

Welcome to UMF's 24th Symposium Day

April 20, 2022

The annual Symposium on the University of Maine at Farmington campus is a wonderful spring tradition where students, faculty, and staff pause the regular academic day to spotlight the scholarly work of students and share it with the campus and the wider world.

First held in 1999, the UMF Symposium represents the richness of academic rigor, original student research, and dedicated faculty mentoring that is a Farmington hallmark and takes place all over campus throughout the year. Though this year may have presented its challenges, it has also empowered our students to think creatively, our campus to collaborate thoughtfully, and our faculty to support the highest level of learning.

While the UMF Symposium brings together students and faculty focused on original academic research and creative expression, symposia are also a common means of interaction in the modern day professional world. Along with seminars and workshops, they help play a vital role in the dissemination of knowledge and the gaining of skills.

Similar to these professional events, Farmington's Symposium offers our students the opportunity to pursue their passion, develop a deep understanding of their work, build on their communication skills and share it with their colleagues. It is inspiring to see this wealth of student learning and how it will help prepare them for things to come.

Congratulations to all for your outstanding work, with a special thank you to the University Culture Committee and all faculty mentors and devoted staff who have committed themselves to the value of undergraduate research at Farmington.

Edward Serna, President

For more than two decades, UMF's annual Symposium has provided a singular opportunity to experience the outstanding academic work of students from across the university. The range of scholarly and creative projects is dazzling in itself, and represents untold hours of study and preparation, in addition to guidance and mentoring by faculty sponsors. No less dazzling is the commitment our entire campus makes to attending these papers, posters, and presentations, along with the showcase of Arts Night, enlivening UMF like no other day on the calendar.

As a university invested in the liberal arts and committed to undergraduate research in all disciplines, UMF proudly supports its students in the public rendering of such work. In that most celebrated of symposia, Plato's Symposium, the Greek philosopher Socrates speaks of a final "vision . . . revealed to him of a single science, which is the science of beauty everywhere." Symposium Day is truly a heralding of the "science of beauty everywhere," and a testament to the breadth and depth of all we do at this institution.

With special thanks to the University Culture Committee and the student presenters, congratulations to all those who contribute to this unique day on our campus!

Eric C. Brown, Provost and Vice President for Academic Affairs

The Michael D. Wilson Symposium reminds us that research and creative activity are never solitary adventures. Rather, scholarship and the fine arts emerge out of our community and are shared with this very community. Symposium thus speaks to the very heart of who we are as artists and knowledge seekers. Every member of our academic community is called to participate in the *generation* of art and knowledge. As such, Symposium is a celebration of engaged citizenship and an affirmation of our collective responsibility to make meaningful contributions to our shared world.

Steve Quackenbush, Associate Provost

This symposium is organized by the University Culture Committee:

Ann Bartges
Stephen Grandchamp
Misty Krueger (Chair)
Amy Neswald
Theresa Overall
Douglas Reusch

UMF Indigenous Land and Water Acknowledgement

We would like to begin by recognizing that the University of Maine at Farmington occupies the traditional homelands of the Abenaki people of Anmessokkanti, whose communities lived and sustained themselves along what we call the “Sandy River” for millennia until very recent times. We would like to honor them by sharing a short summary of this region’s significance to Abenaki people.

The Sandy River is a vital part of the food and kinship network extending throughout Abenaki or Wabanaki homelands. The river’s original name, Anmessokkanti, loosely translates to “land of the small fish,” being home to shad and alewives, and providing critical spawning habitat for Wild Atlantic Salmon. The plentiful fish populations here were a major food source for the Anmessokkanti and used as fertilizer for corn, beans, and squash cultivation. These crops, but corn in particular, were then shared with Wabanaki communities to the northeast whose soils and climates were less amenable to cultivation. This network was disrupted by colonialism and the industry, pollution, and river damming that accompanied it.

We acknowledge that UMF inherited its campus at the expense of the Abenaki community, after centuries of war, scalp bounty policies, and other tactics designed to extinguish the Abenaki from their own land. These events forced most Anmessokkanti to relocate to two Abenaki reservations in Quebec in 1704, called Wôlinak and Odanak. Many families descending from the Farmington area remain there today. We recognize that the dispossession and expulsion of the Abenaki from their homeland is an ongoing injustice upheld by settler colonialism. We pledge to bravely confront this painful reality.

We acknowledge that the Abenaki people of Odanak and Wôlinak descend from the original care-takers of this area, and maintain a sacred connection with it. We pledge to honor them by educating ourselves about their history and current struggles, and accepting our responsibility to correct ongoing injustice. We wish to also extend this acknowledgement to the Maliseet, Mi'kmaq, Penobscot and Passamaquoddy nations who, with the Abenaki, make up the Wabanaki people.

We recognize and affirm the sovereignty of the Native nations in this territory and beyond. We recognize that sovereignty means the ability to self-govern, and to govern over one’s homelands. We understand that this statement has real implications, and that decolonization is not a metaphor.

We pledge to continue our collaboration with Wabanaki people to further decolonize spaces and to transform UMF into a place that honors Wabanaki and other Indigenous peoples. We acknowledge that this is an ongoing process in which the University of Maine at Farmington promises to partake, in partnership the many Indigenous individuals who have contributed to this important cause.

(The Indigenous Land and Water Acknowledgement statement was authored by Mali Obomsawin [Odanak Abenaki First Nation, Bomazeen Land Trust] with input from Darren Ranco [Penobscot Nation, University of Maine].)

UMF Trustee Professorship

Symposium is a day to honor the value of scholarly and creative endeavor at UMF. Toward that end, we have chosen Symposium as an opportunity not only to showcase the work of our students, but also to bestow the university's most prestigious award for scholarship to a faculty member. The Trustee Professorship is given each year to one UMF faculty member in recognition of her/his distinguished record of scholarly or creative work. The Trustee Professor receives a cash stipend, a professional development allowance, and a half-time reassignment for an academic year in order to focus on a scholarly or creative project.

2021-2022 Trustee Professor

11:40 a.m. in Lincoln Auditorium

Bearing Witness: Women's Stories of War, Survival, & Connection

Nicole Kellett, 2021-22 Trustee Professor

Life history or testimonial work has the power to bring stories for which we are intimately familiar or that are largely foreign, home. In this presentation, Nicole Coffey Kellett, draws from a long-term life history project with a war survivor from Peru, Graciela Orihuela Rocha, and introduces an emerging testimonial project with a returning resident who has served a 25 to life year prison sentence, LaTasha Nicole Hopper.

