

McMaster Symposium & Academic Colloquium

Defiance College
Thursday, April 28, 2022



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8:00am – 8:10am: Schomburg Auditorium

Opening Remarks

Dr. Agnes Caldwell, VP of Academic Affairs and Interim VP of Enrollment Management

Dr. Richanne C. Mankey, President

8:10am – 8:50am: Schomburg Auditorium

McMaster Local Learning Community: Independence Education Center

Fellow: Dr. Clarissa Barnes

Scholars: MacKenzie Arme, Jadina Mozzetti, Emily Vargo

The McMaster Local - IEC Learning Community will describe the community-based research projects that they have been implementing at the Independence Education Center. This presentation will evidence the valuable and exciting work that this local McMaster initiative has accomplished throughout the 2021-22 academic year.

9:00am – 9:50am: Schomburg Auditorium

McMaster Local Learning Community: PATH Center

Fellows: Dr. Sabrina Brown, Dr. Mollie Sorrell

Scholars: A.J. Ramirez, Hallie Webb, Clover Worrell

The McMaster Local - PATH Center Learning Community will describe the community-based research projects that they have been implementing at the PATH Center. This presentation will guide the audience through the process of establishing a new community partner, as well as the exciting work that this local McMaster initiative has accomplished throughout the 2021-22 academic year.

9:00am – 9:50am: Buchman Board Room

Traveling the World with a Different Road Map

Presented by: Sophie Moller, Autumn Saddler

Faculty Advisor: Dr. Clarissa Barnes

Traveling the World with a Different Road Map is a presentation that explores differences in how people with Autism Spectrum Disorder (ASD) experience the world. The presenters will define the concept of neurodiversity and explore ASD from both the medical and social perspectives. The role of the stigma and how it affects the mental health of neurodivergent individuals will also be discussed.

9:00am – 9:50am: Cultural Arts Center

Digital Evidence Collection Guide for Victim Advocates: Fight back against high-tech harassment

Presented by: Jessica Lynt, Parker Tilse, Devon Smith, Katie O'Malley (Legal Aid of Western Ohio), Harmony Downing (Center for Child and Family Advocacy)

Faculty Advisor: Professor Tim Wedge

21st century technology has given domestic abusers and stalkers new tools to use against their victims, and new challenges for the legal advocates who try to help them. DC Cyberforensics students developed, and tested low and no-cost methods, usable by laypeople, for extracting admissible evidence relating to illicit use of social media and personal messaging. The resulting manual has already been successfully used to provide evidence in court hearings that would otherwise have been absent. This panel discussion will discuss the challenges and benefits of this ongoing project, and addresses the potential for abuse.

9:00am – 9:50am: Hubbard Banquet Room

Disability Studies and The Golden Girls

Presented by: April Johnson

Faculty Advisor: Dr. Steven Engel

In my presentation, I discuss the negative effects of stereotyping disabled persons in the show The Golden Girls. I talk about how while the show is great in so many ways and is still seen as a popular tv show, people on tv interact and perceive disabled people does not help anyone. I use examples and clips from the show to discuss several ideas in disability studies about how non-disabled people treat disabled people.

The Representation of dis/ability in Fallout New Vegas

Presented by: MaKayah Long

Faculty Advisor: Dr. Steven Engel

Using post-humanist theory, this presentation will illuminate previously unnoticed representations of disability in the post-apocalyptic roleplaying video game Fallout: New Vegas.

10:00am – 10:50am: Schomburg Auditorium

McMaster Belize Learning Community

Fellow: Dr. Nady El-Zayaty

Associate Fellows: Dr. Steven Engel, Nicole Hoffman

Scholars: Logan Gray, Michael Joseph, Dylan King, Alivia Kruczkowski, Sophie Moller, Jaylen Redd, Autumn Saddler, Kelsie Shafer

The McMaster Belize Learning Community will present an overview of the various interdisciplinary community-based research projects that the team has been working on during the 2021-22 academic year. The group will give detailed descriptions of what they intend to accomplish during their travels to Belize in May.

10:00am – 10:50am: Buchman Board Room

Autism Spectrum Disorder and Feelings of Isolation: Moving Toward Inclusive Communities

Presented by: Taylor Greilich, Seth Mangus, Abbe Rank

Faculty Advisor: Dr. Clarissa Barnes

This presentation is focused on common comorbid diagnoses of autistic individuals. The effect of the comorbid diagnoses will be explored with an emphasis on isolation experienced by autistic individuals and their families. A discussion of community events and activities designed to create more inclusive opportunities will address where we are now and the work that still needs to be done.

