddhist Emptiness, White Supremacy, and the Evolution of Black Dharma

Presenter:
Izzi Wilhelm

Black Dharma has emerged as a response to white supremacy in white convert Buddhist communities in the United States. The concept of emptiness in Buddhist teachings has often been misapplied to support white racism and exclusion. I will give an account of the personal experiences of African American Buddhist practitioners that have led to the emergence and development of Black Dharma. Black Dharma is both a cultural phenomenon and a philosophy that has reinterpreted the concept of emptiness as one that recognizes the ways in which identity impacts one’s karma and journey to enlightenment.
Exposing Protestant Bias in America’s Legal System

Presenter:
Jaclyn Gormish

Despite the appearance of a secular state, the United States is still forged from a Protestant base and that influence persists in the notion of Civil Religion. One of the places this is most obvious and pressing is through the law. Early American court cases portray this bias best, but in many ways the standard of tolerance for non-Protestant religions has failed to be improved due to particular infused values. By looking at certain Supreme Court cases and viewing the law as a cultural system, the hidden Protestant bias becomes clearer. This is a detriment to the ideal of religious freedom, and there is danger in denying Protestantism’s enduring legacy.

The Cosmology of Neuropsychology: A Call for a New Paradigm of Care

Presenter:
Chiah Huff

This presentation will investigate the nature of reality and the behavior of religion in the brain. This investigation will reveal the need for a paradigm shift in the methods of psychological care. It is imperative that modern mental healthcare practitioners begin to better understand faith, how it works in the brain, and how to develop treatments that hold it in a place of importance. Psychological care that does not take a more holistic approach to treatment and include the spiritual health of the patient is not only outdated but potentially harmful to the patient. This change must occur in order to provide better and more effective care to all.

Teaching with Metaphor

10:45 a.m. – 12:00 p.m.   |   LBC 211 A & B

Presenters:
All students in Earlham Seminar: Magical Realist Literature

Moderator:
Laura Leavitt

Keywords:
writing, Earlham Seminar, metaphor, genre, presentation

Members of the Magical Realist Literature Earlham Seminar have learned a lot about how to use metaphors effectively to entertain, encourage, educate, and help others. These short presentations will give valuable tips and pointers for different kinds of writing you may encounter in college. Each group will use their knowledge of metaphor to make a kind of writing logical, amusing, and easy to implement. There will be time at the end of the session for questions about how magical realist literature teaches us about metaphor, as well as questions about each genre of writing described.
Interdisciplinary Panel
10:45 a.m. – 12:00 p.m.   |   LBC 212

Moderator:
Jay Roberts

Replication of Acute Stress Enhances Memory for Emotional Words, but Impairs Memory for Neutral Words

Presenters:
Ethan Perkins, Arrita Domi, Yunjoo Shin, Sungeun Park

Keywords:
Neuroscience, Psychology, Stress, Memory, Performance

Does inducing acute stress in participants affect their short-term retention of neutral and emotional words? Following the results of the study done by Jelicic et al. in 2004 titled “Acute stress enhances memory for emotional words, but impairs memory for neutral words,” we hypothesize that acute stress increases recall for emotional words while decreasing recall for neutral words.

Personality and Behavior

Presenters:
Ashanti McGinnis, Lydia Evans, Aishat Sadiq

Keywords:
Psychopathy, Contagious Yawning, Neuroscience, Psychology, Personality

We are presenting the results of a study performed for Behavioral Neuroscience course. The purpose of this study is to evaluate the link between psychopathic personality traits and contagious yawning. Because lack of empathy is a key trait of psychopathy, this study aims to assess if individuals who show higher levels of psychopathic traits will be less prone to contagious yawning. For this study, participants completed the PPI survey and then were shown videos and their numbers of yawns were recorded.

Beginner’s Mind in Western Contemporary Art: Cultural hybridity and appropriation

Presenter:
Ricardo Sleet

Keywords:
Art history, Buddhism, Cultural Appropriation, Contemporary Art

Western contemporary artists have popularly sampled Buddhist iconography, philosophical theory, and meditative practices in their works since the rise of Dadaism and the advent of contemporary art itself. This niche within the contemporary art world has emerged from an infatuation with the more esoteric varieties of Buddhist teaching, the allure of mindfulness and expansive consciousness offered by Zen Buddhist doctrines. Western fascination with the Buddhist world view and its mystical characteristics have manifested a generative space for lay people and outsiders of Buddhist culture to explore aspects of the dharma through art, but the othering of these Buddhist influences leaves questions about the power dynamics of cultural hybridity and appropriation at play in western art communities heavily influenced by Buddhism.
Adaptation of Hip Hop and Rhyme Scheme into Japanese: A Linguistic and Cultural Investigation

Presenters:
Devon Olson, Jennifer Waldman

Keywords:
Japanese, linguistics, phonology, psycholinguistics, language and culture

Our research looks at how written and spoken Japanese language has influenced the evolution and adaptation of hip hop in Japan. The history of hip hop and how it came to fit into a Japanese context will be discussed. In order to explore this process, we look at how the use of hip hop posed a challenge for Japanese rappers to adapt English rhyme schemes and rhythmic ideas into the mora based language. We will look at case studies of rappers that incorporate English into Japanese hip hop songs and another who incorporates English, Spanish, and caló (Chicano/a slang). Furthermore, we will discuss Japanese language politics and how it is viewed through different lenses, such as Nihonjinron (Japan based theories), multilingualism, and as an art form to liberate the Japanese language.

How does the growth of modern technology influence the Principles and Practices of Earlham College?
10:45 a.m. – 12:00 p.m. | LBC 315 A & B

Facilitators:
Safia Diarra, Hyeonji Kim, Quynh Nguyen, Juncheng Lu, Abigail Crabtree, Muskan Uprety, Lam Bui, Pyone Thant Win, Yining Tang, Aima Wang, Ryoji Fusegi

As the use of technology increases on Earlham’s campus, how does it affect the Principles and Practices of Earlham College? As discussion leaders, we will attempt to answer this question by considering the current effects of technology in societies around the world and relating those issues to what’s happening here.

Rising to the Top: Psychology, Home Economics & Religion at selected Southern HBCUs
10:45 a.m. – 12:00 p.m. | LBC 316

Presenters:
Jerilyn Gillenwater, Kristen Laws, Louisa Perry-Farr, Juliet Souders, Kathy Milar

Moderator:
Kathy Milar

Keywords:
psychology HBCUs gender

This panel examines history, faculty and curriculum at two historically black colleges for women: Bennett in Greensboro, NC and Spelman in Atlanta, GA; a men’s college, Morehouse, in Atlanta and Atlanta University which was coeducational. Issues of gender differences in educational curriculum and how those differences shaped identity and the place of individual in society are examined. At the women’s college the curriculum changed from an emphasis on missionary and domestic work to community leadership over time. Morehouse concerned itself with the production of religious, intelligent and leading men. Atlanta University, while open to both women and men, had sharp gender discrepancies raising the question of who the university viewed as true communal leaders.
Tuesday, April 17
Empty Bowls
West Alcove in Runyan Center
11:00 a.m. – 1:00 p.m.

The EC Food Pantry assists students that reside on campus in the summer and during the academic year. Advanced Ceramics students are contributing to the Earlham College Food Pantry by selling handmade bowls in the alcove outside of the bookstore. Cost is $10 per bowl (no meal) with a few special pieces that will be available by silent auction. All proceeds made during the fundraiser will be donated to the EC Food Pantry.