Nicole will read excerpts from her forthcoming book, *Graciela: One Woman's Story of War, Survival and Perseverance* (University of New Mexico Press, 2022) that chronicles the life of Graciela who heralds from the epicenter of violence during Peru's war in the 1980s and 1990s. Graciela's history embodies the horrors, injustices, promises, and challenges faced by countless individuals who endured and survived the war. Her story provides intimate insights into deep-seated divisions within Peruvian society that center around skin color, gender, language, and ties to the land. In addition, while in its infancy, Nicole will describe a preeminent project with LaTasha that also embodies trauma and dehumanization as well as resilience, strength, and perseverance.

By bearing witness to these women's stories, we gain insight into the systemic challenges of determining truth, implementing justice, and envisioning reconciliation as well as a strength and beauty that is too often overshadowed, neglected, and silenced.

Past UMF Trustee Professors

Spring 1999: Mark McPherran
1999 – 2000: Ronald Butler
2000 – 2001: Jennifer Reid
2001 – 2002: Chris Magri
2002 – 2003: Dan Gunn
2003 – 2004: Ming-Ming Pu
2004 – 2005: David Daniel
2005 – 2006: Mike Muir

2006 – 2007: Tiane Donahue
2007 – 2008: Paul Outka
2008 – 2009: Drew Barton
2009 – 2010: David Gibson
2010 – 2011: Jeffrey Thompson
2011 – 2012: Eric Brown
2012 – 2013: Gretchen Legler
2014 – 2015: Allison Hepler

2016 – 2017: Nic Koban
2015 – 2016: Patricia O'Donnell
2017 – 2018: Jonathan Cohen
2018 – 2019: Michael Johnson
2019 – 2020: Steven Pane
2020 – 2021: Kristen Case

Michael D. Wilson Research Fellows and Scholars

The Michael D. Wilson Scholars and Fellows represent some of UMF's brightest students from across all disciplines. The program recognizes UMF students' tremendous creativity and expands UMF's commitment to undergraduate research and faculty mentoring. Each student is awarded funding to help underwrite an original undergraduate research or creative project. The Program has been providing single-semester support for research, scholarship, and creative projects at UMF since the fall of 2006. It was expanded in the fall of 2007 to include full-year Wilson Research Fellow awards to support even more substantive research projects. In the years since its inception, the Wilson program has supported the investigative research and creative activities of more than 250 students at UMF. During this time UMF faculty members have developed strong mentoring relationships with individual scholars, providing guidance with proposal development, research methodology, and continuing pre-professional and post-graduate opportunities.

The awards honor UMF alumnus, Michael D. Wilson, class of 1976, an avid environmentalist, aspiring teacher, and dear friend whose untimely death in 1977 deeply saddened the UMF community. The students are nominated by a UMF faculty mentor and, after a competitive selection process, are chosen by the UMF Undergraduate Research Council.

2021-2022 Wilson Fellow

Chelsey Drake – *The Role of Magmatic Processes in Concentrating Rare Earth Element Bearing Accessory Minerals: A Case Study Using the Mt. Waldo Pluton, Coastal Maine*

Faculty Sponsors: David Gibson and Julia Daly

Gabby Beaudoin – *Shame, Psychoeducation, and Service Use: Overcoming Caregiver Barriers to Child Mental Health Care*

Faculty Sponsor: Jennifer Blossom

Fall 2021 Wilson Scholars

William Chinnock – *Voisine v. United States (2016): An Analysis*

Faculty Sponsor: James Melcher

Suzanna Dibden – *The Impact of Civil Online Media Exchanges on Political Attitude Change: A Content Analysis of Reddit's Change My View Discussions*

Faculty Sponsor: Karol Maybury

Ali Hooper – *Ekphrasis on the Smith-Waite Tarot Deck*

Faculty Sponsor: Kristen Case

Tristan Huntoon – *Metal Music and the Sublime*

Faculty Sponsor: Kristen Case and Aaron Wyanski

Spring 2022 Wilson Scholars

Daniela Lilly Rodiles – *Translation of the Poetry of Elise Cowen: The Eclipsed Poet of the Beat Generation*
Faculty Sponsor: Kristen Case

Drew Monteith – *WALDO: A Short Film*
Faculty Sponsor: Dawn Nye

Emily Moore – *Keim Time: Expression Through Music*
Faculty Sponsor: Aaron Wyanski

Isabelle King – *Chapbook on Anxiety*
Faculty Sponsor: Kristen Case

Maxen Ryder – *The Plague Runners*
Faculty Sponsor: Lewis Robinson

Nik Shultz – *To Build a Queer: Contemporary Monster Theory*
Faculty Sponsor: Misty Krueger

Miles Stevens – *Where Life and Language Meet: An Interdisciplinary Collection in Context of My Sámi Heritage*
Faculty Sponsor: Stephen Grandchamp

Arts Week Events

Pixel Hunter Student Film & Animation Festival

April 18 at 7:00 p.m. in the Emery Community Arts Center

A collection of experimental short films and animations created by UMF students.

A Concert of Improvised Music (Arts Night)

April 19 at 4 p.m. in Nordica Auditorium

A selection of improvised music will be composed for you on the spot by UMF students.

Cirque du Surreal: Surrealist Fashion Show and Micro-Salon (Arts Night)

April 19 at 5:00 p.m. in the Emery Community Arts Center & UMF Art Gallery

A presentation of artwork and a live runway fashion show by the students of Elizabeth Olbert's ART 224A "Surrealism: The Permanent Revolution" class.

Performing Arts Senior Project Presentations (Arts Night)

Eli Mowry, Mollie Smith, Charity Webster, Tristan Huntoon, Simoane Lowell, and Audrey Bradbury

April 19 at 6 p.m. in the Emery Community Arts Center

As a prelude to Symposium Day, Arts Night will highlight the Performing Arts Senior Projects. The day will feature back-to-back artistic, sound, cultural and theatrical presentations at the Emery Community Arts Center immediately following the announcement of the Grote Scholarship award at 6 p.m. and continuing into the evening. This event will feature: Eli Mowry discussing his directing project, *Senior Prom* by Robert Means; Mollie Smith presenting her costume design project, *Ever After*; Charity Webster presenting a live music performance of the original composition, "My Children—Imagination to Life"; Tristan Huntoon presenting a live music performance of the original composition, "The Sublimity of Metal"; Simoane Lowell presenting a performance reading of original poems entitled "This Is a Title if You Want It to Be"; and Audrey Bradbury presenting an original performance, *Have Felt*.

