



**Undergraduate
Research
and
Creativity
Conference
Friday, April 17th, 2015**



MONTANA
STATE UNIVERSITY
BILLINGS



CITY COLLEGE
MONTANA STATE
UNIVERSITY BILLINGS

PRESENTATION SCHEDULE

12:30	Participant Registration and Poster Set-Up (LA Lobby 2nd floor)
1:00	Chancellor Nook - Kickoff Speech in LI 148
1:15	Poster Presentations begin
	Baus through Kautz on 1st floor
	Kennedy through Wyss on 2nd floor

LI 148 Presentations

1:15	Reducing Food Insecurity in Yellowstone County Honors Capstone Class
1:45	The Journey to Sand Creek Massacre Vanessa Santana
2:00	The Natural Warrior of WWI: Native American Perceptions Kaja Anderson
2:15	Victorian Women in Music Korrin Dietz
2:30	Two Russian Composers Serin Kwon
2:45	What's Poppin', Chopin? Drew McDowell
3:00	Impossible Darryn Lombard
3:15	Shaken Susan Hayes
3:30	In-vitro Reconstitution of Sulfite Reductase from <i>Pseudomonas aeruginosa</i> Aubree Honcoop
3:45	Changing Configurations of Culture James Ellis



PRESENTERS

Anderson, Kaja

Title: The Natural Warrior of World War I: Native American Perceptions

Faculty Mentor: Reno Charette, Tom Rust

Major: History

Project Narrative: Using the scope of World War I, this presentation examines the common perceptions placed on Native Americans, how those perceptions were conceived—such as through the media and testing—and how Native Americans themselves helped to reinforce those stereotypes.

Baus, Chris

Title: Photosynthesis in cottonwood (*Populus deltoides*)

Faculty Mentor: Stanley Wiatr

Major: Biology - Environmental Science

Project Narrative: Investigation of the photosynthesis of mature cottonwood (*Populus deltoides*) trees during late summer and early fall 2014. Parameters were measured in situ with a Licor 6400XT Photosynthesis system.

Baus, Hanna

Title: Craigslist Personals: Hooking Up or Finding Love

Faculty Mentor: Jennifer Scroggins

Major: Criminal Justice, Sociology

Project Narrative: An analysis of Craigslist personal ads examining the differences in how men and women market themselves to dates and mates online.

Baus, Hanna

Title: This Wasn't Part of My Sentence: An in-depth look at healthcare in women's prisons

Faculty Mentor: Jennifer Scroggins

Major: Criminal Justice, Sociology

Project Narrative: A reflection on the policies surrounding the access to healthcare in women's prisons and a reflection on women's reproductive rights.

Bauwens, Trent

Presentation Title: Ethanol Production from Sugar Beets

Faculty Mentor: Andrew Sullivan

Major: Process Plant Technology

Project Narrative: Research that focuses on the fermentation and distillation stages of the process of sugar converted to ethanol via placement in a fermentation reactor and then separation from the reaction mixture using distillation. The research results in an optimized procedure documenting the process including an economic analysis.



Bernhardt, Chad

Presentation Title: Ethanol Production from Sugar Beets
Faculty Mentor: Andrew Sullivan
Major: Process Plant Technology
See page 4: Bauwens, Trent

Boucher, Tyler

Presentation Title: The Effect of Beetroot Crystals on Various Factors in the Active Human Body
Faculty Mentor: Kathe Gabel
Major: HHP - Human Performance
Project Narrative: Evaluation of the effects of a nitrate supplement on oxygen saturation, blood lactate, blood pressure, heart rate and rate of perceived exertion after exercise in young adults.

Brost, Tami

Presentation Title: Perceptions of Homelessness among Billings Women
Faculty Mentor: Jennifer Scroggins
Major: Criminal Justice, Sociology
Project Narrative: Survey analysis on the perception of homeless women in Billings from the workers who interact with the population.

