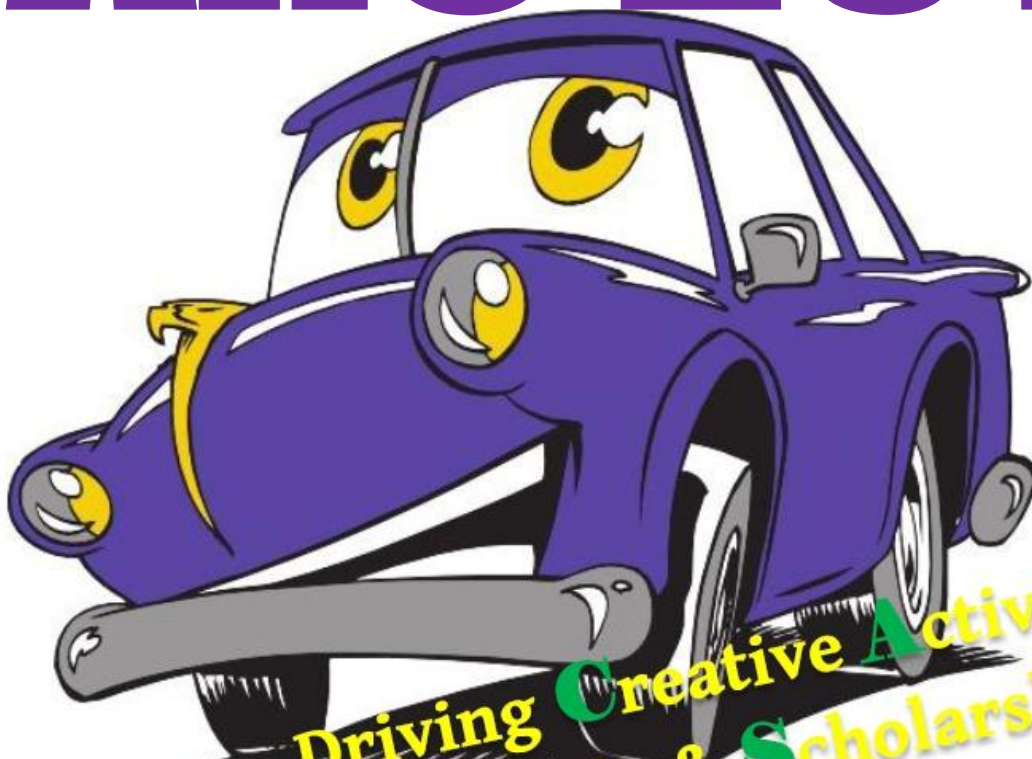

CARS 2012



Driving Creative Activity,
Research, & Scholarship
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Nazareth College * Golisano Academic Center

April 20, 2012 12pm to 2pm

<http://www.naz.edu/teaching-excellence/CARS-2012>

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INTRODUCTION

April 20, 2012 marks the first CARS Celebration. The acronym CARS (which stands for Creative Activity, Research, and Scholarship) emerged from faculty discussions about ways to celebrate, foster, and support undergraduate research. For many the term “undergraduate research” was not sufficiently inclusive to fully capture the range of significant student achievement and work at Nazareth. Hence the acronym was born.

The CARS Celebration Planning Committee has worked to design an event that can showcase the achievements of our students throughout the college. Students were invited to participate in a variety of formats, including performances, posters, artwork displays, and paper presentations. The listing that follows is a diverse and tantalizing assortment of offerings that are hard to choose from among. I hope you enjoy them! And thanks to the Planning Committee for all their good efforts.