Who We Are, What We Do: Senior Exhibition Artist Talks

Alan Baker, Abigail Cloutier, Theo Estêvão, Audrey Keith, Drew Monteith, Aaron Montell, Emma Pierce, Alexis Ramee, and Alexis Valeriani

April 20 at 1 p.m. in the Flex Space Gallery in the Emery Community Arts Center

Seniors in the Visual Arts Program will discuss their senior art show *Who We Are, What We Do*. This exhibit represents the culmination of their capstone research and features Alan Baker, Abigail Cloutier, Theo Estêvão, Audrey Keith, Drew Monteith, Aaron Montell, Emma Pierce, Alexis Ramee and Alexis Valeriani. Each student will discuss the concepts they have explored and topics that inform and shape their work which range from environmental activism, surrealism and horror to issues of identity, diversity, equality and personal growth. Please join us at the Flex Space Gallery in the Emery Community Arts Center.

A Reading by the Students in Advanced Fiction

Ava Anderson, Theo Cerami, Carrie Close, Josh Hoffman, Karly Jacklin, Anastasia Mertz, Elliot Morelli-Wolfe, Ally Pickarts, Em Platt, Terri Potvin, Jocelyn Royalty, Katie Sewell, Campbell Tankersley, Amy Wiggins, and Jared Wood

April 20 at 4 p.m. in the Emery Performance Space

The students in the current semester of ENG 310 “Advanced Fiction Writing” will each read a three-minute excerpt from a work-in-progress. Throughout April, the students will facilitate their own “Portrait of the Artist” workshop in which they describe a source of inspiration (visual art, music, film, etc.) before presenting their fiction. For this Symposium event, each student will choose a projected image to accompany their reading. Participating students include: Ava Anderson, Theo Cerami, Carrie Close, Josh Hoffman, Karly Jacklin, Anastasia Mertz, Elliot Morelli-Wolfe, Ally Pickarts, Em Platt, Terri Potvin, Jocelyn Royalty, Katie Sewell, Campbell Tankersley, Amy Wiggins, and Jared Wood.

An Evening of Performance

April 21 and April 22 at 7 p.m. in the Emery Community Arts Center

Students from “Advanced Acting” perform monologues and *Senior Prom*, a one act play by Robert Mearns and directed by Eli Mowry in a project for “Advanced Directing.”

UMF Chorus Performance

April 23 at 7:30 p.m. in Nordica Auditorium

Come join the UMF chorus as they sing a cappella contemporary choral works from all over the world including England, Newfoundland, Brazil and the United States. The UMF Chorus will conclude the concert with a performance of Stephen Sondheim’s Broadway Musical, *Sweeney Todd*.

David Gibson Memorial Event

3:00 - 4:00, Thomas Auditorium



David Gibson doing fieldwork with students.

Please join us as we honor the career of Dr. David Gibson who served UMF students as a Professor of Geology for over twenty-five years until his untimely death in December 2021. He was named UMF's Trustee Professor for 2009-2010 and given the Walter Sargent Undergraduate Research Mentor award in 2018; in 2019 he received national recognition when he was given the prestigious Undergraduate Research Mentor Award by the Geosciences Division of the Council on Undergraduate Research.

Given Dave's passion for mentoring undergraduate research, it seems appropriate to honor his contributions on this day dedicated to student research at UMF. This session will include an hour of short presentations by a few of Dave's colleagues and will be followed by an informal reception.

The Importance of Trained Geoscientists to Maine

Henry Berry, Maine Geological Survey

May Term Adventures in Ireland and Scotland

Martin Yates, University of Maine Survey

Canadian Perspective on Dave's Work on Appalachian Granites

Sandra Barr, Acadia University

On Three Decades of Collaborative Research

Dan Lux, University of Maine

Venue 1, Lincoln Auditorium

Wilson Fellows and Scholars, Walter Sargent Award, and Trustee Talk

9:20 - 9:40

The Effects of Civil and Uncivil Political Discourse on Observers' Opinions of Political Opponents

Suzanna Dibden

In this study we examined the effect of civil and uncivil political discourse upon participants' opinions of political outgroups. Our participants were randomly assigned to one of three groups. One group read a vignette depicting civil discourse, one group read a vignette depicting uncivil discourse, and one group did not read a vignette. Participants then filled out a questionnaire evaluating their opinions toward members of the political opposition. We hypothesized that participants in the civil group would express more charitable opinions toward the opposition compared to the control group, while those in the uncivil group would express more negative opinions. *(Faculty Sponsor: Karol Maybury)*

9:40 - 10:00

The Constitution, the Supreme Court, and Maine: *Voisine v. United States*

William Chinnock

A 2016 Supreme Court decision casts both the Second and Fifth Amendments, along with much of the American legal system, in an entirely different light. The 1996 Lautenberg Amendment, enacted as a bold piece of legislation seeking to curb the dangers posed by domestic violence offenders, is thrown under legal scrutiny by failing to recognize the infamous nature of the crime which it seeks to prosecute. Are those convicted under the Lautenberg Amendment constitutionally entitled to indictment by a grand jury? And if so, has Congress subverted this entitlement by labeling domestic assault a misdemeanor as opposed to a felony? *(Faculty Sponsor: James Melcher)*

10:00 - 10:20

Shame, Psychoeducation, and Service Use: Overcoming Caregiver Barriers to Child Mental Health Care

Gabby Beaudoin

There is a critical need to better understand caregiver-level factors that impact youth engagement in mental health services. The current study examines associations between caregiver shame regarding mental health treatment and their child's mental health service use, and whether this relationship is moderated by the caregiver's level of mental health knowledge. If so, these results will allow for future research in the development and implementation of an engagement intervention targeting caregivers' knowledge of children's mental health and service opportunities. *(Faculty Sponsor: Jennifer Blossom)*

10:20 - 10:30

Break

10:30 - 10:50

Where Life and Language Meet: An Interdisciplinary Collection in Context of My Sámi Heritage