Brown, Bailey

Presentation Title: American Indian Public Health
Faculty Mentor: Jennifer Scroggins
Major: Sociology
Project Narrative: A content analysis of public health efforts among American Indians.

Burton, Janell

Presentation Title: Under What Circumstances is Crime Justifiable
Faculty Mentor: Jennifer Scroggins
Major: Criminal Justice
Project Narrative: Cross-sectional research that examines via surveys about whether individuals believe certain crimes are justifiable.

Demarais, Lisa

Presentation Title: Women's Healthcare Policies
Faculty Mentor: Jennifer Scroggins
Major: Criminal Justice, Sociology
Project Narrative: Evaluating public policy regarding women's healthcare and suggesting policy changes. Project will incorporate ideas based on service work at Planned Parenthood Montana.

6 Demarais, Lisa

Presentation Title: Factors Attributed to Women with Eating Disorders

Faculty Mentor: Jennifer Scroggins

Major: Criminal Justice, Sociology

Project Narrative: Discovering the factors attributed to women who are in recovery with eating disorders via semi-structured interviews.

Dietz, Korrin

Presentation Title: Victorian Women in Music

Faculty Mentor: Dorothea Cromley

Major: English

Project Narrative: Presentation of two acts of a screenplay (with visual aids) to demonstrate Fanny Mendelssohn's life in music.

Dockter, Matthew

Presentation Title: The Relationship between Student Religiosity and Academic Success

Faculty Mentor: Jennifer Scroggins

Major: Criminal Justice

Project Narrative: Presentation that examines a survey of students' beliefs about the relationship between student religiosity and academic success.

Doornek, Cash

Presentation Title: Ethanol Production from Sugar Beets

Faculty Mentor: Andrew Sullivan

Major: Process Plant Technology

See page 4: Bauwens, Trent

Eagle Tail, Desja

Presentation Title: Reducing Food Insecurity in Yellowstone County

Faculty Mentor: Virginia Mermel

Major: Music - Business

Project Narrative: Presentation consisting of information on hunger and food distribution, ways to improve food distribution through addressing access issues: increasing recycling, improving donations, and increasing reclamation.

Eisenach, Calvin

Presentation Title: The Human Element of Water Quality

Faculty Mentor: Susan Gilbertz

Major: Environmental Studies

Project Narrative: An in-depth look at the varying views and opinions of the people in Eastern Montana affected by the oil and gas development as well as the overall human element of water quality.



Ellis, James

Presentation Title: Changing Configurations of Culture: Gender, Sexuality, and Expression in Weimar Berlin, 1919-1933

Faculty Mentor: Jennifer Lynn

Major: History

Project Narrative: The German Revolution of 1918-1919 signaled tremendous change within social, political, and technological cultures that characterized Germany during the Weimar Republic. Contrasting images of gender and sexuality in the context of social constructionism permeated debates revolving around permissible social behaviors. The effects of exclusionary principles within the Weimar Republic led to the formation of distinct identities among the various minority groups in Berlin at this time.

Felig, Jehremy

Presentation Title: Does codon bias contribute to Familial Dysautonomia?

Faculty Mentor: Lynn George

Major: Broadfield Science - Teaching

Project Narrative: Familial Dysautonomia (FD) is a devastating disease of the peripheral nervous system that results from a mutation in the IKBKAP gene and loss of its corresponding protein IKAP, a scaffold that assembles the multi-subunit complex, Elongator. In this study we want to isolate key genes that depend on Elongator for normal translation. We are currently analyzing BRCA2 using immunohisto chemistry and with an anti-BRCA2 primary antibody.

Hampton, Theodore

Presentation Title: Reducing Food Insecurity in Yellowstone County

Faculty Mentor: Virginia Mermel

Major: Art

See page 6: *Eagle Tail, Desja*

Hance, Kalen

Presentation Title: Reducing Food Insecurity in Yellowstone County

Faculty Mentor: Virginia Mermel

Major: Public Relations

See page 6: *Eagle Tail, Desja*

Hanley, Jaci

Presentation Title: Can different types of suicides be determined using Emile Durkheim's theory of suicide?