Yours,



Sara Varhus

Vice President for Academic Affairs
Nazareth College

CARS 2012 Planning Committee:

Diane Enerson (Committee Chair, Psychology, Academic Affairs)
Cathy Doyle (Library)
Grant Gutheil (Psychology)
Rich Hartmann (Chemistry)
Kim McGann (Sociology and Anthropology)
Debra Mathewson (Administrative Assistant)
Marjorie Roth (Music, Honors Program)
Meng Simone Si (Graduate Assistant)

SCHEDULE AT A GLANCE

Format	Location	Time
Performances	Linehan Chapel (1 st floor of GAC)	12pm to 2pm
Paper Presentations	GAC 375	12pm to 2pm
	GAC 333	1:15pm to 2pm
Panel Discussions	GAC 325	12pm to 2pm
	GAC 333	12:05pm to 1:15pm
Artwork Display	GAC outside Linehan Chapel	12pm to 2pm
Posters	GAC outside Linehan Chapel & GAC 3 rd floor	12pm to 2pm

SCHEDULE

Performances

Location	Time	Name(s)	Title
Linehan Chapel (1 st floor of GAC)	12pm to 2pm	Various *detailed schedule will be posted outside Linehan Chapel	

Paper Presentations

Location	Time	Name(s)	Title
GAC 375	12:15pm to 12:35pm	Shelly Knight	<i>The Language of Genocide: The Impact Communication had on Holocaust Victims</i>
	12:40pm to 12:55pm	Kathryn DePerrior, Samantha Smith, & Abby Wells	<i>"Small is Beautiful": Real Life Examples</i>
	1pm to 1:15pm	Alexandra Ntarelli	<i>The Alienation of Paganism</i>
	1:40pm to 1:55pm	Hayley Yettru, Alyson Mullie, Cari Dickinson, Erin Ellis, Sabrina Wing, Jordana Graham, & Erica Colon	<i>A Qualitative Assessment of Stakeholders' Satisfaction with Lifeprep@Naz: A Review of Strengths and Recommendations for the Future.</i>
GAC 333	1:15pm to 2:00pm	Patrick Gear, Miranda Spalding, Jeremy Mancus, & Kate Mercer	<i>Why Are We: Identity and Perception in Irish Literature</i>

Panel Discussions

Location	Time	Name(s)	Title
GAC 325	12pm to 12:30pm	Houssem Ben Lazreg & Rabia Zouaghi	<i>The Alliance of Faiths</i>
	12:30pm to 1pm	Collin Hayes, Sara Wetzel, Devin Kelly, Khadija Aweis, Teadie Becker, Braa Elkidir, James Jaramillo, & Cynthia Zepeda	<i>International, Interdisciplinary, and Interactive Learning: A Community Youth Development Approach</i>
	1pm to 1:30pm	Erin Smith, Corinne Shaffer, & Evan Mecarello	<i>Music Internships in Berlin</i>
	1:30pm to 2pm	Whitney Atwood, Morgan Lloyd, Zack Martin, & Liz Myers	<i>American Studies in Hungary, William James on Truth and Experience, Privacy in Modern America, Lincoln, and Slavery in America</i>
GAC 333	12:05pm to 12:40pm	Noelle McElrath-Hart, Matt Gilligan, Elise Miklich, Katie Karr, & Reggie Caradine	<i>Gender Roles in Print Advertisements</i>
	12:40pm to 1:15pm	Kathleen Mercer, Debra Wyspianski, Kathryn Ball, & Anna Doane	<i>"A Bird in the Hand is Worth Two in the Bush"</i>

Artwork Display

Location	Time	Name(s)	Title
GAC outside Linehan Chapel	12pm to 2pm	Sean Lounsberry	<i>Personal Limitations</i>

Posters

Location	Time	Name(s)	Title
GAC outside Linehan Chapel	12pm to 2pm	Various	
GAC 3 rd floor	12pm to 2pm	Various	

ABSTRACTS

Performances

1. Three Songs Josh Forgét (b. 1990) I. Alone II. Gods Julia Natoli, soprano Josh Forgét, piano

Josh Forgét & Julia Natoli

Faculty Sponsor: Dr. Beverly Smoker

Abstract:

Julia and I have prepared two songs from my song cycle *Three Songs* for soprano and piano. The cycle is unified by texts that reflect upon the night and/or nature while expressing deeply emotional sentiments. My purpose in writing these songs was to gain experience in writing for voice and to explore some of my favorite poetry. The first song utilizes a poem by James Joyce in which the poet describes a nighttime scene and relates it to his tumultuous romance. The music incorporates a number of Romantic allusions (including the very obvious Tristan und Isolde quotation) and is characterized by a vocal line that is independent of the gigantic, sighing figures in the accompaniment. The second song uses a text by Walt Whitman from *Leaves of Grass*. "*Gods*" is a brooding, bold expression of Whitman's lust for and worship of nature and the universe. The music follows the trajectory of the poem, becoming more discordant and grandiose as the text becomes more ardent and macrocosmic. Together, the two songs are a compatible pairing.