Miles Stevens

Where Life and Language Meet is a project exploring my Sámi heritage. Following a brief background on the Sámi, the presentation will consist of showing selected poems from an original poetry collection informed by multimedia (photographs, drawings, and documents alongside poetry) accompanied by an analysis of how these fit into a larger contemporary narrative. This is a unique opportunity to not only explore poetry as heritage work, but gain insight into a culture not heavily featured in contemporary Western scholarship. (*Faculty Sponsor: Stephen Grandchamp*)

10:50 - 11:10

To Build A Queer: Contemporary Monster Theory

Nik Shultz

Queerness and monstrosity have a long and complex interconnected history with which contemporary artists often must contend when creating images of queer people. This presentation will explain some of that history, offer a framework for the thoughtful and skillful creation of queer monster media, and unveil a chapbook of work following that framework. (*Faculty Sponsor: Misty Krueger*)

11:10 - 11:30

Keim Time: Expression Through Music

Emily Moore

I am writing a piece of music for a wind quintet plus cello to tell the story of my late grandfather. I want to be able to show who he was throughout his life and express emotions through my music. I will be using a computer program to write the music, and I will be using the same program for a playback of the recorded instruments to present the final piece. Throughout my presentation, I will talk about my grandfather's story and the process I went through to write my composition. (*Faculty Sponsor: Aaron Wyanski*)

11:35 - 11:40

The Presentation of the Walter Sargent Undergraduate Research Mentor Award

In 2012, the Undergraduate Research Council presented the first Undergraduate Research Mentor Award. In 2013, the award was named to honor the late Walter Sargent, a UMF history professor and URC member. Walter was not only a council member, but a mentor of many undergraduate research projects that built a culture of undergraduate research in his discipline. We will present the 2022 Walter Sargent Undergraduate Research Mentor Award to a faculty member with a similar record of mentoring and establishing a culture of undergraduate research within the discipline.

11:40 - 12:20

Bearing Witness: Women's Stories of War, Survival, & Connection

Nicole Kellett, 2021 - 2022 Trustee Professor

Life history or testimonial work has the power to bring stories for which we are intimately familiar or that are largely foreign, home. In this presentation, Nicole Coffey Kellett, draws from a long-term life history project with a war survivor from Peru, Graciela Orihuela Rocha and introduces an emerging testimonial project with a returning resident who has served a 25 to life year prison sentence, LaTasha Nicole Hopper.

Nicole will read excerpts from her forthcoming book, *Graciela: One Woman's Story of War, Survival and Perseverance* (University of New Mexico Press, 2022) that chronicles the life of Graciela who heralds from the epicenter of violence during Peru's war in the 1980s and 1990s. Graciela's history embodies the horrors, injustices, promises, and challenges faced by countless individuals who endured and survived the war. Her story provides intimate insights into deep-seated divisions within Peruvian society that center around skin color, gender, language, and ties to the land. In addition, while in its infancy, Nicole will describe a preeminent project with LaTasha that also embodies trauma and dehumanization as well as resilience, strength, and perseverance.

By bearing witness to these women's stories, we gain insight into the systemic challenges of determining truth, implementing justice, and envisioning reconciliation as well as a strength and beauty that is too often overshadowed, neglected, and silenced.

12:20 - 1:10

Lunch

"Not Quite a Free Lunch," South Dining Hall

1:10 - 1:30

Translation of the Poetry of Elise Cowen: The Eclipsed Poet of the Beat Generation

Daniela Lilly Rodiles

The female Beat Generation writer, Elise Cowen, has been overshadowed by the canonical figures of America's 1950s literary era until very recent years, with the publication of her first poetry collection in 2014. This presentation will focus on the process of translating the never-before translated anthology titled "Elise Cowen, Poems and Fragments" to the Spanish language. Through the translation of the existing 93 poems, Daniela Lilly will position her Skopo's amongst other translation theorists, facing and calling into question the struggles presented by the dichotomous translation strategies of Domestication and Foreignization. (*Faculty Sponsor: Kristen Case*)

1:30 - 1:50

Her Burning Namesake

Alison Hooper

Her Burning Namesake is a collection of ekphrastic poetry centered around the twenty-two Major Arcana cards in the Tarot Deck illustrated by Pamela C. Smith. The Tarot Deck inspires personal growth and insight as a tool for self reflection and is a unique artwork in its interactiveness; viewers are encouraged to seek themselves

within the cards and make inferences about their meanings in a way that is inherently personal. By writing poetry about my deck, I hope to share some of the intimacy of my experience with others, while inviting readers to form their own connection with the cards. *(Faculty Sponsor: Kristen Case)*

1:50-2:00

Break

2:00 - 2:20

Making an Invisible Illness Visible: A Chapbook Exploring Anxiety

Isabelle King

During the spring semester of 2022, I researched and wrote a chapbook (a small publication of poetry containing between 10-40 poems) focused around the central theme of anxiety. I also incorporated a mix of digital and film photography to make this body of a work a mixed media piece. This mixed media project explores the intersection of the externally invisible nature of anxiety and its internal reality. It has allowed me to make an invisible illnesses visible. *(Faculty Sponsor: Kristen Case)*

2:20 - 2:40

The Plague Runners: A Novel

Maxen Ryder

The Plague Runners is a novel drafted over this semester. The story is about two brothers in a medieval village, one of whom contracts a deadly plague. The diseased man, Richard, is reluctantly willing to let himself die to protect the people. His brother, Damian, is a veteran returning from war whose long-standing issues with denial lead him to attempt a “rescue” of Richard that puts the entire realm at risk. The plot is unique as it explores mental health, community, death, and acceptance without judging the characters but rather exploring their psychology. *(Faculty Sponsor: Lewis Robinson)*

Venue 2, C-23, Roberts Learning Center

Anthropology and Psychology

9:20 - 9:40

Helping Others: Looking at Culture, Language, and Time

Nick Raupach

As a social phenomena, giving and receiving help is a complex behavior. This presentation will highlight the specific language used in the context of providing social support, and how this language has changed over time, as well as the impact of age on the act of helping another individual. Other social factors such as different identity constructs, power, and motivation will also be covered in relation to how they govern prosocial behavior. A particular focus on the notion of "filial piety" and helping others in South Korea will also be given to provide a cross-cultural comparative to the American context. *(Faculty Sponsor: Gaelyn Aguilar)*