Faculty Mentor: Jennifer Scroggins

Major: Criminal Justice

Project Narrative: Research on Emile Durkheim's theory of suicide along with the different characteristics of suicide as compared to various forms of media concerning suicide.

8 → **Hanson, Avery**

Presentation Title: Molecular Mechanics of the Fungal Morphogenesis Inhibitor BH3i-1

Faculty Mentor: Matt Queen

Major: Chemistry

Project Narrative: *Candida albicans* (*C. albicans*) is an opportunistic pathogen that leads to a broad spectrum of superficial and life-threatening systemic and or invasive infections. *C. albicans* undergoes a budded-to-hyphal transition that is important for pathogenicity in response to various environmental stimuli. The small molecule BH3i-1 has been exceptionally effective at inhibiting the fungal morphogenesis of *C. albicans*. The primary objective of this project was to investigate the key electronic features that influence the activity of BH3i-1 and four unique derivatives using computational chemistry methods.

Hanson, Avery

Presentation Title: Caffeine Content Analysis of Urine

Faculty Mentor: Matt Queen

Major: Chemistry

Project Narrative: Examining the dangers and benefits of caffeine via experimentation using gas chromatography and mass spectrometry (GC-MS) to analyze for caffeine and caffeine metabolites in urine samples from people that have different amounts of caffeine to determine the accuracy of this method in determining original concentrations.

Hayes, Susan

Presentation Title: Shaken

Faculty Mentor: Bernard Quetchenbach

Major: English – Teaching, Reading

Project Narrative: Presentation of a biographical essay on life during and after my son suffered from a traumatic brain injury sustained by shaken baby syndrome.

Henrichs, Chris

Presentation Title: Oil Seed Press Optimization

Faculty Mentor: Andrew Sullivan

Major: Process Plant Technology

Project Narrative: Research explores facilities and procedures to produce oil from native Montana crops such as camelina and sunflower seeds. Optimum operating parameters are documented including press rate, end clearance, extruder temperature, and nozzle dimension. Design and construction of a temperature controller is included.

Honcoop, Aubree

Presentation Title: In-vitro Reconstitution of Sulfite Reductase from *Pseudomonas aeruginosa*

Faculty Mentor: Tom Lewis

Major: Biology, Chemistry

Project Narrative: Testing the hypothesis that FprA is a component of a novel sulfite reductase enzyme by in-vitro reconstitution using the purified proteins CysI and FprA. Also investigating the possibility that a downstream, overlapping reading frame (PA1837) may also be necessary for functional CysI production.



Honcoop, Aubree

Presentation Title: Caffeine Content Analysis of Urine
 Faculty Mentor: Matt Queen
 Major: Biology, Chemistry
 See page 8: Hanson, Avery

Hultgren, Kaari

Presentation Title: Analysis of BH3I-1 derivatives inhibition of *c. rugosa* and *c. parapsilosis*
 Faculty Mentor: Kurt Toenjes
 Major: Biology
 Project Narrative: Analysis of *C. rugosa* and *C. parapsilosis*, grown in hyphal-inducing (starvation) media, treated with BH3I and BH3I derivatives, where hyphal inhibition is observed. *Candida* species are a major class of fungal pathogens and filamentous growth is important for the species virulence.

Iverson, Aleighann

Presentation Title: Campus Drinking
 Faculty Mentor: Jennifer Scroggins
 Major: Criminal Justice
 Project Narrative: Results from a survey of MSUB students concerning their drinking habits.