Reason for Participating:

I have been working on these songs with my composition teacher and my vocalist and would like them to be performed in public. The performance of an original composition is a collaborative effort that involves many aspects of the musical process and provides a unique experience for both the audience and the performer.

2. American College Theater Festival Irene Ryan Scholarship Auditions Finalists, Region 2, 2012

Dimitar Kominovski, Breanna Melino, Gloria Gambino, & Jennifer Menter

Faculty Sponsor: Dr. Matt Ames

Abstract:

In two pairs, the students will perform scenes and songs they performed as finalists in ACTF competition this past year. They worked on their pieces for many weeks after being nominated by respondents who attended individual productions here on campus. Dimitar was nominated for

his work in Grimm, Breanna for her work in Dames at Sea. Gloria and Jennifer were selected by the nominees themselves to serve as partners. The scenes and songs were performed in January at Indiana University of Pennsylvania as part of a regional festival. Out of an initial 240 pairs, our students were selected for the final round of 16, or the top 7% of the region.

Reason for Participating:

We feel the work of these students is indicative of excellence in scholarship in their field.

3. *Healing Through Music*

Arissa Kyler

Faculty Sponsor: Prof. Kristen Shiner-McGuire

Abstract:

The activity my percussion class conducted was formed through instinct when we were learning a new rhythm on the conga drums. To us, it sounded like the rhythm that accompanies the song, ""The Lion Sleeps Tonight"" from The Lion King movie. Professor Shiner-McGuire likes to have students teach and lead parts of the class so that we have leadership experience, and I was the leader of the drum circle. We learned the rhythm, and then decided to experiment with adding the song to the rhythm before Professor Shiner-McGuire returned to the room. We developed different harmonies, experimented with dynamics, and had half of the group sing the melody while the other half sang another section of the song. Singing enabled us to lock into the rhythm, a technique we learned as the use of vocables. The song brought the rhythm to life, letting those involved experience self-accomplishment, happiness, stress relief, control, and collaboration as a team. We thought that this same kind of activity could be used in a music therapy group session to promote these attributes with clients.

Reason for Participating:

We want to participate so we can represent the Music Department with our creative, unique, and fun rendition of ""The Lion Sleeps Tonight"" in a conga drum circle. I think we have a lot to offer the festival, and it also gives a look into what we do in group music therapy sessions.

4. *Pieces for the Soprano Voice*

Sarah Miller

Faculty Sponsor: Dr. Beverly Smoker

Abstract:

In my performance ""Pieces for the Soprano Voice"", I would showcase different selections from different points of my musical progress. Each piece highlights different utilizations and unique

features of the soprano voice. I worked on each piece with my private studio professor, Dr. Soo Yeon Kim. Her extensive training guided me to the level of musicianship I have reached thus far. I chose to pursue this career out of my love for music as well as my interest in the meanings and messages hidden within every musical composition. I also enjoy being a medium through which the composer's message can be delivered to the public.

Reason for Participating:

This performance would be an excellent opportunity to display what I have learned and how I have grown musically during the past two years. This performance would also serve as a good representation of different pieces of music literature.

5. *Expressions of the Soprano Voice*

Reneé Ruscitto

Faculty Sponsor: Dr. Beverly Smoker

Abstract:

I have studied several pieces of vocal repertoire this semester, and would like to perform a few of them at this event. I translated the pieces to understand what I was singing about, rehearsed the pieces with my private vocal professor Dr. Soo Yeon Kim, and worked to polish them for my sophomore recital that I gave in early March. I did this because it is an important part of my degree program to learn pieces of music and perform them.

Reason for Participating:

I feel this opportunity will better me as a musician and help to spread my love for music to others.