Artists include:
Kaydra Barbre
Tate Ensmenge
Lily Finell
Lindsey Gearin
Shawn Gibson
Padgett Gustavson
Lilly Hartman
Bethany Hartzell
Gaia Hendrix-Petry
Thomas Hill
Katie Holdeman
Johanna Monson-Geerts
Rachel Pastel
Adam Schwartz
Della Walters
Judy Wojcik
Tuesday, April 18
History of Rock Music Presentations
12:00 p.m. – 3:20 p.m.
CVPA 150
Moderator: Keith Cozart Steele

The Temptations vs. Booker T. & the M.G.’s
12:00 p.m. – 12:20 p.m.

Presenters:
Jordan Christian, Joel Dominguez

Keywords:
PowerPoint presentation

Jordan and Joel will be highlighting the similarities and differences between The Temptations and Booker T. & the M.G.’s and how these two bands competed against each other for spots on the top music charts. We will also discuss their respective record companies, Motown Records and Stax records and how these two companies competed against each other for top spot in the industry.

Scary Tunes to Creepy Books: Voltaire in 18 minutes or less
12:25 p.m. – 12:45 p.m.

Presenter:
Herschel Darko

Keywords:
Music, Video

This presentation will give the story of Aurelio Voltaire, a singer-songwriter known for his dark folk music, and his career which due to his many interests has lead him to direct movies, publish a comic book series and feature as an event in a popular MMORPG (Massively Multiplayer Online Role Playing Game). We will take a look at his works and listen to his music to understand what makes this Gothic vampire fun and unique rather than inflict terrible nightmares and horrors to anyone who sees his work.

Billy Joel
12:50 p.m. – 1:10 p.m.

Presenter:
Brandon Giordanelli

Keywords:
Classic-Rock, Billy Joel, music styling

In my presentation, I will engage with the audience about the history and life of Billy Joel. I will talk about the impact he had on my life along with how he has Influenced millions of people around the world. I will also show how his popularity and music style was a stepping stone for music that would preside him.
U2: Using Music to Change Lives
1:15 p.m. – 1:35 p.m.

Presenter:
Jemayla Nelsonwood

Keywords:
Music used in politics

I am planning on focusing on the band U2 and how they used their music to bring attention to political and social problems. I want to talk about what type of rock they are, how they were influenced and who has been influenced by them. Besides just looking at how the band encompasses the rock genre and produces good music, I want to look at how their lyrics and themes have been influenced. Many of the songs by U2 have roots in political and social movements that are relevant at the time. I want to look at how they were able to use music to bring more attention to issues happening in the world. I also will look at how the members individually and as a whole have made large amounts of change and raised funds for many different charities and organizations throughout their careers. I am interested in researching U2 because they have helped many charities and brought attention and support to many great causes. To present this project I plan to have some slides behind me with pictures that will accompany what I am talking about. Starting with what U2 does with rock and roll and what their music is, maybe playing some clips as an example. Then I will move on to the political and social work they have done and how this has influenced their music and how they have used their music to bring attention to these issues.

Rush and Their Impact on Rock n’ Roll
1:40 p.m. – 2:00 p.m.

Presenter:
John Sakaleros

Keywords:
Music, Rock, Rush, History

For my presentation, I will talk about the fathers of the progressive rock genre, Rush. My presentation will outline their history as a band and tell the story of their rising to fame from their humble beginnings. I will start by going over their musical influences when they first formed, and show the audience through examples how their musical style evolved over the course of their career. I will also talk about how they influenced other contemporary bands. At a time when music was highly formulated and the same song structure and instrumentation was being used, Rush revolutionized music by changing everything up with their musical stylings. The traditional song structure involving multiple verses and choruses was thrown out, and Rush was able to create songs that flow perfectly that involve a very nontraditional song structure. Multiple song examples will be used throughout the presentation to demonstrate this. I will conclude by telling the audience how much Rush’s music has impacted my life and inviting them to explore more for themselves and delve deep into Rush’s discography.
**Evolution of Boy Bands**  
2:05 p.m. – 2:25 p.m.

*Presenter:*  
Ian Bach

*Keywords:*  
The evolution of Boy Bands

I would like to inform people about the evolution of Boy Bands. I will start from the 1950s and continue to the 2000's. A lot of people do not know about this genre either.

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**Japanese Rock**  
2:30 p.m. – 2:50 p.m.

*Presenter:*  
Hieu Pham

*Keywords:*  
Rock, music, Japanese

In this presentation, I intend to introduce the class with Japanese Rock and why I have come to love it. After years of listening to American rock and British rock, I realized that I had grown tired and want to try something else. At that time, I was watching animes (derived from animation), which is a kind of Japanese cartoon. Its opening song was very catchy, so I tried to look up other songs by the same artist. Gradually, I started to discover other bands and loved Japanese music at some points. I introduced those to my bandmates, but they didn’t like it and didn’t want to sing it because they didn’t know Japanese.

Next, I will talk briefly about Japanese rock. It formed in the 1960s and incorporated a lot of elements from both American and British rock bands. Initially they sang exclusively in English and indistinguishable from the Western music. However, they later changed to sing in Japanese only or both English and Japanese. They also let some of the traditional folk music to influence, creating a distinctive sound.

Also during the presentation, I will show some songs that had a great impact on me during my high-school life and will talk about they have changed me.

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**Punk Rock: Green Day & Politics**  
2:55 p.m. – 3:15 p.m.

*Presenter:*  
Yousra Manar

*Keywords:*  
Music, Social Justice, Punk Rock, Interactive

Did you know that Green Day used Punk Rock as a way to express political issues? Green Day changed from a band that sings about personal and interpersonal problems, to a band that sings about political issues. We will start by defining Punk Rock and its influences. This will be followed by a general overview of who Green Day is, including snippets from their most relevant albums. The core of my presentation will focus on Green Day’s album “American Idiot” and its political lyrics that impacted the way people view politics and the media. We will also see how Green Day’s album encouraged rebellion. Although my presentation focuses mostly on Green Day, it is important to mention other Punk Rock artists who have a history of political rebellion. As a conclusion, we will discuss how political and social issues are now expressed through different musical genres such as Rap and RnB. Join me in this presentation to discover how music and the media played a role in social change and social justice!
Tuesday, April 17
Art Sale
CVPA Atrium
1:00 p.m. – 2:30 p.m.

The Earlham College Art Department will be hosting an Art Sale featuring the work of current students across multiple divisions. The participating mediums include metal work, photography, drawing/painting, ceramics, and fibers. This sale will allow you to meet each of the artists and engage with them about their work and processes, as well as be a chance to purchase original art works and art objects.
Tuesday, April 17
Creative Explorations
1:30 p.m. – 3:00 p.m.

Crucible Literary Magazine 2018 Release
1:30 p.m. – 2:30 p.m. | Carpenter 211

Presenters:
Lilly Hartman, Lilli Gonzalez-Soto, Maddie Wallace, Maddie Gullion, Sunset Combs, Ethan Pickett

Keywords:
Creative Writing, Visual Art, Publication

Come celebrate the publication of the 2018 edition of Earlham’s student run literary magazine, The Crucible. The Crucible features creative writing and visual art by Earlham students and is curated, edited, and designed by a team of editorial interns.

What Does Earlham Know?
1:30 p.m. – 1:45 p.m. | Carpenter 212

Presenters:
Jacob Breen, Istiak Khan

Keywords:
Fun, exciting

Earlham College, is it really a Globally Engaged and Socially Concerned college like its’ website states? Last semester we embarked on a quest to see what people at Earlham really knew. In the form of questionnaires, we tested you, the students and faculty at Earlham College. So come on down and see what we saw from our findings, all compiled and broken-down for your pleasure!