Johnson, Rochelle

Presentation Title: BH3i-1 derivatives inhibit the filamentous growth of the CEA10 strain of *Aspergillus fumigatus*
 Faculty Mentor: Kurt Toenjes
 Major: Biology - Medical Lab Science
 Project Narrative: As the number of immunocompromised patients continues to rise, there has been an increase in associated opportunistic fungal infections. Treatment for *Aspergillus fumigatus* is surprising limited with being associated with invasive pulmonary aspergillosis, accounting for over 60% of cases. *Aspergillus* grows as a filamentous mold with true hyphae originating from the germination of asexual conidia. We tested BH3I-1 and derivatives against *Aspergillus fumigatus* strain CEA10 in YPD media. We are currently employing a micro-plate reader to obtain quantitative levels of inhibition with several different levels of concentration. Molecule 54 at the 300 QM concentration showed similar inhibition to that of BH3I-1 at the 300 QM concentration.

Jones, Karli

Presentation Title: Students' Perception on Various Religious Organizations
 Faculty Mentor: Jennifer Scroggins
 Major: Criminal Justice
 Project Narrative: Presents student survey data that has been coded into negative and positive perceptions concerning religious organizations.

Kautz, Michelle

Presentation Title: Barriers to Receiving Adequate Mental Health Care: A Secondary Analysis
 Faculty Mentor: Jennifer Scroggins
 Major: Sociology
 Project Narrative: A secondary analysis of socioeconomic barriers to receiving mental health care in the United States.

10 Kennedy, Casey

Presentation Title: LIBS-Enhanced Flame Emission Spectroscopy

Faculty Mentor: Matt Queen, Stuart Snyder

Major: Chemistry

Project Narrative: Laser induced breakdown spectroscopy (LIBS) was investigated as a method to enhance the detection limit of flame emission spectroscopy.

Kenney, Leonard

Presentation Title: Studies in Cell Signaling

Faculty Mentor: Kurt Toenjes

Major: Biology

Project Narrative: *C. albicans* is the most common and arguably the most important causative agent of human fungal infections. During infection, it is essential that *C. albicans* switch between different morphological states including transitions between budded or yeast-like cells and hyphal forms. Our research seeks to explore the signal transduction cascades that control the different morphological states. We have carried out literature searches to evaluate the support for the Sudberry model of cell signaling cascade that governs morphogenesis and tested different mutant strains, media and temperature for their impact on the signaling cascade and morphogenesis.

Kwon, Serin

Presentation Title: Two Russian Composers

Faculty Mentor: Dorothea Cromley

Major: Music - Performance

Project Narrative: Comparison of two Russian composers, one Romantic and one contemporary, with narration, slides and music.

Laszloffy, Josiah

Presentation Title: Oil Seed Press Optimization

Faculty Mentor: Andrew Sullivan

Major: Process Plant Technology

See page 8: *Henrichs, Chris*

Lewis, Shanna

Presentation Title: Complications in Field Research: Database Integrity

Faculty Mentor: Susan Gilbertz

Major: Environmental Studies

Project Narrative: Eastern Montana is impacted by oil and gas development; among many concerns, water supplies and water quality are of key importance. Our research team sought to test registered water-wells in this region that were in close proximity to disposal injection wells and experienced discrepancies between the databases and the realities of people's lives and properties. This research paper examines our background procedures and our in-field activities with attention to the scientific challenges of informational databases that are seldom ground-truthed.



Lombard, Darryn

Presentation Title: Impossible

Faculty Mentor: Dorothea Cromley

Major: Music – Business

Project Narrative: An accordence of songs between Beethoven and the presenter. Includes the performance of an original composition using a theme from Beethoven's "Moonlight Sonata" as well as the deductive reasoning behind the production of the presenter's piece "Impossible."

Lovell, MyLinda

Presentation Title: BH3i-1 derivatives inhibit hyphal growth of AF293 strain of *Asperillus fumigatus*

Faculty Mentor: Kurt Toenjes

Major: Biology – Medical Lab Science

Project Narrative: The information from this study will be used to investigate the most efficient, non-toxic method of suppressing fungal infections in immunocompromised patients. The small molecules derived from BH3I-1 are being used to test the efficacy of inhibition, which allows us to compare the effects of multiple chemical changes on hyphal suppression.