10:00am – 10:50am: Cultural Arts Center

ACL Injuries in Young Female Athletes: Signs of Increased Risk and Injury Prevention Strategies

Presented by: Kaylee Dunkle, Paige Rohloff, Brianna Snider

Faculty Advisor: Dr. Tim Rickabaugh

Presentation of the data collected from the 2021 STEM Summer Research Program. This presentation will give an overview of the collected information on selected biomechanical and muscular strength indicators of ACL injury risk in young female athletes.

10:00am – 10:50am: Hubbard Banquet Room

How have Armored Vehicles Developed throughout the 20th Century?

Presented by: Robert Richmond

Faculty Advisors: Dr. Don Buerk, Dr. Kimberly Kuiper

The development of armored vehicles began in the early 20th century. It was trench warfare and the stalemate on the Western Front during World War I (1914-1918) that forced the British to develop an armored vehicle that could cross the trenches and break the stalemate. This presentation will guide you through the 20th century explaining the development of armored vehicles during The Great War (1914-1918), World War II (1938-1945), Post-World War II, and will talk about a few tank battles that were significant.

The Trial of the Chicago Seven: The Impact of Words and the Film

Presented by: Jadina Mozzetti

Faculty Advisors: Dr. Steve Bare, Dr. Don Buerk

This presentation examines the trial of the Chicago Seven, but also how exactly words can be misconstrued and misunderstood. Can a singular word really change the whole outlook and outcome of a single instance? The trial of the Chicago Seven was not just a simple trial, it was compiled of multiple factors that lead up to the event in question. There were multiple events that took place that not only shaped the convention, but also brought the trial to light.

11:00am - 11:50am: Schomburg Auditorium

McMaster Panama Learning Community

Fellows: Dr. Olivia Lozar, Dr. Tim Rickabaugh

Associate Fellows: Dr. Steve Bare, B.J. Pheasant

Scholars: Lauren Criblez, Briawna Francis, Grant Johnson, MaKayah Long, Samantha Haas Sayler, Brianna Snider

The McMaster Panama Learning Community will present a synopsis of community-based research projects that this dynamic group has been working on during the 2021-22 academic year. The team will provide an overview of what they hope to achieve when they travel to Panama in May.

11:00am - 11:50am: Buchman Board Room

Mental Health Profiles of Families of Autistic Individuals

Presented by: Kylie Brinkman, Logan Gray

Faculty Advisor: Dr. Clarissa Barnes

This presentation will provide the audience with information to better understand the mental health profiles of families of autistic individuals, especially parents and siblings. Having a family member with autism spectrum disorder is correlated with higher self-reported levels of stress and an increased risk of experiencing mental health illnesses like anxiety and depression. Our discussion will center around potential risk factors or barriers related to the stigmatization of ASD as well as potential protective factors that may decrease the risk of poor mental health outcomes for family members of autistic individuals.

11:00am - 11:50am: Women's Commission Art Gallery

Design with a Purpose

Presented by: Javin Brown, Daniel Budwah, Caitlyn Good, Noah Lindsey, Haley Manz, Clayton McCorkle, Jamel McIver, Anna Monte, Eric Moultrie Jr., Antawn Nathan, A.J. Ramirez, Kaleb Reiss, Tre'mon Starke, Rilee Worley

Faculty Advisor: Professor Beverly Fanning

Students from various majors present nonprofit designs for the Ohio River Foundation and DC Care Corner.

12:00pm- 1:30pm: Serrick Atrium

Lunch Break and Poster Presentations

1:30pm - 2:00pm: Schomburg Auditorium

Outstanding Inquiry Paper in FYE

Emma Bonnell, Xavia Borden, Zachary Canterbury, Cameron Kruyer

2:00pm - 2:50pm: Schomburg Auditorium

Outstanding Orator in World Issues

Sydney Adkins, Xavia Borden, Anika Craft, Noah Lindsey

3:00pm – 3:50pm: Schomburg Auditorium

Krieger Visiting Scholar in Religious Studies

Presented by: Dr. Kathryn Phillips

In late antiquity, several hagiographies of assigned-female saints who presented themselves as men were popular among Christian audiences. Within these hagiographies, the subjects changed their gender presentation and lived as men, often in monasteries intended for those assigned male. However, current historiography explains away these acts of gender variance from the historical record. Historians often view these saints' presentation as a means to negotiate patriarchy, such as safety while traveling or to attain authority reserved for men. There seems to be a compulsion among scholars to impose cisnormativity (the assumption that one's gender aligns with their sex assigned at birth) onto these figures through viewing their gender presentation as solely a pragmatic choice. This presentation analyzes these examples of gender variance in late antique Christianity through a transgender studies lens. This approach views these saints' genders as performative constructions within their cultural context. By using a transgender studies approach, this presentation disrupts the cisnormative view that causes the erasure of gender variance from the historical record.