Iceland-The Land of the Giants
2:00 p.m. – 3:00 p.m. | Carpenter 212

Presenter:
Cynthia Grinspan

Keywords:
Talk, PowerPoint presentation, Question and answer time

I would like to share with you my experience in Iceland in the eyes of a foreigner when I first arrived until I became an Icelander nine years later. When the myths I heard about Iceland became reality and when the reality I had heard about Iceland was actually a myth. The discoveries that I made and the things that I learned. The things I adopted and the things I left out. A country whose doors have always been open yet only largely visited during the last few years. The uniqueness of the land of ice, water and fire. The uniqueness the Icelanders are making an effort to keep and that has been kept due to the isolation of this land far up near the Arctic Circle. Close yet it seems so far away.
**From Attic to Archive: Treasures at Earlham**
1:30 p.m. – 2:30 p.m.   |   College Archives in Lilly Library

*Presenters:*
Jenny Freed, Tom Hamm

*Keywords:*
History, Archives, Rare Books, Preservation

Curious about rare books? Interested in Earlham’s history? Ever wondered how Archivists preserve digital records? Join Tom Hamm and Jenny Freed for a presentation on Earlham’s Friends Collection and College Archives. Topics will include information on preservation of physical and digital records, the treasures in the College Archive, and some amazing stories. The College Archives can be found in the basement of Lilly Library, just take two rights at the bottom of the stairs.

**Hands-On Indoor Gardening**
1:30 p.m. – 3:00 p.m.   |   CST Porch (Rain Location: CST Atrium)

*Facilitators:*
Bobbi Cayard-Roberts, Mitchel Gallagher

*Keywords:*
Gardening, Hobbies, Tips

Bobbi Cayard-Roberts and Mitchel Gallagher will be sharing indoor gardening tips and tricks. During the presentation, together we will be building an indoor faerie garden for the Science Complex. It will be an interactive learning experience. We are also excited for general questions about indoor gardening.

**The Things that Separate Us Also Connect Us: Personal Storytelling and Podcasting**
1:30 p.m. – 3:00 p.m.   |   CST 103

*Presenters:*
Katie Sterzinger, Adrian Cox-Thurmond, Ally Latham, Michele Sepulveda, Erin Welsh, Lucas Gosnell, Phi Nguyen, Chima Ndukwu, Max Meier, Harrison Rice, Makenzie Bennett, Gaia Hendrix-Petry, Janessa Dodson, Emanuel Faria, Chancey Cothren

*Keywords:*
storytelling, podcasts, autobiography

Our stories in our voices. Come listen to personal stories told in podcast-style pieces created by students in the ES2: Presenting and Representing Ourselves. After learning and thinking about culture, identity, and storytelling, each student crafted an audio piece to tell their story. The stories are about families and traditions, belonging and fitting in, and overcoming challenges. They are touching, funny, thoughtful, and tough. They make meaning out of experience. The students will introduce their pieces, give context to the “why” of the podcast assignment, and describe the “hows” of the process.
Make and Take
1:30 p.m. – 3:00 p.m. | CVPA 109

Facilitators:
Katie Kameen, Mia Kaplan, Kinsey Emerson

Keywords:
creative, interactive, technology, handmade

Come check out what’s going on in Metals and 3D Fabrication, and make your own custom keychain! 3D Fabrication students in CVPA 109 will be running a metal stamping and embossing station where you can make your own handmade souvenir. We’ll also be showing off some of the digital work we do in the Metals Studio, so come see our 3D printer in action and choose a 3D printed object to take home with you. This will be a great opportunity to have fun, make something, and talk with other students about their experiences in the art program.

Gamelan Workshop
1:30 p.m. – 3:00 p.m. | CVPA 132

Facilitators:
Marc Benamou, Earlham Gamelan Ensemble

Keywords:
hands-on music workshop

Come learn to play a simple piece on our beautiful Javanese gamelan (a collection of mostly bronze percussion instruments from Indonesia). No previous musical knowledge is necessary, but it would be best if you are able to sit comfortably on the floor (if you need seating accommodations please contact Marc Benamou beforehand). For those who would just like to listen, workshop participants will perform their new piece at 2:30 p.m., followed by a brief recital by the Earlham Gamelan Ensemble.

Women’s Lacrosse Introductory Workshop
1:30 p.m. – 3:00 p.m. | Darrell Beane Stadium (in case of inclement weather, Trueblood Courts 2-4)

Presenters:
Molly MacDonald, Lindsey Grundfast, the Women’s Lacrosse Team

Keywords:
Women’s Lacrosse Workshop, an Introduction to the sport of women’s lacrosse

Our Women’s Lacrosse Team is extremely elated to join the Earlham campus this year, and would love to spread our excitement across campus with a lacrosse workshop!

Did you know men’s and women’s lacrosse play with different numbers of players on the field? Have you ever wondered why women’s lacrosse players have to drop our sticks during the game? Have you ever had the opportunity to even watch women’s lacrosse, or lacrosse in general?

If you’d like to learn the answers to these questions, or crave an opportunity to watch and participate in women’s lacrosse and learn our (crazy) rules, we’d love to have you attend! This is a great opportunity to jump into the sport and meet our friendly and fun team. So come grab a stick and learn the basic fundamentals of women’s lacrosse while enjoying the newest sport on campus and the great outdoors! We can’t promise sun and warm weather, but we can assure you you’ll want to come catch a game after experiencing our team and sport firsthand!

No experience, athletic ability, or equipment needed!
Let’s talk Trash: Know your waste
1:30 p.m. – 3:00 p.m.  |  The Heart

**Facilitators:**
Ernesto Cabrera, Rosie Jacobs, Smirthy Ganesan, Rebecca Moore

**Keywords:**
Sustainability, Waste Audit, Recycling, Landfill, Education

Do you know how much waste Earlham generates every day? Would you like to find out? Join the Student Sustainability Core in conducting a waste audit of a sample of the waste generated on-campus every day. All you have to do is to bring your enthusiasm and we provide the rest. Let’s get dirty!

These Wheels are Made for Biking: A Bike Share Info Session
1:30 p.m. – 3:00 p.m.  |  The Heart (Rain Location: Outdoor Education Center)

**Facilitators:**
Andy Clifford, Rebecca Moore, Smirthy Ganesan, Mai Hoang, Madeline Gullion

**Keywords:**
Alternate Transportation, Bike Share, Biking, Exercise, Environment, Sustainability

Come by to learn about the Bike Share on Earlham’s campus, and to sign up! There will be bikes to ride around the heart, and free sustainability gear! Outdoor Ed will also be there with used gear for sale!

West African Art and the Earlham Art Collection
1:30 p.m. – 2:30 p.m.  |  Richmond Room, LBC

**Presenters:**
Elena Johnson, Lyn Koehnline

**Keywords:**
West African Art, Earlham Art Collection

The Earlham College Art Collection consists of nearly 4,000 works of art and artifacts from a wide range of times and places. The collection has grown largely through gifts from alumni and faculty and much of the collection is poorly documented.

There are two parts of this presentation. Curator Lyn Koehnline will describe the history, range and current state of the Collection. Senior Elena Johnson will present her findings on the West African works currently on display on the first floor of LBC. She will focus on bracelets, pieces of currency, and items with cowrie shells. This presentation explores the relationship between typically aesthetic objects and typically economic ones, as well as the ways in which this material is presented in scholarship.