McDowell, Drew

Presentation Title: What's Poppin', Chopin?

Faculty Mentor: Dorothea Cromley

Major: Music – Business

Project Narrative: A vocal and guitar performance that takes a musical theme from Chopin's Scherzo No. 2 opus 31 and transforms it into a modern "pop" composition.

McRae, Catherine

Presentation Title: Ganesha

Faculty Mentor: Lisa Kemmerer

Major: Communication

Project Narrative: Visual representation of one of the Indian Gods, "Ganesha," and an accompanying poster explaining the symbolism and importance of this God in the Indian culture.

Metangmo, Baudry

Presentation Title: Rational Approximation of Multivariate Functions Using Continued Fractions

Faculty Mentor: Saroj Aryal

Major: Mathematics

Project Narrative: Finding the most accurate algorithm to express a multivariate function as a continued fraction stands as an important issue today. There are several algorithms available for expressing functions in two variables as continued fractions, but their accuracy largely depends on various factors such as domain. In this work, we study one of those algorithms, both analytically and numerically with an attempt to study the errors in the approximants of the continued fraction expansions of some two-variable functions. We further explore convergence properties of the approximants.

Mogan, Lacey

Presentation Title: Reducing Food Insecurity in Yellowstone County

Faculty Mentor: Virginia Mermel

Major: Human Services

See page 6: *Eagle Tail, Desja*



12 Moran-Gonzalez, Krischel

Presentation Title: Methods Used by Youth Counselors

Faculty Mentor: Jennifer Scroggins

Major: Criminal Justice

Project Narrative: Focusing on the methods that youth counselors use to address youth recidivism in the Billings community.

Moran-Gonzalez, Krischel

Presentation Title: Policy on Women's Reproductive Rights

Faculty Mentor: Jennifer Scroggins

Major: Criminal Justice

Project Narrative: Women's reproductive rights policies as viewed from a service learning project.

Mullins, Elizabeth

Presentation Title: Identification of potential targets of the Grr1p SCF ubiquitin ligase pathway in fungi

Faculty Mentor: David Butler

Major: Biology

Project Narrative: Investigation of the mechanism through which Grr1p regulates morphogenesis utilizing *Saccharomyces cerevisiae* as a model system to elucidate potential Grr1p-SCF dependent protein targets. The successful identification of these targets will be significant for developing a working model of the proteins involved in the yeast to filamentous growth transitions that are important for virulence. This will help to identify specific proteins in the disease progression pathway with the potential for broad-spectrum anti-fungal therapy development.

Olson, James

Presentation Title: Sugar Extraction from Sugar Beets

Faculty Mentor: Andrew Sullivan

Major: Process Plant Technology

Project Narrative: Research develops an optimum procedure and process for the hobby farmer or naturalist to produce organic sugar from sugar beets, a crop that is well-suited for the Montana climate. Key parameters were explored to yield an optimum process including beet slice thickness, water-to-beet ration, extraction time, and crystallization protocol.

Owen, Mary

Presentation Title: Evaluation of Health behaviors and Fitness Levels of Children Enrolled in the Active 6 Program at the Billings YMCA

Faculty Mentor: Kathe Gabel

Major: Health & Human Performance - Teaching

Project Narrative: Examination of the efficacy of the Active 6 program at the YMCA, which schedules various types of physical activity, has conversations on healthy lifestyle habits, and provides healthy snack options for various sixth-graders.



Parker, Brian

Presentation Title: Use vs. Success

Faculty Mentor: Jennifer Scroggins

Major: Criminal Justice

Project Narrative: Examination of the relationship of drug use and drinking with collegiate success.