9:40 - 10:00

War & Peace in the Paleolithic: The Drivers of Human Violence

Jack Crockett

Are humans inherently violent or peaceful? The debate regarding human nature is centuries old. This research project serves as a comparative analysis of the different perspectives regarding the human predisposition for violence versus peace with a strong focus on the archaeological evidence available for Paleolithic peoples. Using additional concepts and evidence from various fields of study, this project aims to shine a light on the human capacity for both violent conflict and cooperation through an in-depth discussion of the biocultural and environmental factors that have prehistorically influenced human behavior. *(Faculty Sponsor: Gaelyn Aguilar)*

10:00 - 10:20

The Decolonization of Cultural-Sharing Spaces

Whitney Durgin

This project looks at some of the ways that American colonialism is rooted in knowledge sharing spaces. Specifically, how spaces like museums, historical societies, and monuments contribute to rhetoric that erases culture and history. The methods in which these spaces share knowledge, such as through artifacts, and the ways in which experts are working to share knowledge in more respectful ways have been explored throughout this research. *(Faculty Sponsor: Gaelyn Aguilar)*

10:20 - 10:30

Break

10:30 - 10:50

Turbulence and Flow: Mental Health and Community at the University of Maine at Farmington

Nolan Crandall

There is a growing concern about the culture of mental health on college campuses, including here at Farmington: rates of depression and anxiety are increasing rapidly in students, especially as we struggle with

the isolation and unknowns of COVID-19. How are students adapting to meet their needs in a college setting? What are they doing to relieve stress? This ethnography seeks to present the current state of mental health culture at UMF through student voices. *(Faculty Sponsor: Gaelyn Aguilar)*

10:50 - 11:10

Finding Home: Somali Bantu Refugees

Shukri Abdirahman

The journey of a refugee is one of many hardships and survival. To be a refugee is to simply survive and thrive. This research project looks at cross-cultural experiences of mental health within the Somali Bantu Refugees. Examining pre-migration and post-migration stressors, looking at how Somali Bantu refugees have shown resilience through many hardships, and also looking at cultural concepts that clash, different generational experiences, and the role religion has in the experience of mental health. *(Faculty Sponsor: Gaelyn Aguilar)*

12:20 - 1:10

Lunch

"Not Quite a Free Lunch," South Dining Hall

1:10 - 3:40

PSY 400 Independent Research Projects

Aliza S. Adams, Lavonne Agyeman, Abbey Aho, Emelia Arnett, Alexandra Banks, Corbin Bouchard, Morgan Noonan, Jocelyn Royalty, Brenna Saucier, Christa Wilcox, and Sierra Zahares

Eleven Psychology and Business Psychology students will present their research on: correlations between undergraduates' well-being and TikTok content; attachment style and preferred "love language"; undergraduates' expectations of marriage as a function of their parents' marital status; the impact of unexpected social media photographic memories on grieving; the impact of domestic upheaval on animal adoption; attitudes toward animal adoption source; the impact of professor creativity on student academic performance; perceptions of a defendant's guilt after Psychological expert testimony; the impact of homeowner race on observers' valuation of a home; how a short video impacts environmental attitudes; and risk taking behaviors in college. *(Faculty Sponsor: Karol Maybury)*

Venue 3, Thomas Auditorium

Natural Sciences and Geography

1:10 – 1:30

Campus Carbon Study: A Broad Overview

Cassie McCaslin, Tess Gioia, and Caeden R. Bross

Trees extract carbon from the atmosphere and store it within their bodies, but what does that entail for the Farmington area? Trees on and nearby the University of Maine at Farmington campus were measured and analyzed, whereupon the results were compared to records from local forests and used to estimate future carbon sequestration. A tree's circumference is input into an equation - which differs with respect to the tree's species - and computed to determine the approximate carbon content of the tree. Generally, UMF seems to have strong carbon sequestration compared to other locations. *(Faculty Sponsor: Jesse Minor)*

1:30 – 1:50

Campus Carbon Study: Data and Analysis

Jack Kane, Maya Deming, Angel Brackett, and Samuel C. Peterson

Trees sequester large amounts of carbon through the process of photosynthesis, making them great for carbon sequestration. Due to rising CO₂ levels in the atmosphere from anthropogenic activities, carbon sequestration is an important factor in combating climate change. We assessed the amount of sequestered carbon on UMF's campus by surveying the species, size, and structural type (overstory versus sapling) of trees within the campus or in UMF's off-campus forests. This data was then converted to find the total carbon stored in each measured tree. Carbon stored in different areas of campus and from different tree types were measured and compared. *(Faculty Sponsor: Jesse Minor)*

1:50 – 2:10

Moose Populations in Maine and *Parelaphostrongylus Tenuis*: Looking at the Possible Reasons P-Tenuis May Be Increasing in Maine

Dorene Jackman

Parelaphostrongylus tenuis is a parasitic worm that infects deer and moose populations throughout the Northeastern parts of the U.S. and Canada. Is food availability the cause of the increase of shared wintering areas between the moose and deer and may be affecting the increase of *p-tenuis*? If so, why? For this research, data obtained from Maine GIS Data Catalog, National Land Cover Dataset, US Fish & Wildlife Service GIS Data was used to determine areas where deer and moose habitat overlap, as well as past research to determine the possible causes of the increase in *p-tenuis* cases in Maine. *(Faculty Sponsor: Brad Dearden)*

Venue 4, Roberts 101

History, Political Science, and Environmental Policy and Planning

9:00-9:20

Moving Forward and Looking Back: How Brittany Survived the French Revolution Into the 19th Century

Joseph Campbell

The Breton people of France have long had a distinct culture and national history which somehow survived even throughout the Frenchification of the revolution which began in 1789. I argue that the conditions immediately after the revolution contained a sort of genesis of the modern Breton tradition, which can be found in their emergent literature and art in the early 19th century.

(Faculty Sponsor: Allison Hepler)

9:20 - 9:40

The Unconventional Dollar

Nolan Pakulski

The creation and demise of the United States Trade Dollar in the 19th century must be seen in three distinct contexts: the problematic history of the United States Mint and the circulation of silver currency; government corruption and the Comstock Lode silver bonanza of the mid to late nineteenth century; and the Coinage Act of 1873. I argue that this helped shape the US's increased involvement in foreign markets during the Gilded Age.