6. *Song-Writing: A Demonstration of the Creative Process*

Katy Wright

Faculty Sponsor: Dr. Zbigniew Granat

Abstract:

The creative process is a central, indispensable component of music performance. Composers make decisions based on varying musical factors depending on what the context of the piece may require. The present proposal details a plan for a musical performance consisting of two original compositions in various states of completion. The first song is a finished pop tune written for female voice. I chose to write the song with the intent of having someone other than myself sing it, which posed a number of challenges in my decision making process. The second song, however, presents an entirely different set of challenges, as it is still in a developmental stage and

is not yet complete. Many aspects such as form, text, harmony, and texture remain unclear. My presentation will include a handout containing the lyrics, brief musical examples, and diagrams indicating song structure for both compositions. The first song will feature a youtube video of my band performing the original composition ""Jack of All Trades"". The second song will feature a live performance of the completed portion by me and a demonstration of the possible avenues that could be taken.

Reason for Participating:

I was approached by Dr. Granat to participate in this event and I would love the opportunity to showcase an element about music that is important to me. I am honored to have been asked and happy to educate people in the song-writing process.

7. "A Little While", Margaret Zapetis (b. 1990) - Allison André, soprano, Elizabeth Zapetis, flute, Dr. Beverly Smoker, Piano.

Margaret Zapetis

Faculty Sponsor: Dr. Beverly Smoker

Abstract:

"A Little While" is the second in a set of songs based on the poetry of Sara Teasdale, written for harp (or piano - Dr. Beverly Smoker), flute (Elizabeth Zapetis) and voice (Allison André). I composed this set at the urging of Dr. Carl Wiens, to expand my portfolio in preparation for a graduate program in composition. The set, and its performance, is dedicated to his memory.

Reason for Participating:

I have worked hard to compose this piece, and my performers have worked hard to bring it to life. I would like to bring our creative achievement to a wider audience.

* Musica Arcana, Gregorian chant "open sing" will conclude the performances. Audience participation is welcome for this piece.

Paper Presentations

1. "Small is Beautiful": Real Life Examples

Kathryn DePerrior, Samantha Smith, & Abby Wells

Faculty Sponsor: Dr. Suhail Islam

Abstract:

1.) Found locally supported companies that help their community. 2.) Read "Small is Beautiful" by E.F. Schumacher and followed his examples. 3.) We are interested in environment sustainability.

Reason for Participating:

Class requirement for Rhetoric I

2. Why Are We: Identity and Perception in Irish Literature

Patrick Gear, Miranda Spalding, Jeremy Mancus, & Kate Mercer

Faculty Sponsor: Dr. Ed Wiltse

Abstract:

Each of the four of us wrote a thesis on a work of Irish literature; by chance, all four of our topics related to themes of identity, perception, and expression. We decided to run with this commonality and unify our papers more closely in order to flesh out our theses, improve our arguments, and tailor them for presentation. Hopefully, through the CARS program, we can gain exposure for our work while simultaneously receiving feedback to fine-tune our academic writing abilities.

Reason for Participating:

Exposure, thesis development, opportunity to present work.

3. The Language of Genocide: The Impact Communication had on Holocaust Victims

Shelly Knight

Faculty Sponsor: Dr. Suhail Islam

Abstract:

I wrote a paper for class LST312 displaying the significant role language played on Holocaust victims' ability to survive. My thesis focuses on three published testimonies by Primo Levi, an Italian Jewish survivor, and incorporates theories from linguistic anthropology to ultimately prove the impact language has on human beings.

Reason for Participating:

I would like to present my essay as part of extra credit for my Linguistic Anthropology course (ANT388) taught by Professor Islam and out of personal interest in the subject I have researched.

4. *The Alienation of Paganism*

Alexandra Natarelli

Faculty Sponsor: Dr. Jerome Denno

Abstract:

In a brief paper, I will explore the disparity between Christianity and Paganism in Beowulf and the parallels of the Germanic heroic code/paganism and Christianity to the notion of a good warrior and a good king, respectively.

Reason for Participating:

I have yet to formally present a paper and would like to get my foot in the door in terms of actively participating in academia and panel discussions.