Perez, Blanca

Presentation Title: Chemical Characterization of Pyridine-2, 6-bis (thiocarboxylic acid) and Its First Row Transition Metal Complexes

Faculty Mentor: Matt Queen

Major: Biology

Project Narrative: Various analytical equipment and techniques such as ultraviolet-visible spectroscopy (UV-Vis), infrared spectroscopy (IR), and nuclear magnetic resonance spectroscopy (NMR) and Computational chemistry were used to chemically characterize Pyridine-2, 6-bis (thiocarboxylic acid) (PDTC) free ligand and Fe(III), Co(II), and Ni(II) PDTC metal complexes in order to understand the dechlorination reactivity of PDTC metal complexes in *Pseudomonas Stutzeri* strain KC bacteria.

Pickering, Austin

Presentation Title: Sugar Extraction from Sugar Beets

Faculty Mentor: Andrew Sullivan

Major: Process Plant Technology

See page 12: Olson, James

Ross, Robert

Presentation Title: Bio-oil from Biomass Pyrolysis

Faculty Mentor: Andrew Sullivan

Major: Process Plant Technology

Project Narrative: Bio-oil is a renewable fuel that can be generated from waste biomass (in this case, grass clippings and camelina meal) in a pyrolysis reactor. Reactor design considerations and optimum operating parameters are explored.

Ryman, Abigail

Presentation Title: Bakken Oil Field Crime

Faculty Mentor: Jennifer Scroggins

Major: Criminal Justice

Project Narrative: Examination of research interviews with law enforcement from the Bakken oil field to find out the crimes that are happening in the area.

Santana, Vanessa

Presentation Title: The Journey to Sand Creek Massacre

Faculty Mentor: Bernard Quetchenbach

Major: English

Project Narrative: Essay of a personal journey to the Sand Creek Massacre site in Colorado. A single mother and two children, one of whom is a descendant of the Sand Creek Massacre, make a trip from Billings, MT to Eastern Colorado to pay respect to their ancestors.

14 **Sennett, Tyler**

Presentation Title: The Effects of the Militarization of Police on Community Relations

Faculty Mentor: Jennifer Scroggins

Major: Criminal Justice

Project Narrative: An investigation into whether the recent trend in law enforcement, with the help of the 1033 program, acquiring military equipment is interfering with a strong community relations by causing fear of law enforcement.

Smith, Brooke

Presentation Title: Which Characteristics are Associated with Being a Repeat Offender?

Faculty Mentor: Jennifer Scroggins

Major: Criminal Justice

Project Narrative: Understanding more clearly what types of programs help offenders as well as what type of characteristics are more common with repeat offenders.

Steinback, Jacob

Presentation Title: The Soldier and the Video Game

Faculty Mentor: Jennifer Scroggins

Major: Criminal Justice

Project Narrative: Discovering if deployed soldiers use video games as an effective way to reduce stress from the combat environment.

Tschacher, Stefani

Presentation Title: Health & Wellness in College

Faculty Mentor: Jennifer Scroggins

Major: Criminal Justice

Project Narrative: Examining answers from surveyed college students on their health and wellness while in college.

Vallie, Tiffany

Presentation Title: Sugar Extraction from Sugar Beets

Faculty Mentor: Andrew Sullivan

Major: Process Plant Technology

See page 12: Olson, James

Varhelyi, Shaylin

Presentation Title: Do Crime TV Shows Influence Knowledge of Crime?

Faculty Mentor: Jennifer Scroggins

Major: Criminal Justice

Project Narrative: Surveying MSUB students concerning the amount and frequency they watch TV shows as well as general questions regarding crime and the criminal justice system. From there, analysis will conclude how much crime TV shows influence people's knowledge of crime and the criminal justice system.



Wahrman, Kylie

Presentation Title: Feelings among College Students about Bullying in Their Adolescence
Faculty Mentor: Jennifer Scroggins
Major: Criminal Justice, Sociology
Project Narrative: Understanding how people who were bullied have overcome their experiences via survey of MSUB students.

Weinand, Sally

Presentation Title: Holocene Fire History of East Rosebud Lake, south central Montana
Faculty Mentor: Neil Suits
Major: Biology - Environmental Science
Project Narrative: Holocene sediments from East Rosebud Lake, south central Montana, were analyzed for their charcoal content in order to recreate the fire history of a low elevation (2000 m) alpine lake. Results will be compared to earlier work in the Beartooth Mountains at higher elevations and to established climate records for the region.