4:00pm – 4:50pm: Schomburg Auditorium

Distinguished Faculty Presentation

Presented by: Professor David Stuckey

One of my first assignments for the Mathematics program at Defiance College was to designate a course in which the students would be involved in service-learning. Operations Research is a good source for such projects. We will examine some challenges that have been completed over the years and see how the Excel spreadsheet together with some of its special features has enabled us to aid a wide variety of community partners. This will include some of the difficulties faced along the way and the problem solving that went into overcoming them. As each class requires a new project, we can also field ideas for future students to tackle.

5:00pm – 6:00pm: Women's Commission Art Gallery

Helen McMaster Memorial Service

6:00pm – 7:00pm: Division Awards

Cultural Art Center: Art and History Awards

Buchman Board Room: Business, Education, and Social Work Awards

Hubbard Banquet Room: Natural Science, Applied Science, and Mathematic Awards

7:00pm– 8:00pm: Schomburg Auditorium

Honors Convocation

Poster Presentations

12:00pm – 1:30pm: Serrick Atrium

An Analysis of Disease–Causing Bacteria in Commercial Chicken Feeds

Presented by: Nat Shingler

Faculty Advisor: Dr. Sabrina Brown

Diatom– and Macroinvertebrate–Inferred Water Quality of the Maumee River Watershed in Defiance County, Ohio

Presented by: Nat Shingler, Katelyn Smith, Hallie Webb

Faculty Advisor: Dr. Sabrina Brown

Diatom–Inferred Seasonal Fluctuations in a Rural Pond in Defiance County, Ohio

Presented by: Katelyn Smith

Faculty Advisor: Dr. Sabrina Brown

Patton v. Rommel: A Comparison of Two of WWII's Greatest Generals

Presented by: Kayla Boettger

Faculty Advisor: Dr. Steve Bare

Reducing Nutrient Pollution in the Maumee River Watershed Using Native Plant Species on Floating Wetland Platforms

Presented by: Brett Moravec

Faculty Advisor: Dr. Sabrina Brown

Virtualizing the Lab

Presented by: David Andrew

Faculty Advisor: Professor Aaron Napierala

Establishing A Long–Term Assessment Study On Water Quality Of The Rivers Around Defiance, Ohio USA

Presented by: Lauren Criblez, Noelani Schmidt, Autumn Saddler

Faculty Advisor: Dr. Mollie Sorrell

About the McMaster School for Advancing Humanity

The McMaster School for Advancing Humanity was founded to serve as a focal point for teaching, service, scholarship, and action to improve the human condition worldwide. The mission of the McMaster School is:

- ◆ To educate students for responsible citizenship;
- ◆ To produce committed global citizens and leaders who understand the importance of individual liberties in improving the human condition worldwide; and
- ◆ To encourage graduates to take an active role in addressing these issues in whatever professions they may choose.

The School serves as a catalyst for innovative, interdisciplinary, community-based work by creating and supporting opportunities for teams of faculty, students, and staff to use their academic and professional skills to address a community need.

Goals of the McMaster School for Advancing Humanity

To critically examine the root causes of human suffering through academic and applied research of systemic factors (religious, political, social, educational and/or environmental) that impede human progress;

- ◆ To give students the knowledge and capacities to be active world citizens and to view themselves as members of the world community;
- ◆ To contribute actively – through sponsored scholarship and service to the improvement of the human condition worldwide;
- ◆ To exchange, create and disseminate knowledge about successful role models of active citizenship and public service; and
- ◆ To create at Defiance College one of the nation's premiere undergraduate educational programs with a focus on scholarship and service, with a special emphasis on

About Defiance College

Defiance College, founded in 1850, is a private liberal arts college affiliated with the United Church of Christ. Building on a strong foundation of more than a century of educating citizens for lives of leadership and service, Defiance College provides opportunities for its students to make a meaningful impact on society in the twenty-first century with an educational experience of engagement. Defiance's spirit of service through leadership sets us apart.

Defiance College's role as a national and innovative leader in service learning and engagement was recognized by the Corporation for National and Community Service which named Defiance among the top 20 schools in the nation for community service and engagement. This designation was made by naming Defiance College as a Presidential Award Finalist for the 2013 President's Higher Education Community Service Honor Roll.

The Princeton Review features Defiance College in Colleges with a Conscience: 81 Great Schools with Outstanding Community Involvement. Defiance is accredited by the North Central Association of Colleges and Schools, the National Council of Teacher Education, Commission on Collegiate Nursing Education, the Council on Social Work Education, the Commission on Accreditation of Athletic Training Education, and the International Assembly for Collegiate Business Education.

As a national leader in the field of service learning and engagement, DC teaches students to take the knowledge they have gained and use it to change lives for the better – in their communities, in their careers, and in the world.