5. *A Qualitative Assessment of Stakeholders' Satisfaction with Lifeprep@Naz: A Review of Strengths and Recommendations for the Future.*

Hayley Yettru, Alyson Mullie, Cari Dickinson, Erin Ellis, Sabrina Wing, Jordana Graham, & Erica Colon

Faculty Sponsor: Dr. Leanne Charlesworth & Dr. Pamela Viggiani

Abstract:

As a group, our eight person qualitative research class conducted research on the Lifeprep@Naz program through the facilitation of four different focus groups. The groups consisted of parent participants, Nazareth student mentor participants, faculty participants and LifePrep student participants. We arranged agreed upon times for all groups to meet on the Nazareth Campus. The groups took place on two different days. Two to three qualitative research students were present at each group acting as facilitators, co-facilitators, or scribes. After the completion of the focus groups, we coded the transcripts we recorded to obtain common themes present within our data.

The coding was performed by small group and as a class. Additionally, prior to our work Lifeprep staff administered questionnaire to all four groups. The class has analyzed the questionnaires. This analysis offers further data complementing the data collected from the focus groups. The point of this research is to assess LifePrep@Naz, a new college transition program for individuals with disabilities on campus, providing feedback meant to improve the program for its participants.

Reason for Participating:

We have agreed to present our findings on this unique research area so that we can further educate the Nazareth Community on the topic of Post-secondary Education and the LifePrep@Naz program, and the steps that we can all take to better the program in the future.

Panel Discussions

1. American Studies in Hungary, William James on Truth and Experience, Privacy in Modern America, & Emerson, Lincoln and Slavery in America

Whitney Atwood, Morgan Lloyd , Zack Martin , & Liz Myers

Faculty Sponsor: Dr. Scott Campbell

Abstract:

All of the students wrote papers within the field of American Studies.

Reason for Participating:

To present the results of our research work to Nazareth College and highlight the experience of having given papers at an international conference on American Studies in Veszprém, Hungary.

2. International, Interdisciplinary, and Interactive Learning: A Community Youth Development Approach

Collin Hayes, Sara Wetzel, Devin Kelly, Khadija Aweis, Teadie Becker, Braa Elkdir, James Jaramillo, & Cynthia Zepeda

Faculty Sponsor: Dr. Marie Watkins

Abstract:

The project that we would like to showcase is our ability to make the connection between the premises, principles, and practices of Community Youth Development and the Nazareth College student learning outcomes with a special focus upon "the whole person" and the experiential learning requirements. Our presentation will focus upon our international, interdisciplinary, and interactive learning as we partner with each other across the disciplines, the neighborhoods, and the Atlantic Ocean. We will highlight how experiential learning offers a vehicle to bridge our interpersonal and intrapersonal understandings as we partner with each other as Nazareth College students, with our community partners who are youth who live in urban Rochester, and with our Leeds Metropolitan University, Leeds, England partners.

Reason for Participating:

Class requirement for CYD 202: Youth Empowerment through Service: Youth Activism

3. Alliance of Faiths

Houssem Ben Lazreg & Rabia Zouagh

Faculty Sponsor: Dr Muhammad Shafiq

Abstract:

In this panel discussion, we will talk about the manifestations and causes of religious intolerance notably in the wake of 9/11 and how a constructive interfaith dialogue is important in promoting peace between followers of the various religions and cultures in order to create understanding and make use of their synergy for the progress and prosperity of the whole humanity.

Reason for Participating:

We are participating in this event to emphasize how much Interfaith dialogue is important in promoting cooperation and constructive and positive interaction among members of different religions in order to increase understanding and acceptance of others, rather than criticizing others' religious belief.

4. Gender Roles in Print Advertisements

Noelle McElrath-Hart, Matt Gilligan, Elise Miklich, Katie Karr, & Reggie Caradine

Faculty Sponsor: Dr. Lisa Perks

Abstract:

We are writing papers that explore the symbolism in print advertisements' visual rhetoric. Each of us is writing a paper that involves gender representation. We would like to discuss the findings of our paper in a panel presentation and display our advertisements to the audience. We hope this discussion will encourage everyone to be critical of the ways in which advertisements subtly persuade.

Reason for Participating:

We look forward to presenting our papers and discussing the important issues of gender representation with members of the Nazareth community.

5. "A Bird in the Hand is Worth Two in the Bush"

Kathleen Mercer, Debra Wyspianski, Kathryn Ball, & Anna Doane

Faculty Sponsor: Dr. Monica Weis

Abstract:

Two or three students will read their short creative non-fiction pieces based on a class field trip to Mendon Ponds to feed the chickadees--an extension of our American Nature Writers class. Two other students will describe the experience: trepidation and delight, AND what they learned.