Following these presentations, participants will have the opportunity to go walk over to Lilly for a behind-the-scenes tour of art storage.
A Language Learning “Tasting Session”
1:30 p.m. – 3:00 p.m. | LBC 124

Presenters:
Candice Marshall, Safia Diara, students in Studies in Language Learning and Teaching

Keywords:
Language, Learning, Teaching, Interactive

The students from the Studies in Language Learning and Teaching course will present a variety of short, interactive language mini-lessons in a variety of languages (some of which may include Japanese, Chinese, French, German, Arabic, and/or Russian) in a station format. Visitors will be able to visit as few or as many stations as they like within the period to “taste” as the variety languages. Each table will feature a takeaway card with reminders about the sample of the language you have “tasted.”

Process Philosophy and Ecological Survival
1:30 p.m. – 2:30 p.m. | LBC 208

Presenter:
Lonnie Valentine

Keywords:
process, philosophy, ecology, subjectivity, relationality

Process philosophy and theology reject the “substance metaphysics” of the dominant Western tradition for a “relational metaphysics” developed most fully by Alfred North Whitehead. Quakers in their practice have embodied such a relational vision but have done little to reflect upon the metaphysics suggested by their incarnational experience of God, one another, and our planet. Such theological reflection can deepen our sense of how the earth incarnated in us and we in the earth. Such thinking can, literally, contribute to the world’s survival. In conversations with students shortly before his death in 1947, Whitehead said this:

“The conditions of our lives have been basically more altered in the past fifty years than they were in the previous to thousand – I might say three thousand. I think that we are on the threshold of an age of liberation, a better life for the masses, a new burst of liberated creative energy, a new form of society; or (humankind) may all but exterminate itself and desolate this planet.” (Dialogues of Alfred North Whitehead, 276).

Social Responsibility in Small Businesses: A Case Study on How Businesses Can Do Better
1:30 p.m. – 2:15 p.m. | LBC 211 A & B

Presenter:
Sophia Lombardo

Keywords:
Social Responsibility, Community, Economics, Environment

What is Social Responsibility? How can businesses contribute to their community? How can we look at the economic and environmental means of giving back to customers? As a Business student with a passion for helping others, I found myself wanting to research how small businesses in Richmond, Indiana, and Columbus, Ohio give back to their consumer base and make the world a better place. What I found boiled down to three factors of social responsibility: community involvement, economic growth, and environmental/sustainability action. By observing how small businesses approach these three factors, I found resources to incorporate social responsibility and how to involve all aspects of an organization to better a community. I will present my research and include videos, pictures, and a handout on how to gain a further understanding of Social Responsibility.
**Students for Sustainability: Educating Children on Environmental Activism**  
2:30 p.m. – 3:00 p.m. | LBC 211 A & B  

*Presenters:*  
Rebecca Moore, Maddie Gullion, Mai Hoang, Jada Wilbanks  

*Keywords:*  
Children, Sustainability, Environment, Activism  

How do we reach both the head and the heart of people in order to achieve a more sustainable future? How do we spark a passion for environmental sustainability and activism? Student Sustainability Corps’ Community Engagement Team has been conquering these challenges through children’s programs in the community. Come visit us to learn about how teaching children about Earth’s beauty and climate change has helped us learn new ways to create a sustainable future for Earlham, the Richmond community, and the world.

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**3D Printing: Architecture**  
1:30 p.m. – 1:45 p.m. | LBC 212  

*Presenter:*  
Yujeong Lee  

*Keywords:*  
3D printing, architecture, design  

This presentation aims to display the designing process using the software Rinocedos to 3D print a small model of an architecture.

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**Breathing more life into Libraries and Museums at Earlham**  
1:30 – 3:00 p.m. | Lilly Library Gallery  

*Facilitators:*  
Heather Lerner, Neal Baker  

*Keywords:*  
museum, library, collections, community, public  

Did you know our Quaker collections are the third most important in the western hemisphere? Did you know we hold the most complete collection of Indiana biodiversity in the world? Did you know that we also have valuable art, ethnographic and geologic collections at Earlham? Did you know that 11,000 people come to the Joseph Moore Museum each year, drawn by the collections we display and our interactive events featuring student and faculty projects?  

With careful study and new technologies, these types of collections and public interactions are being used around the world to solve some of society’s major problems. We would like to gauge your interest in an exciting venture to expand the use of our unique collections and exhibit space. Please join us for a workshop to begin designing a space that would foster collaborative, inclusive, multi-disciplinary work using collections and technology in a Quaker liberal arts tradition that unites the college with the larger community. We welcome all to participate in this workshop-style format for exploring community needs and interest.
Tour of the Old Observatory
2:30 p.m. – 3:00 p.m. | The Old Observatory by Carpenter Hall

Facilitator:
Seth Hopper

Keywords:
Observatory Tour

Come visit Earlham’s original observatory, the oldest building on campus on a tour led by Earlham’s astronomy professor Seth Hopper. Learn about its history and engage in a discussion concerning what its future should be.

Mindfulness Meditation Practice
2:00 p.m. – 3:00 p.m. | Stout Meetinghouse

Facilitators:
Kelly Burk, Geshe Tenzin Tselek

Keywords:
Mindfulness Meditation Practice

The Earlham community is invited to experience mindfulness meditation led by Geshe Tenzin Tselek, the Tibetan Buddhist monk who is in residence at the College this spring. This one-hour meditation is an opportunity to tend to your inner world by cultivating tranquility and insight. Prior experience with meditation is not required.

The Demands of a Commitment
2:15 p.m. – 3:00 p.m. | AWC 2225

Facilitators:
Lauren Horton, Volleyball Student Athletes

Keywords:
Engaging, Empowering, Testing your limits

Beep, beep, beep. Your alarm goes off, but you want to hit snooze. You don’t. You get out of bed and you start your day. Regardless of when you fell asleep, you wake up, fuel your body, and grind. Take a walk in our shoes...actually, take a jump, pass a ball, swing a kettle bell, then squat it, jump again...you get the picture. Experience what our commitment looks like, no – feels like! Earlham Volleyball has decided that success is in our future, and we will commit to the process and compete in all aspects. Our standard of excellence has gone beyond the match. The grind has taken us outside of the classroom. We have found that our only limit is ourselves. Listen to our success stories. Experience our grind. Come see what we are about.

Quaker Golf Studio - Next Level Technology
1:30 p.m. – 3:00 p.m. | Quaker Golf Studio in Trueblood Field House in AWC

Facilitators:
Matt Gehring, Graham Sherard

Keywords:
Athletics, Golf, Sports Performance, Technology

The Quaker Golf Studio is a unique and exciting addition to the Earlham College Golf Program. This facility is a converted racquetball room that allows our varsity golf teams to work on their golf game year round. The room is equipped with some of the most up-to-date technology on the market. This demonstration will show exactly what our student athletes have the ability to do during the season and in the off season as well.
Tuesday, April 17
Faculty Scholarship and Achievements Reception
CVPA Atrium
3:15 p.m. – 4:15 p.m.

Tuesday, April 17
Bonner Scholars Celebration of Service Dinner
Comstock Room
6:00 p.m. – 8:00 p.m.
RSVP required to attend

The Bonner Scholars Celebration of Service dinner honors the lasting legacy of all Bonners, especially the graduating seniors, and service award recipients at Earlham College. Earlham College Bonners dedicate themselves not only to service, but to making connections between their community experiences and their academic pursuits. Spending over 1,600 hours engaging in Richmond and other communities during their time at Earlham, Bonner Scholars develop expertise, leadership skills, and a desire to continue impacting their communities after graduation. Invitation only.