(Faculty Sponsor: Allison Hepler)

9:40 - 10:00

Wilted Rose: How Margaret Chase Smith Lost in 1972

David Ballard

Senator Margaret Chase Smith was a political giant among an arena of men. She won races by the largest margins. She was the first woman of the Senate, and first to serve in both Congressional chambers. She was the first to run for president for a major party, and in 1972 she lost. Why? It is the working theory that she lost because of the young voters, but that needs to be explored. Join in and see how Margaret Chase Smith lost her 1972 reelection campaign. *(Faculty Sponsor: Allison Hepler)*

10:00 - 10:20

Presidential Privilege and the Supreme Court

Malcolm Langner

Executive privilege is defined as "the privilege, claimed by the president for the executive branch of the US government, of withholding information in the public interest." Indeed, the president doesn't need to distribute all of the information within the White House. However, if the president is partaking in suspicious activity, there must be a line deciphering whether it is in the public's best interest to have knowledge of these activities. In the landmark case *United States v. Nixon*, the Supreme Court ruled against Nixon, severely limiting executive

privilege. This study looks at similar cases and dissects the essence of executive privilege. (*Faculty Sponsor: James Melcher*)

10:20 - 10:30

Break

10:30 - 10:50

2022 House Elections Predictive Model

Shea Justice

I have produced a model for the 2022 house elections. It involves data from all fifty states. Discussion will be of a 2022 House elections model, how the data was collected, how the results ought to be interpreted in light of the data, as well as the sociological and political currents which influenced the outcome of the data. A circumscription of American culture, as well as the character of current political discourse, will also be discussed and extrapolated from the data. (*Faculty Sponsor: James Melcher*)

10:50 - 11:10

The Right to Counsel: How Gideon v. Wainwright has Affected the Criminal Justice System

Brodie Morse

The Warren Era court handed down some of the most influential Supreme Court decisions surrounding a defendant's civil rights during criminal trials in the history of the United States. One of the most important rulings during this era is *Gideon v. Wainwright* 372 U.S. 335 (1963) where the Supreme court established that a defendant has the right to court appointed counsel. We will be discussing how this decision impacted state courts all across the country, the U.S Justice system and more specifically, how Maine's court system has dealt with the rippling effect of this decision. (*Faculty Sponsor: James Melcher*)

12:20 - 1:10

Lunch

"Not Quite a Free Lunch," South Dining Hall

1:10 - 1:30

Maine Inland Fishing Regulations: A Digital Divide in Understanding?

Michael Levesque

Many governmental resources are being made available on the web. In Maine, inland fishing laws are no exception. A transition is actively taking place from printed, magazine-sized law books, to digital webpages. This study will examine how people who currently fish Maine's inland fishing waters stay informed about fishing regulations. A self administered survey will be distributed that examines where participants fish, their age, where they live and their current preferences when looking up fishing laws. Results of this survey will determine if geographic location, age or attitudes towards technology might affect how people are informed on fishing regulations. (*Faculty Sponsor: Brad Dearden*)

1:30 - 1:50

The Impacts of Climate Change on Deer Ticks in Maine

Tommy Hainsworth

Warming winters and changing climates have affected many different species throughout Maine causing habitats to expand, shrink or change location entirely. The focus of this research was on the population of deer ticks throughout the state of Maine and how changing climate patterns may have caused a change in the scale of their habitat. This research was conducted through secondary sources by reviewing previously published and peer-reviewed literature. It was predicted that deer tick habitat would be seen expanding northward with warming winters. (*Faculty Sponsor: Brad Dearden*)

1:50 - 2:40

Break

2:40 - 3:00

Are Warming Winters Due to Climate Change in the United States, Benefiting Certain Species of Animals?

Zachary Berliner

Climate change in the US has seen less snowpack during the winter with each passing year, resulting in many animals having seen their habitats and population ranges move northward. Species of animals that rarely interacted before may be seen sharing similar habitats as these species start to adapt to warming winters, however, it is predicted that many species will struggle to adapt to warming temperatures. The research conducted will be looking at a set of species that are predicted to actually be benefiting from warming winters which will be reported on by a series of maps. (*Faculty Sponsor: Brad Dearden*)

3:00 - 3:20

The Impacts of Climate Change on Atlantic Puffins

Olivia Bucknam

Atlantic puffins are just one example of a species being directly impacted by climate change. Select islands off the coast of Maine and Eastern Canada are examples of some of the limited places puffins live and breed; these places also happen to be disproportionately affected by climate change. This has posed, and will continue to pose, threats to the delicate ecosystem balance that puffins depend on to survive. This research project will outline and inform readers of the challenges puffins face as the effects of climate change continue to worsen in the Gulf of Maine. (*Faculty Sponsor: Brad Dearden*)

3:20 - 3:40

The Environmental Variables of Invasive Green Crabs

Anna Flannagan, Ellie Hatt, Eve Fischer, Maria West, Riley Samson, and Simon Spear

We conducted environmental site assessments at three coastal locations used by the conservation nonprofit Manomet to monitor invasive green crab populations. Using tools and methods common to physical geography, we measured physical characteristics of the sites, including the slope, rugosity, tidal range, and wave exposure.

We used Excel and ArcPro to create maps and slope profiles of the monitoring sites. The site assessments will allow Manomet to correlate trends in crab demography and population with environmental variables. We also collected pre-season green crab monitoring data, which contributes to Manomet's long-term dataset. (*Faculty Sponsor: Jesse Minor*)

3:40 - 4:00

Assessing Risk and Awareness of Phishing in Maine College Students

Allen Cherkis

Cyber-attacks are a costly and expansive facet of crime. One of the most prevalent forms of cyber-attack in the US is phishing—a crime which involves the persuasion of target(s) to provide sensitive information via communication services such as email, text, and social media (Phishing.org, 2022). Increased screen time throughout the Covid-19 pandemic has left students as a particularly vulnerable group regarding phishing attacks. Using student surveys, phishing message classification tests and campus IT interviews, this research seeks to assess how academic background and cyber awareness might associate with phishing risk and test-scenario performance amongst college students. (*Faculty Sponsor: Brad Dearden*)

Venue 5, The Landing, Student Center

Creative Writing, Honors, and English

10:00 - 11:00

Creatively Writing the Truth: An Interactive Workshop/Reading

Aaron Beckett, Kaiden Clark, Cooper Davis, Em Remington, Maureen Lorello, Natalie Roy, Ashley Ward, and Niko Wilson