Wilder, Michael

Presentation Title: Pelletizing Process Moisture Control
Faculty Mentor: Andrew Sullivan
Major: Process Plant Technology
Project Narrative: Research reduces costs and improves quality by automating the water addition process to grass pellet production. A facility was designed and constructed with a pump, sprayer, and control box that fully automates moisture addition in a controlled and adjustable process. With this facility in place, the grass pelletizing process is an automated process that frees the operator for other activities.

Wilson, Christine

Presentation Title: MT Residents Survey on Drinking and Driving Laws
Faculty Mentor: Jennifer Scroggins
Major: Criminal Justice
Project Narrative: Survey of residents to gain their opinions about the drinking and driving laws in place, the DUI trends, and whether the penalties are too lenient or too harsh.

Wyss, Austin

Presentation Title: Pelletizing Process Moisture Control
Faculty Mentor: Andrew Sullivan
Major: Process Plant Technology
See entry above: Wilder, Michael

NORTHCUTT STEELE GALLERY

2015 Juried Student Show

Dustin Auerbach

Lidded Jar

Stoneware Cone 6 Oxidation

Dustin Auerbach

Untitled

Stoneware Raku Fired Cone 04

Lauren Baum

Winter Dream

Digital C-Print

Charis Craven

Man I

Oil on Canvas

Charis Craven

Woman II

Oil on Canvas

Lorraine Cronin

Tall Vase

Glazed Red Earthenware

Lorraine Cronin

Woman In The Dark Cold

Stoneware Clay, Fabric, Wood

Samantha Finch

Family

Linoblock Print

Shayla Fiscus

Wanderer Print 2

Poly Plate Litho Print, ink

Holly Grob

Beacon

Wood, Steel, Charcoal, Graphite, Polycrylic



Ruby Hahn
72 Sunsets
Digital C-Print

Kyle Hedden
My name is mattingly and I love pizza and base ball
Concrete, Wood, Chalk

Kyle Hedden
Paving a Space for the Alternative
Video

Zachary Hinkle
Emerge
Concrete, Steel, Spray Paint

Zachary Hinkle
Untitled
Screenprint

Breanna Jarrett
Untitled
Archival Pigment Print

Breanna Jarrett
Watch What You Eat
Video

Bonny Beth Luhman
Is It Worth It?
Watercolor

Bonny Beth Luhman
Seeds of Life
Video

Robbie Mann
Hands Up
Acrylic on Canvas

Robbie Mann
Two Men
Linocut

Amy Mason
The Door Way
Digital C-Print

Amy Mason

Stove
Digital C-Print

Joel Miller

Into the Frying Pan
Acrylic

Melissa Morford

Disguised
Digital Collage

Melissa Morford

Phony
Digital Collage

Marshall Pentecost

Death Comes For All
Ink and Paper

Susan Stone

Twins
Assemblage of Wood, Metal, and Found Objects

Anastasia Swarhout

We are Immortalized
Stoneware

Anastasia Swarhout

Once. Just Once.
Video, photography, choreography, poetry

Patrick Williams

Twist and Shout II (Self-Portrait)
Archival Ink Print

Dylan Woods

I don't want for us to take pills, take pills, take pills...
Styrofoam Head, Pain Relief Pills



Special Thanks & Appreciation

Chancellor Mark Nook

Honors Student Volunteers

Barbara House

Patrick Williams

Carmen Price

Heath Schell

Annette Barber, Nikki Olson, and everyone else in IT
who helped with printing posters

Sponsored by

Montana IDeA Networks of Biomedical Research Excellence (INBRE) / NIGMS
division of the National Institutes of Health

University Honors Program

Grants & Sponsored Programs



MONTANA
STATE UNIVERSITY
BILLINGS