Celebrated Attendees include:

Grace Makhoul (Graduating Senior, Karen Keller LaFollette Award)
Lily Weist (Graduating Senior, David Koch ’66 Award in Public Service)
Charles Davis (Graduating Senior, Bonner Scholar)
Sage Halewolfe (Graduating Senior, Bonner Scholar)
Asa Hendrix-Petry (Graduating Senior, Bonner Scholar)
Chiah Huff (Graduating Senior, Bonner Scholar)
Amanda Johnson (Graduating Senior, Bonner Scholar)
Howard Ly (Graduating Senior, Bonner Scholar)
Duncan McNelis (Graduating Senior, Bonner Scholar)
Juliet Miller (Graduating Senior, Bonner Scholar)
Andrew Pettyjohn (Graduating Senior, Bonner Scholar)
Joely Rios (Graduating Senior, Bonner Scholar)
Olivia Wallace (Graduating Senior, Bonner Scholar)
Kimberly Wells (Graduating Senior, Bonner Scholar)

City of Richmond, Parks & Recreation Department (Community Partner Agency of the Year)
Traci Lewis (City of Richmond, Parks & Recreation Department, Community Partner Person of the Year)
Andy Clifford (Earlham College Engaged Faculty Collaborator of the Year)
Supercharge Middlefork Campaign: An Environmental Capstone Project
7:00 p.m. – 8:00 p.m. | The CoLab

Presenters:
Eli Ramthun, Tommy Murphy, Malia Staab, Ziqi Wang, Leila Jakobson, Andy Landy

Keywords:
environmental, capstone, community engagement

This is the senior capstone project of the Environmental Studies & Sustainability seniors. We have been working together with the Richmond Parks and Recreation Department to define revitalization needs at Middlefork Reservoir. Middlefork Reservoir, which was once a space for community recreation, has fallen into disrepair over the last few years. We have been working to revitalize the reservoir by taking steps to repair facilities, improve community engagement, implement recreation activities such as canoeing and kayaking, and provide educational opportunities for Richmond to learn where their water comes from. Our first priority is to replace the old playground, Super Park, with a new, safe, and educational playground - getting families back into the area, getting them active outdoors, and teaching children about the water cycle. During this past semester, we’ve presented to organizations such as Kiwanis, Richmond First Bank, and even Mayor Snow. This is an ongoing project in revitalization and fundraising, and we had a culminating experience on April 15th - a celebration of the opening of the season at Middlefork. We will describe the evolution of our project and what we learned along the way.

New Approaches to Historical Memory
7:00 p.m. – 8:30 p.m. | Richmond Room, LBC

Presenters:
Karen Breece, Rowan Hellwich, Anh Nguyen

Moderator:
Elana Passman

Keywords:
history, memory, gender, postcolonial

This panel, composed of students from HIST 440: Historical Memory, tackles new approaches to the study of historical memory by using the lenses of gender or post colonialism. Karen Breece will examine historical memory of the eugenics movement in Indiana. Rowan Hellwich will present on the historical memory of Gertrude Bell. Anh Nguyen will address Vietnamese intellectuals’ use of history and memory in their pursuit of Vietnamese freedom.
Justice Work over Spring Break: Engaging with American Friends Service Committee on Palestine and Israel campaigns
7:00 p.m. – 8:00 p.m. | LBC 201

Presenters:
Megan Bennett, Ahmed Murwan, Ani Freeborn, Asa Kramer-Dickie, Edita Danielyan, Kudzai Mushonga-Hande, Lobsang Palmo, Moataz Noureddine, Yazid Barhoush

We attended the Alternative Spring Break Trip with the American Friends Service Committee (AFSC) in Chicago and Indianapolis. Our focus was on AFSC’s campaigns regarding the conflict between Palestine and Israel. Our presentation will include our experiences and ways you can get involved with AFSC. We will be discussing what we learned which includes “Palestine 101,” “No Way to Treat a Child,” and “Gaza Unlocked.” We will also speak about a rally we attended at a sanctuary church and our social media projects.

Trade Negotiation Simulation: “What’s mine is mine, what’s yours...is also mine?”
7:00 p.m. – 8:30 p.m. | LBC 211 A & B

Facilitators:
Jennifer Seely, Angelica Carpio, Agathe Chapelle, Sandra Kluivers, Nick Sands, Stella Thunderwood

Keywords:
trade, international relations, real-world simulation

In hopes of sharing essential information about the intersection of politics and economics at a time when concerns about trade wars dominate the news, we offer an audience-participation simulation activity run by students from POLS 378 International Political Economy. We will present participants with researched background information and a real-world scenario to help them play a role in a mock international trade negotiation. Participants who are able to overcome conflicting interests and “break out” of a trade impasse will not only understand current events better, they may earn a prize.

Earlham Equestrian Exposition
7:00 p.m. – 9:00 p.m. | Earlham Equestrian Center

Facilitators:
Earlham Equestrian Program Co-op Members

Keywords:
horses

Come to the beautiful Earlham Equestrian Facilities to learn about horses and riding. Take a free horseback ride on one of our lovable, friendly horses. Learn about horse colors, horse breeds, and different riding styles. We will demonstrate how to care for horses and discuss horse behaviors.
**Observation night with COSMOS**
9:00 p.m. – 11:00 p.m.  |  CST 103

*Facilitators:*
Seth Hopper, Geneva Bedell, Perla Citlalli Cervantes

*Keywords:*
observation night back campus

Earlham’s student observing club, COSMOS will lead an observation session at the back campus observatory. The session will start with a short astronomy lecture in CST 103 at 9 pm on April 17. Then, we will walk together to the observatory to view the beautiful spring skies. Weather permitting, we will see a lovely waxing crescent Moon along with some spectacular stars and nebulae. In case of clouds, there will be a planetarium show in the Joseph Moore Museum.

**24-hour Theater Project: The Performance**
10:00 p.m.  |  McDaniel Studio Theatre

*Facilitators:*
Kharis Murphy, Lan Phan, Fawzia Istrabadi, Caitlin Cafiero

*Keywords:*
theater, fun, creative, zany

Come join Earlham’s student-run theatre company, ETC, as we host the annual 24-hour Theater Project! If you are interested in writing, directing, acting, doing tech, or just want to see what it’s all about but don’t normally have time to commit to a full semester of theater, this is the place for you. We will be starting on Monday night with assigning prompts, putting together teams, and creating a schedule for Tuesday when we will rehearse, add tech, and perform the pieces we’ve created. Whether you get involved in the process or just come out to see the show, it’s a lot of fun every year- we’ve even had people Skype in to participate!
Wednesday, April 18
Mini-Morning Session
9:00 a.m. – 9:45 a.m.

**Cemetery Walk**
9:00 a.m. – 9:45 a.m. | Earlham Cemetery

*Facilitator:*
Tom Hamm

Start your morning with an informative tour of the Earlham Cemetery led by historian Tom Hamm. Meet in the Carpenter Parking Lot by 8:55 a.m.

**Drum Circle**
9:00 a.m. – 9:45 a.m. | Bailey Concourse in AWC

*Facilitator:*
Keith Cozart Steele

Get your mind and body moving with a little rhythm, community and interaction. Instruments are provided and the event is open to all.
Wednesday, April 18  
Poster Session  
Trueblood Courts in AWC  
10:00 a.m. – 12:00 p.m.