What does it feel like to write the truth, creatively? Writers from the spring 2022 “Beginning Creative Nonfiction Workshop” will share the challenges of writing about their "real" lives and lead participants in an informal group creative nonfiction writing workshop. *(Faculty Sponsor: Gretchen Legler)*

12:20 - 1:10

Lunch

"Not Quite a Free Lunch," South Dining Hall

1:30 – 2:10

Making Monsters

Lindsey Boylen, Megan Cates, Isabelle Couture, Mullein Francis, Gabbi Fultz, Sylvie Haslam, Rachel Hatfield, Emma Hixon, Valentina Levesque, Anna MacDonald, Elliot Morelli-Wolfe, and Madeline Pumphrey

Students from Honors 277H: “Monsters” will present their plans for and progress on a collaborative exhibit on monsters. *(Faculty Sponsor: Misty Krueger)*

2:10 - 2:40

Break

2:40 - 4:00

English Capstone Presentations

Isabelle King, Brooklyn Miller, Ebony Hyatt, Ally Pickarts, Daniela Lilly Rodiles, and Miles Stevens

Upper-level English students present a fascinating array of independent scholarly and creative capstone projects. Projects include a feminist reading of a horror game franchise (Miller), an exploration through fiction of the Victorian language of flowers (Hyatt), a mixed-media investigation of anxiety (King), a creative exploration of the relationship between music and literary prose (Pickarts), a chapbook of poetry on Sámi identity (Stevens), and an English-Spanish translation of previously little known Beat poet Elise Cowen (Lilly Rodiles). *(Faculty Sponsor: Kristen Case)*

Venue 6, Emery Community Arts Center

Visual Arts and Creative Writing

1:00 - 3:00 (Emery Flex Space Gallery)

Who We Are, What We Do: Senior Exhibition Artist Talks

Alan Baker, Abigail Cloutier, Theo Estêvão, Audrey Keith, Drew Monteith, Aaron Montell, Emma Pierce, Alexis Ramee, and Alexis Valeriani

Seniors in the Visual Arts Program will discuss their senior art show *Who We Are, What We Do*. This exhibit represents the culmination of their capstone research and features Alan Baker, Abigail Cloutier, Theo Estêvão, Audrey Keith, Drew Monteith, Aaron Montell, Emma Pierce, Alexis Ramee and Alexis Valeriani. Each student will discuss the concepts they have explored and topics that inform and shape their work which range from environmental activism, surrealism and horror to issues of identity, diversity, equality and personal growth. Please join us at the Flex Space Gallery in the Emery Community Arts Center. *(Faculty Sponsor: Jesse Potts)*

4:00 - 5:30 (Emery Performance Space)

A Reading by the Students in Advanced Fiction

Ava Anderson, Theo Cerami, Carrie Close, Josh Hoffman, Karly Jacklin, Anastasia Mertz, Elliot Morelli-Wolfe, Ally Pickarts, Em Platt, Terri Potvin, Jocelyn Royalty, Katie Sewell, Campbell Tankersley, Amy Wiggins, and Jared Wood

The students in the current semester of Advanced Fiction Writing will each read a three-minute excerpt from a work-in-progress. Throughout April, the students will facilitate their own "Portrait of the Artist" workshop in which they describe a source of inspiration (visual art, music, film, etc) before presenting their fiction. For this Symposium event, each student will choose a projected image to accompany their reading. *(Faculty Sponsor: Lewis Robinson)*

Venue 7, Education Center Lobby

Education

9:20 - 9:50

Exploring Middle Grade and Young Adult Literature with a Vision of Our Future Students

Hannah Armstrong, Emma Brown, Sharon Buker, Emma Campbell, Tiffany Chadbourne, Haylee Gagnon, Noah Grindstaff, Katie Hammer, Haylee Janosco, Kristen Ladner, Jayme Loisel, River Lusky, Neal Bradley, Sierra Pennington, Bailee Sabine, Belle Sawyer, Emily Stinson, Xavier Trask, Sean Whalen, and Rosalie White

How might we help our future students engage in literacy practices in meaningful ways? How will we know which books to recommend or choose for instruction? The Book Challenge was the means to develop our knowledge of children's literature for the intermediate and middle school audience in order to explore these questions. Many of these were shared texts, texts recommended by our 4th grade Book Buddies in Wiscasset, or texts selected based on honors and awards, blog posts, or book lists. With each of the texts, we explored ways in which learning could be expanded or deepened while considering alignment to the English Language Arts Standards. In our session you will learn about the texts we read, structures for engagement, and extension activities we explored on our journey of the Book Challenge. *(Faculty Sponsor: Kathryn Will)*

Venue 8, Education Center 114

Education

10:00 - 11:00

Preservice Teacher Research on Place-based Education

Alex Bessey, Vanessa Bisson, Hailee Macomber, Sam Martineau, Jade Petrie, Abby Pomerleau, Chenoa Savage, and Koley True

Each year, seniors in Early Childhood Education have a unique chance to design and implement an authentic research study around a relevant and timely theme. By asking and attempting to answer questions that are important to them, these soon-to-be practicing educators are empowered to effect change in their own teaching, classrooms, and communities. Join us as eight preservice teachers describe their work around “Place-based Education,” from question posing and planning through analysis and implications for the field.

(Faculty Sponsor: Leigh Ann Fish)

Venue 9, North Dining Hall

Posters and Interactive Media Station

Please note that all poster presenters are expected to be at their posters to address questions for at least one hour, either between 10:00 and 11:00 or between 1:10 and 2:10. Poster presenters must set up between 8:00 and 9:00 am. The poster session will be open from 9:00 am until 2:30. The poster presenters will remove their posters between 2:30 and 3:30.