Reason for Participating:

Class requirement for American Nature Writers

6. *Music Internships in Berlin*

Erin Smith, Corinne Shaffer, & Evan Mecarello

Faculty Sponsor: Dr. Marjorie Roth

Abstract:

We would like to showcase our experiences last semester doing music career-related internships as part of Nazareth's Berlin Study abroad program. Each of us had a prestigious internship that was related directly to our musical training and future career goals. One panel member, who will pursue graduate study in musicology next year, interned in a world-class music-historical archive. Another panel member, who is pursuing a career as a conductor, interned with a Berlin-based chamber orchestra and opera conductor. Another panel member interned by coaching young musicians at a Hochschule for the performing arts. Each of the panel members gained invaluable practical experience from his or her internship, in addition to experience reading and speaking German.

Reason for Participating:

Required for the Berlin internship program

Artwork Display

1. Personal Limitations

Sean Lounsberry

Faculty Sponsor: Prof. Kathleen Calderwood

Abstract:

I would like to showcase two paintings that reflect the deep-rooted questions within myself. One painting represents my belief that language holds me back from expressing the true vibrancy of my ideas and imagination, while the other shows the inner beauty that we, as humans, must strive to discover. These paintings display my search for inner beauty, not just within myself, but within everything and everyone that I come across. My artistic process is often intuitive; I do not plan the entire piece beforehand, I have a personal conversation with the piece that continuously evolves until the work comes to fruition. I cannot explain why I do it, it is something that simply comes to me, speaks to me, and begs to be viewed by others. I am merely the vessel that transmits the message.

Reason for Participating:

I am participating for two reasons: first, I relish any opportunity to display my artwork; second, I love to display my thoughts so that others may understand me and my personal quest as an artist.

Posters

1. Writing for Peace and Justice in French

French Beginner class - FRN102

Faculty Sponsor: Dr. Mireille Le Breton

Abstract:

Students in FRN102 volunteered to create a class poster to be able to exhibit the peace poems they wrote for class. They wish to be part of the CARS Celebration day. They will get "extra credit" for doing so. The volunteers exhibiting the class poster will also read their poems to visitors and explain the class project that is part of the 4th Annual Poetry Competition in French at Nazareth College.

Reason for Participating:

Students are motivated to be part of the CARS celebration day and will receive extra credit for their creativity.

2. Dissolved Oxygen and pH in Dr. Lammela's Fish Tank

Stephanie Amico & Alyssa Becker

Faculty Sponsor: Dr. Robert Arcus

Abstract:

Each week we selected 3 samples from various locations in the fish tank. From these samples collected, we then tested the pH of each. We tested dissolved oxygen from these 3 locations to compare them to the pH levels. Our reason for doing this was to determine if pH levels and dissolved oxygen content affected aquarium life within the tank.

Reason for Participating:

Class requirement for Chem 226L

3. Fun with Bubbles

Melanie Antos & Julia Mondo

Faculty Sponsor: Dr. Kelly Hutchinson-Anderson

Abstract:

The purpose of this experiment was to see if adding different substances to liquid dish soap would cause bubbles to last longer or be bigger compared to store bought bubbles. We used corn syrup, lemon juice, sugar, glycerin each combined with soap and water, and soap and water without an additive. Also, for each other these substances we tested them with a smaller bubble wand and a bigger bubble wand to see if there was a difference in the size of the bubble and how long the bubble lasted before it popped. Our question for this experiment was: How can we make bubbles last longer without popping? Do additives help it last longer? Does of the size of the wand influence the bubble?

Reason for Participating:

Class requirement for SCI.Q-101

4. The Development of the Concept of Family in Preschool Children

Annamarie Bailey

Faculty Sponsor: Dr. Grant Gutheil

Abstract:

This study is a replication of the 1982 study, "The development of the child's concept of the family", by Gilby and Pederson. Using cardboard dolls, I asked the children to make a family of dolls in order to see who they would include in a typical family. Then, I used the dolls to create a series of possible families and asked the child if each could be considered a family. This provides insight into the child's criteria for who is considered a part of the family (such as coresidency and biological relatedness). This was done in order to understand who a child considers to be part of a typical family, as well as the criteria to be included in a family. These same questions were asked of college students in a questionnaire format. This was done in order to provide a developmental comparison against the preschoolers. The methodology of the original study performed by Gilby was used in order to look for a change in family inclusion criteria from the 1980s until now.