*Posters listed by placement in display area.*  
*Please reference the Poster Session Layout diagram on page 50.*  
*Poster abstracts can be found at earlham.edu/epic-expo.*

1-4.  **2018 August EPIC Terms: Peace Corps Prep and Medical Interpretation**  
*Presenters:*  
Jennifer Seely, Aletha Stahl, Peter Blair

5-15.  **CS 488: Senior Capstone**

5.  **Greenhouse environment analyzed using Bayesian Network**  
*Presenter:*  
Shihao Chen  
*Keywords:*  
Greenhouse, machine learning

6.  **Molecular Docking and Virtualization**  
*Presenter:*  
Maxwell Meier  
*Keywords:*  
Virtualization, Molecular Docking, Ease of use

7.  **Human Activity Recognition Through Smartphone Data**  
*Presenter:*  
Niraj Parajuli  
*Keywords:*  
Machine Learning, Human Activity Recognition, Accelerometer, Fitness

8.  **ZUC random number generator**  
*Presenter:*  
Zeyang Gao  
*Keywords:*  
Random numbers, comparison study, computer science

9.  **Course Recommendation System (using machine learning)**  
*Presenter:*  
Adhish Adhikari  
*Keywords:*  
Computer Science, Machine Learning, Data Mining, Recommender Systems
10. City Data Visualization

Presenter:
Honglie Hu

Keywords:
Data Visualization, City

11. Fault Tolerance of IoT Hubs with a Blockchain Algorithm

Presenter:
Victor Zuniga

Keywords:
Blockchain, Healthcare, Fault Tolerance

12. Using Machine Learning to Predict Soccer Match Results with Scikit-learn

Presenters:
Minh Vo

Keywords:
Computer Science, Machine Learning, Soccer, Prediction, Scikit-learn

13. Smart Waste Monitoring System

Presenter:
Vitalii Stadnyk

Keywords:
IOT, Monitoring, Arduino, Waste

14. Bringing Innovative Load Balancing to NGINX

Presenter:
Adam Schwartz

Keywords:
Computer Science, Load Balancing, NGINX, The Power of Two Choices

15. Post-Train Data Addition to Decision Trees

Presenter:
Jeremy Swerdlow

Keywords:
artificial intelligence, machine learning, decision trees, performance improvement

16-30. Social Psychology Replication Projects

Presenters:
Students of PSYC 210: Social Psychology

Keywords:
psychology, research, replication

16. Piquing interest in a survey to increase participation

Presenters:
Alex Abelkis, Eliana Bookbinder, Noah Kelner, Susannah Rossier
17. Reminders of freedom to participate and research participation

*Presenters:*
Cat Canino, Starla Cosgrove, Ibbi Iftikhar, Mubtasim Talha

18. Sex composition of pairs and body orientation

*Presenters:*
Haley Arbitelle, McGee Catlett, Evan Hill, Adam Johnson

19. Reactions to norm violations

*Presenters:*
Jeremy Douyere, Max Feller, Drew FitzGibbon, Ryoji Fusegi

20. Compensating for invasion of personal space

*Presenters:*
Nadia Kousounadis, Avery Salerno, Brittany Timmerman, Dana Yao

21. Staring at others to influence behavior

*Presenters:*
Kierra Mikaylin Dennis, James Grace, Yana Miller, Erin Welsh

22. Invasions of personal space

*Presenters:*
Jennifer Douyere, Raven McCree, Domanick Michael, Samantha Szyndrowski

23. Gender and door-holding behavior

*Presenters:*
Shabnam Fayyaz, Dae Yong Kim, Zhujun Li, Sungeun Park

24. Clothing’s impact on cooperation

*Presenters:*
Laura Johnson, Jemayla Nelsonwood, Kevin Whited-Ford, Meg Wyatt

25. Courteous behaviors

*Presenters:*
Ella Ballin, Natalija Ljutic, Denny Mataia

26. Group size and social boundaries

*Presenters:*
Jovan Cruz, Dakota Fields, Kim Wells, Kassidy West

27. Pairs responding to an invader

*Presenters:*
Courtney Bassett, Brooke House, Rosie Jacobs
28. **Helping behavior and temperature**  
*Presenters:*  
Kito Espino, Nathan Mynatt, Bailey Stewart

29. **Salting food and attributions**  
*Presenters:*  
Margot Bailey, Ari Schrier, Christian Sharits

30. **Elevator behaviors**  
*Presenters:*  
Hanna Craig, Hannah Kim, Elise Thompson

31-35. **Politics & IS Seniors**  
*Presenters:*  
Ahmed Khanani, Alejandra Traslosberos Reyes, Jacob Daniel Breen, Sandra Elizabeth Kluivers, Sonia C. Norton, Treston Oneal Owens  
*Keywords:*  
grants, theses, and other fun things

36. **Environmental Leadership Program: A Year in Review**  
*Presenters:*  
Rebecca Moore, Ernesto Cabrera  
*Keywords:*  
Sustainability, Environmental Leadership Program

37-46. **Long-term environmental monitoring on Earlham’s campus**  
*Keywords:*  
environment, monitoring, Earlham, sustainability, science

37. **Earlham’s contribution to carbon dioxide emissions**  
*Presenters:*  
Situ Thapa, Becca Moore, Garett Schuler, Leo Martin

38. **Temperature’s effects on Dandelion population size**  
*Presenters:*  
Laura Johnson, Jemma Nelsonwood, Emma Guenthner, Lexi Sharp

39. **Getting to the root of the problem: monitoring soil nutrients at Earlham College**  
*Presenters:*  
Manuel Rodriguez, Levan Apkhaidze, Carson Smith-Saunders

40. **Miller Farm soil rehab: long term research on soil quality**  
*Presenters:*  
Garrett Byrd, Kobi Eng, Josue Morales
41. Hey bud, how’s it growin’? Effects of climate change on the phenology of flowering trees
   **Presenters:**
   Tate Ensmenger, Canela Gonzalez, Claire Canady, Ella Ballin

42. Noise vs. nature: using soundscape ecology to monitor environmental shifts in Earlham College’s landscape
   **Presenters:**
   Louisa Perry-Farr, Bailey Thompson, Madeline Chomentowski

43. Earlham back campus sedge meadow wildlife
   **Presenters:**
   Matthew Truex, Alexis Warren, Mary Pearl Ivy

44. Long term monitoring project: changes in species composition of woody plants in relation to back campus’ environmentally destructed areas
   **Presenters:**
   Riley Green, Chloe Lamenzo, Jacob Honn, Libby Fox

45. Amur Honeysuckle (*Lonicera maackii*): the back campus invaders
   **Presenters:**
   Marcella Lanzillotti, Natalija Ljutic, Christian Sharits

46. How many Quakers does it take to turn off a light bulb? Discrete intervention strategies towards college house electricity consumption reduction
   **Presenters:**
   Alyssa Guritz, Morgan Mack, Eli Ramthun

47-48. **MUSE 317**

47. Elephants Never Forget
   **Presenter:**
   Molly Rannebarger
   **Keywords:**
   Elephants, museum studies, exhibit design

48. A Soldier for my Country
   **Presenter:**
   Fiona Kelly
   **Keywords:**
   Women’s history, Russia, Military history
49. **Re-Introducing the Carnot Cycle - Simplifying the Math**

*Presenter:*
John Howell

*Keywords:*
Thermodynamics, Carnot, Thermal Pollution

50. **Natural Language Processing - Democratizing SQL by building a NLIDBS**

*Presenter:*
Jon Abdulloev

*Keywords:*
Computer Science, Artificial Intelligence, Natural Language Processing