Poster #1

Phoenixin-14 influences genes related to cell growth and reproduction in female pufferfish (*Dichotomyctere nigroviridis*)

Anysa Phaneuf, Sierra Huff, and Bethany Tripp

Phoenixin (PNX) is a highly conserved vertebrate hormone that has diverse functions including reproduction and metabolism regulation, though these functions are not well understood in fish. This study assessed hypothalamus and ovary transcriptomes after PNX-14 treatment in female green-spotted puffer (*Dichotomyctere nigroviridis*) using RNA sequencing and qPCR, as well as steroid-related genes in liver. Puffers were injected with PNX-14 or saline and sampled 24 hours later. Numerous differentially expressed genes were identified in both PNX-treated ovary and hypothalamus, with many related to cell growth and metabolism, while livers were largely unaffected. Future directions should focus on higher PNX doses to induce stronger responses. *(Faculty Sponsor: Timothy Breton)*

Poster #2

Geospatial Analysis for Sustainable Use of Spent Grains

Zackary Laflamme

This project represents initial analysis from a semester-long collaboration with a spent grain and food waste management company founded by a former UMF graduate. Their mission is to feed local farm animals with waste products from breweries, distilleries, cideries, throughout Massachusetts and southern Maine. The study focuses on developing a geospatial analysis of sites of spent grains in the New England region, including locations of nearby farms to help Against the Grain identify market demand. This analysis considers transportation logistics, optimal routing, and operational efficiency, even developing a life cycle assessment/environmental analysis of avoided carbon, emissions, and water savings. *(Faculty Sponsor: Matt McCourt)*

Poster #3

Assessing the Spatial Distribution of Surficial “Spider” Features at the Martian South Pole

Chelsey Drake

During the Martian winter, a layer of CO₂ ice forms at the south polar region. In the spring, solar energy penetrates this ice layer and sublimates CO₂ from underneath. The pressurized gas breaks through weak spots in the ice, causing a CO₂ gas jet to erupt into the atmosphere. Repeated eruptions erode the underlying substrate, producing the Martian Araneiform terrain (referred to as Martian “spiders”). This project aims to assess the spatial distribution of spider features at the Martian south pole and investigates how topography, solar energy

input, and time-dependent shadowing influence the distribution of these features. (*Faculty sponsors: Luke Kellett and Julia Daly*)

Poster #4

Fracturing Mantle “Antacid” for CO₂ Uptake with Thermonuclear Devices

Will Robert, Brent Soucy, and Jeremy Pica

The objective of carbon dioxide removal (aka “Plan B”) is to offset the unprecedented level of CO₂ located in the atmosphere by accelerating natural processes that are carbon sinks. One strategy to achieve this goal invokes large-scale fracturing of “antacid” deposits within the ocean to promote the acid-base reaction between mantle peridotite and CO₂ (carbonic acid). We will explore surface area as a variable, which might be increased through the detonation of thermonuclear devices. (*Faculty Sponsor: Douglas Reusch*)

Poster #5

Melt-Driven Runoff in the Beaver Brook Watershed

Alexander Kane and Avery Bucknam

This project focuses on the collection and presentation of data on melt-driven runoff within the Beaver Brook watershed, mainly saline content. Our goals are to determine points of concentrated contaminants, variation of concentration in relation to air temperature, and to communicate the effects of such contaminants on the biosphere. This is done quantitatively by measuring salt and total dissolved solids along with air and water temperatures of water bodies in the upper and lower watershed. We have already found in early data that the farther downstream a sample is taken, the higher the concentration of dissolved solids will be.

(*Faculty Sponsor: Jesse Minor*)

Poster #6

Going Green with Olivine

Teraesa Gioia, Twilight Smart-Benson, and Chelsea Roy

Humans have altered the photosynthesis-respiration cycle, also known as the planetary fuel cell, through heavy usage of fossil fuels, deforestation, and other CO₂-emitting anthropogenic activities. To put the world back on track, in addition to cutting emissions, we must consider carbon dioxide removal (CDR)- Plan B (aka Staten Island project). The mineral olivine, which is abundant in Earth’s mantle exposed on oceanic fault scarps, can react with CO₂ to form carbonate. We plan to explore the role of temperature in optimizing this reaction. (*Faculty Sponsor: Douglas Reusch*)

Poster #7

Assessing Roles of Acidity and Iron Oxidation in Carbon Dioxide Removal (CDR)

Luke Bliss, Emily Anne Eaton, and Colin Glencross

We are looking into the potential downsides of CDR, intended to lower the global CO₂ level. One such CDR process involves the alteration of mantle rock and related formation of carbonate deposits at low temperature hydrothermal vents. First, we will explore the role of acidity in accelerating the CDR reaction. We also consider the consequences (e.g., methane production) of oxidizing ferrous iron in these rocks undergoing serpentinization (i.e., olivine hydration). (*Faculty Sponsor: Douglas Reusch*)

Poster #8

Changes to Maine's Winter Weather

Alexander Ingalls

The properties of winter weather in Maine are examined using several forms of analysis to illustrate changes in winter weather patterns over the past 40 years. While previous studies have determined several ways that climate change affects the entire state, this study seeks to better understand the impact of these changes in five specific regions. The resulting analyses show how certain atmospheric variables such as precipitation, temperature, and snowfall vary in magnitude and location across the state and over time. The results suggest these changes have different consequences for different areas of the state. *(Faculty Sponsor: Julia Daly)*

Posters #9 - #23

Sustainability, Climate Change and the Adventure Travel Sector

William Brenner, Ryan Brueninghaus, Mitchell Carey, Justin Castaldo, Ben DeMerchant, Spencer Dyer, Hunter Graham, Charlie Katz, Wyatt Lambert, Emily Larochelle, Eric McCallum, Kayo Nishimoto, Piper Redman, Ellah Smith, and Coleman Watson

The following issues for specific sub-sectors of adventure travel will be addressed: the impact of the sub-sector on climate change and the environment; the impact of climate change and environmental issues on the sub-sector; mitigation strategies; and adaptation strategies. *(Faculty Sponsor: Frank Engert)*

Interactive Media Station

Pandemic Stories: The Impact of the Pandemic in our Community

Daniela Lilly Rodiles

This Interactive Media Station presents personal stories from the COVID-19 pandemic collected from individuals in our community. The stories presented in this interactive site showcase the varied experiences and valuable emotions that emerged through the turbulence of this global crisis. *(Faculty Sponsor: Olivia Donaldson)*

A Tribute to Michael D. Wilson

Michael D. Wilson graduated from UMF in 1976. He loved teaching, helping children grow and develop. He reached out to help people whenever he could. He also had a deep love for the beauty and serenity of the wilderness where he felt a deep sense of connection.

Michael chose to live his life in a manner that was true to his beliefs. Many people remember him as a special person and a good friend. He died in a tragic accident in 1977, just as he was preparing to begin a new teaching position in a small town in Aroostook County.