Reason for Participating:

Class requirement for Independent Study-- Child's Concept of Family

5. Investigating tin(II) fluoride as a Lewis acid catalyst for biodiesel production

Emily Benton

Faculty Sponsor: Dr. Richard Hartmann

Abstract:

Due to the increasing scarcity and expense of petroleum, biodiesel has recently become the fuel of interest. One common and inexpensive source of biodiesel is waste cooking oil. Because this oil often contains high levels of free fatty acids (FFA), it requires a pre-treatment in the form of acid catalyzed esterification using methanol and an inexpensive Brønsted acid catalyst, such as sulfuric acid. However, sulfuric acid is very corrosive and can cause the sulfur content of the final product to exceed the 7 ppm, a limit established by the EPA. Our investigation has focused on the use of the Lewis acid tin(II) halide in order to avoid the adversities associated with sulfuric acid. Our results show that these Lewis acids effectively catalyze the methylation of oleic acid. Kinetic studies were performed using ^1H NMR by converting the integrals at 3.7 ppm (methyl ester) and 2.3 ppm (α -carbonyl) into percent methyl ester formation. From the data collected thus far, the following trend in increasing activation energy has been obtained: $\text{SnI}_2 < \text{SnBr}_2 < \text{SnCl}_2 < \text{SnF}_2$.

Reason for Participating:

Class requirement for Independent Research

6. *Nitrification Activity in a Typical Freshwater Aquarium*

Emily Benton & Mohammad Hubeishy

Faculty Sponsor: Dr. William Lammela

Abstract:

High nitrate and nitrite levels in a freshwater fish tank can be lethal to the fish and other creatures. In a "healthy" fish tank, the bacteria living in the tank undergo what is known as nitrification to break down harmful nitrogen species. This experiment will quantitatively test the amounts of nitrites and nitrates in a typical freshwater aquarium to determine if it is too toxic for the fish to live in. Techniques used for this analysis include a metal-ion electrode, spectroscopy and GC-MS.

Reason for Participating:

Class requirement for Analytical Chemistry

7. *Coloring Outside the Lines: Finding 4-Chromatic Unit Distance Graphs*

Eileen Bruns, Emily Bonomo, & Caitlin VerSchneider

Faculty Sponsor: Dr. Matt Koetz

Abstract:

In Spring 2011 we participated in a undergraduate mathematics research course. Throughout our experience, we explored the Hadwiger-Nelson Problem, which is to find the chromatic number of the plane, by describing a family of 4-chromatic unit distance graphs. We then demonstrated a method for finding graphs with certain chromatic properties.

Reason for Participating:

We would like to illustrate our research experience in mathematics.

8. Got PCK?

Eileen Bruns & Caitlin VerSchneider

Faculty Sponsor: Dr. Nicole Juersivich

Abstract:

This semester we are currently participating in a mathematics education research course. During this course we got to create our own research study. We decided to investigate the mathematical knowledge of pre-service teachers. More specifically, we wanted to see if future teachers have enough mathematical knowledge to teach future students with inquiry based methods. Many people believe that deep understanding of mathematical material is required (knowing the why as opposed to simply knowing the how) in order to teach for deeper understanding.

Reason for Participating:

We would like to discuss our findings with the Nazareth community. Furthermore, we would like to share our experience with others who may not know why education research is important.