51-56. **MGMT 306 Ennovation Lab - Spring 2018 Entrepreneurial Ideas**

*Keywords:*

51. **Project NADA**

*Presenters:*
Aleksa Topalovic, Abdullojon Abdulloev, Lam Nguyen, Nicola Manni, Phuc Tran, Tornike Phanjavidze, Aakarsh Sinha, Vojislav Tatarevic, Xuechen Zhang

52. **Project Mashinani Farmers Initiative**

*Presenter:*
Daniel Kibet

53. **Project Earlham International Hut**

*Presenters:*
Daniel Kibet, Kaien Zeng, Valentino Mbaya, Xuechen Zhang

54. **Project Repurposing the Tivoli Theater Building**

*Presenter:*
Kaien Zeng

55. **Project Urban Garden**

*Presenters:*
Jairo Mendez, Nicola Manni, Valentino Mbaya

56. **Project Dabba**

*Presenters:*
Jairo Mendez, Valentino Mbaya
*Presenters:* Madeline Gullion, Rosie Jacobs, Kobi Eng  
*Keywords:* Recycling, Sustainability, Compost, Landfill

58. **Energy-Efficient Load Balancing on Cluster Systems**  
*Presenters:* Eli Ramthun, Niraj Parajuli, Phuc Tran, Byron Roosa  
*Keywords:* Energy-efficiency, monitoring, HPC (high performance computing), sustainability

59. **White House Down: Cryptid Edition**  
*Presenters:* Meg Wyatt, Lucy McAfee, Dana Michelle Moore, Sarah Stewart  
*Keywords:* cryptids, security, pixies, lizard man, white house

60-71. **Bonner Scholars Senior Presentation of Learning**  
*Presenters:* Minhwa Choi, Charles Davis, Asa Hendrix-Petry, Chiah Huff, Amanda Johnson, Howard Ly, Duncan McNelis, Juliet Miller, Andrew Pettyjohn, Joely Rios, Olivia Wallace, Kimberly Wells  
*Keywords:* Bonner Scholars, community engagement, service

72. **Midwestern Plant Extracts Impact Biomarkers of Aging in Caenorhabditis elegans**  
*Presenters:* Minhwa Choi, Lobsang Palmo, Irving Lopez, Raven McCree  
*Keywords:* Caenorhabditis elegans, aging, transcription factors, stress response

73-75. **REL 305**  
73. **Contextualizing Healing: Tibetan, Navajo, and Korean Health Belief Systems**  
*Presenters:* Minhwa Choi, Lobsang Palmo, Lydia Evans  
*Keywords:* Healing, Health Belief Systems, Spirituality
74. **Structural Violence Against Women and Minorities: Health Care, Rape Culture, and Forced Prostitution**

*Presenters:*
Lillian Cosgrove, Sitashma Thapa, Jasmine Jacklyn Lebron

*Keywords:*
structural violence, sexual violence, women, minorities, health care

75. **Herbal Healing in Multiple Sociological Contexts**

*Presenters:*
Celia Carr, Marena Sein, Rebecca Fischer

*Keywords:*
herbal healing, medical anthropology, plants

76. **Eurydice Theoretical Sound Design**

*Presenter:*
Caitlin Cafiero

*Keywords:*
Design, Theatre, Playlists, Audio

77-79. **Field Botany**

77. **Differences in Community Structure at Edge and Interior of Deciduous Riparian Forests in Wayne County, IN**

*Presenters:*
Izzi Wilhelm, McGee Catlett, Rachel Riggs, Celia Carr

*Keywords:*
Botany, Floodplain Forests, Community Ecology, Disturbance

78. **Effect of forest edges and host tree species on vine loads of Vitis spp., Rhus radicans, and Parthenocissus quinquefolia**

*Presenters:*
Annie McClung, Brady Bubb, Alexandra Bailey, Lillian Lowenfield-Jayne

*Keywords:*
Plants, lianas, edge effect

79. **Differences in growth architecture of Acer saccharum between forest edge and interior habitats**

*Presenters:*
Eliana Bookbinder, Nick Maloney, Sebastian Slavinskas

*Keywords:*
biology, botany, trees, tree growth, canopy, Acer saccharum, Sugar Maple, ecology, shade tolerance
80. **Keeping Bored Math Learners Entertained**  
*Presenter:*  
Elijah Wilson-Thomas  
*Keywords:*  
Math Education

81-83. **Intro to Nutrition**

81. **Intermittent fasting**  
*Presenter:*  
Nguyen-Anh Nguyen  
*Keywords:*  
Intermittent fasting; weight loss; long-term effect; diseases intervention.

82. **Non-Celiac Gluten Sensitivity: Is It Real?**  
*Presenters:*  
Zoe Wallis, Courtney Scerbak  
*Keywords:*  
Gluten Sensitivity, Celiacs, Nutrition, Absorption

83. **Can plant-based diets reverse disease?**  
*Presenter:*  
Juliet Souders  
*Keywords:*  
Nutrition, Diet, Plant-based, Infographic

84-87. **ESEM II: Science in the Modern Age**  
*Keywords:*  
Slime Molds

84. **A Single-cell Organism in a Multi-cell World: Slime Mold’s Diet Preferences and Growth in Varying Temperatures**  
*Presenters:*  
Natalija Ljutic, Esme Mendiola, Yazid Barhoush, Sam Hart, Dominic Saidu

85. **A Route Best Traveled: A Tale of Slime Mold**  
*Presenters:*  
Israel Ramos, Shae Stanley, Drew FitzGibbon, Opy Akhter, Sam Russo

86. **The Influence of Elevation and Distance on Foraging Behavior in Physarum polycephalum**  
*Presenters:*  
Chloe May Lamenzo, Fiona Kelly, Rebecca Fischer
87. Violin or Tuba? The Impact of Pure Tone Frequencies on Slime Mold Growth

Presenters:
Joel Nti-Kyeremeh, Sean Ahn, Jared Ammon, Maeve McNamara

88. Meditation and Ice Cream

Presenters:
Yunjoo Shin, Naomi Ongjanco, Mubtasim Talha, Kayla Trevino

Keywords:
Stress, Meditation, Neuroscience

89. Social Exclusion Influences Emotional but not Sensory Aspects of Pain

Presenters:
Maren Schroeder, Ramiro Flores, Yunjoo Shin

Keywords:
Peer experiences, pain sensitivity

90. Improved Sampling in Molecular Dynamic Studies of Z[WC]-DNA and the B to Z-DNA Transition

Presenters:
Sirajus Salekin, Muhammad Mujataba, Sunil Pun, Ahmed Imamovic

Keywords:
DNA, Molecular Dynamics, Simulations, BioPhysics, Computation

91. Molecular Dynamic Studies of Z[WC]-DNA and the B to Z-DNA Transition

Presenters:
Ahmed Imamovic, Muhammad Mujtaba, Sirajus Salekin

Keywords:
Science, Biology, Physics, Biophysics

92. Person-focused praise (“hard-worker”) does not influence post-failure outcomes

Presenters:
Annalee Wilson, Seung Hyo Ki, Lara Khalifeh, Ethan Perkins, Rodrigo Vieira, Daisy Rangel, Jada Wilbanks, Rachael Reavis

Keywords:
praise, mindset, failure, motivation

93. Incarceration and Divorce - The impact of absentee fathers on child development

Presenter:
Daisy Rangel

Keywords:
Parental Incarceration, Divorce, Child Development
94. **Independent Biomedical Engineering Project**  
*Presenter:*  
Megan Bennett  
*Keywords:*  
Biomedical Engineering, McGill University, Independent Project

95. **Outdoor Ed Staff Manual Revision**  
*Presenter:*  
Malia Staab  
*Keywords:*  
Manual revision, Outdoor Education, Internship

96. **AFM Imaging of RNA and Gold Nanoparticles**  
*Presenter:*  
Isabela Bicalho  
*Keywords:*  
AFM, gold nanoparticles, RNA

97. **Assembling and Characterization of Dye-sensitized Solar Cells**  
*Presenters:*  
Yejin Ki, Linh My To Toan  
*Keywords:*  
Dye-sensitized solar cells, Titanium dioxide, organic dye, solar testing, Fill Factor(FF), renewable energy, clean energy

98. **A Comparison of Phytochemicals Present in Earlham Medicinal Plant Extracts**  
*Presenters:*  
Linh My To Toan, Courtney Scerbak  
*Keywords:*  
Chemistry, Medicinal plant, Quantificational analysis

99. **Leadership Education and Development**  
*Presenters:*  
Lindsey Grundfast, Molly MacDonald, Alexis Warren  
*Keywords:*  
Leadership

100. **Proposed Main Season Change for Women’s Golf and Its Impact**  
*Presenters:*  
Patrick Wright, Hannah Toresdahl  
*Keywords:*  
Title IX, Equity, Sports
101. National Girls and Women in Sport Day

Presenters:
Allison Franklin, Kathryn Hulleman, Denisha Mataia, Abbey Smith

Keywords:
community service, experience, athletics

102. Student-Athlete Advisory Committee

Presenters:
Maite Turlings, Emma Lady, Sofia Salvatore, De'Andre Davis, Elijah Bilal, Matt Truex

Keywords:
SAAC, Opportunities, NCAA convention, Community, Events

103. The Rise of Multi-Purpose Ride-Hailing Apps in South East Asia

Presenter:
Calvin Pratama

Keywords:
Applications, Technology, Marketing, Mass Transportation, E-Commerce

104. Animal Care Alliance Externship

Presenter:
Kelsi Miller

Keywords:
Presentation, Anthrozoology IP, Health Externship Program

105. Growth of human cancer cell lines in two different conditions

Presenters:
Emi Smith, Shahed Sbeta

Keywords:
Human Cell Culture, Cancer Cells

106-107. Outdoor Trip Leadership - Learning Outcomes

Presenters:
sample of students enrolled in EDUC/AWPE: Outdoor Trip Leadership

Keywords:
outdoor experiential education student leadership

108. Correlated motions in the DHFR-NADPH complex

Presenters:
Moataz Noureddine, Annika Hirmke, Malvika Dua

Keywords:
Biology, Physics, Computation
109. **Mapping Lead (Pb) Poisoning Risk in Richmond, IN**

*Presenters:*
Eliza Balch, Yuvraj Bisht

*Keywords:*
Local study, natural resources

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110-115. **ESEM II: Social Media, Cyber-Brigades, and More: Aiding the Polarization of Society**

110. **Troll Farms – “The Virtual Eye of Big Brother”**

*Presenters:*
Davit Kvartskhava, Brandon Giordanelli

*Keywords:*
Troll Farms Russia Election Brainwashing

111. **Social Media in Sports**

*Presenters:*
Tony Boutwell, Sam Thomas Sprockett, Luke Ryan Brake, Austin Baker

*Keywords:*
Sports, Social Media, and Informative

112. **Athletes’ Presence in Social Media: How it Affects Society**

*Presenters:*
Acacia Tenette, Jason Slain

*Keywords:*
Athletes, polarization, social media

113. **Social Media: My Life Line?**

*Presenter:*
Yujeong Lee

*Keywords:*
Social media, migration, communication, globalization

114. **Social Media Usage in Comparison with Academic Performance**

*Presenters:*
William Becker, Abigail Armstrong, Julia Park, Ashley Awbrey

*Keywords:*
Social Media, Academics, Correlation

115. **Internet Oniomania**

*Presenters:*
Trang Nguyen, Tracy Okwaisie

*Keywords:*
Informative, Interesting and Relatable
116. **Non-destructive XRD analysis of Museum Pottery Sherds**  
*Presenter:*  
Minda Dettman  
*Keywords:*  
Geoarchaeology, Museum Collection, Pottery Sherds, XRD Analysis

117-126. **Earth Materials Class**

117. **“Slate” Artifacts at the Joseph Moore Museum: Materials and Functions of Ground Stone Artifacts from Wayne County, Indiana**  
*Presenter:*  
Minda Dettman  
*Keywords:*  
ground stone artifacts, archaeology, museum’s collections, geology

118. **Geological and Ecological Impacts of Dams**  
*Presenter:*  
Madeline Chomentowski  
*Keywords:*  
Dams, Geology, Ecology

119. **Combining Petrology and Seismology to Track Magma**  
*Presenter:*  
Zachary Stevens  
*Keywords:*  
Petrology, seismology, magmas, tracking

120. **Pyritization of Fossils**  
*Presenter:*  
Ethan Thompson  
*Keywords:*  
Geology Fossilization Pyrite

121. **Oil Sands: Requiring Refinement**  
*Presenter:*  
Kobe Walker  
*Keywords:*  
oil sands, degradation, environmental impacts

122. **The Geological Reason for China’s Dominance in the Rare-Earth Element Market and its Potential Effects on Global Security**  
*Presenter:*  
Nathaniel Krautheim  
*Keywords:*  
China, Rare-Earth Elements, Global Security
123. **Hydraulic Fracturing of Marcellus Shale in New York and Pennsylvania**

*Presenter:*
Riley Green

*Keywords:*
Geology, Hydraulic Fracturing, Environment

124. **Marine Paleoclimate Through Halite Deposits**

*Presenter:*
Emma Patterson

*Keywords:*
Halite, Paleoclimate, Geology, Earth history

125. **The Mineral Diamond**

*Presenter:*
Sitashma Thapa

*Keywords:*
Elaborative, Awareness, Graphic

126. **Soil Carbon Sequestration: A Possible Solution to Climate Change and More?**

*Presenter:*
Padgett Gustavson

*Keywords:*
Climate Change, Carbon Sequestration, Soil, Agriculture
Join Earlham students in supporting the International Student Relief Fund for the 2018 All-Class Gift. In order to support students who are subject to the disadvantages accrued by political turmoil, war or global dynamics beyond their control, Earlham students have chosen the International Student Relief Fund as their 2018 All-Class Gift designation. Make your gift on Earlham Day by visiting the All-Class Gift table in the West Alcove of Runyan Center during lunch or at Bond Around The Heart on April 18.

Unite! Give! Inspire!

Wednesday, April 18
All-Class Gift
West Alcove in Runyan Center
11:00 a.m. – 1:00 p.m.

Wednesday, April 18
Faculty and Staff Buffet
Comstock Room
12:00 p.m. to 1:00 p.m.

Wednesday, April 18
Awards Convocation
Goddard Auditorium
1:00 p.m. – 2:30 p.m.

Wednesday, April 18
Bond Around The Heart and Earlham Day Festivities
The Heart and Comstock Field
Rain Location: Bailey Concourse and Trueblood Courts in AWC
2:30 p.m. – 4:30 p.m.
Wednesday, April 18
Baseball Game
Sadler Stadium
4:00 p.m.

Students, don’t forget to bring your stamped passport to the game! Prizes will be awarded based on the number of stickers you have collected. Students who collect seven or more will be entered into a grand prize drawing. Prizes include a luggage set, a $200 bookstore credit, and an iPad Mini!