9. Facebook is helping college students get through college!

Amanda Brylinksi, Christine Ector, Corinne Heichemer, Barbara Henderson, Amelia O'Learly, Laura Pelcher, Amandao Romano, Tesla Sheffield, Olivia Smith , & Meleana Spera

Faculty Sponsor: Dr. Kimberly McGann & Dr. Rachel Bailey-Jones

Abstract:

There has been much hand-wringing and bemoaning about the negative effects that Facebook is having on the quality of social life. Chief among these concerns is the idea that using Facebook is a meaningless distraction from one's "real life" obligations. One place this gets particular emphasis is college's students use of Facebook. Opinion columns and lunch time conversations are full of claims that Facebook is either a cause or symptom (or both!) of the disengagement and lower achievement when used by college students. However, to date, almost no data has been

gathered systematically to examine whether there is a link between the quality of a students' school experience and how and/or how much they use Facebook. This project is a pilot study that explore how Nazareth students use Facebook for reasons related to school.

Reason for Participating:

This project is part of a joint faculty-undergraduate research project funded by the Student Research Pilot Program. Both students and faculty volunteered their time to over the semester to the project.

10. Cellular Evolution: The Survival of the Communicational Fittest

Mikaela Butler

Faculty Sponsor: Dr. Marjorie Roth

Abstract:

I have researched cellular communications and have analyzed it in light of Social Darwinism. I argue that we are adapting, either successfully or unsuccessfully, to this new technology. Successful adaptation will prove the human race as socially fit whereas the unsuccessfully adaptation could prove socially dangerous. I have organized this paper in light of Maslow's hierarchy highlighting how successfully attainment of these needs will prove one's relative fitness. This paper was written as part of my honors requirement.

Reason for Participating:

Class requirement for Honors Thesis Writing

11. Fact or Myth: Can Frozen Shaving Cream Really Fill Up a Car?

Megan Christopher & Will Grome

Faculty Sponsor: Dr. Kelly Hutchinson-Anderson

Abstract:

Our experiment investigated an urban myth which states that a can of frozen shaving cream when thawed will expand to fill an entire car. In order to test this myth without actually using a vehicle in the process, we downsized this experiment by testing three different states of Barbasol shaving cream in a large Tupperware container. The three different states were room temperature, frozen/thawed, and completely frozen.

Reason for Participating:

Class requirement for SCI.Q-101

12. Women of the French Revolution

Caitlin Clark & Elizabeth Butler

Faculty Sponsor: Dr. Mireille Le Breton

Abstract:

We have chosen to do a poster project depicting the influence of various feminine figureheads during the French Revolution. We will focus on the two sides of the French Revolution (the monarchy and the rebels). In our research, we will use the influence of literature to highlight the influence of women and the role they played during the revolution. We have chosen this topic because we feel the women of the French Revolution had more of an impact than many currently realize. We have studied the influence of women within our French courses and want to further research and illustrate their role in French society during the Revolution.

Reason for Participating:

Class requirement for FRN 302 18th Century French Enlightenment

13. Determination of Calcium and Magnesium in Amaranth, Kale, French Green Beans, Swiss Chard, and Turnip Greens.

Alan Connor, Tyler Chatelle, Kirsten Schoenborn, Shannon Creeden, & Matthew Derrenbacher

Faculty Sponsor: Dr. William Lammela

Abstract:

Calcium and Magnesium concentrations were determined within the leaves of each plant sample through AAS determination. AAS is an abbreviation for atomic absorption spectrometry. The leaves were either obtained from Wegmans or from grown samples, which were then oven dried. The dried samples were crushed and soaked in nitric acid overnight. The extracts were obtained through vacuum filtration and diluted to 50 mL using a volumetric flask. Standards were run through the AAS for calibration and each sample was tested after, resulting in a readout in parts per million (ppm). These samples were tested for their nutritional content in correlation between nutrition and instrumentation classrooms.

Reason for Participating:

Class requirement for Instrumentation and Nutrition

14. Structural Analysis of HIV-1 Viral Entry Inhibitor Drug Candidate BMS-378806: The Role of 7-Azaindole

Cara Czechowski & Moudi Hubeishy

Faculty Sponsor: Dr. Stephen Tajc

Abstract:

1) We are researching how to find a better way to synthesize an HIV inhibitor. 2) Through a series of experiments, we are getting a better understanding of how to form the compound BMS-378806 3) Research at the undergraduate level is not an opportunity to pass up; we learn how to work in a research team as well as more about organic chemistry as we are working to benefit society with our findings.

Reason for Participating:

Class requirement for CHM300

15. The effectiveness of functional exercise interventions and cardiovascular monitoring in a patient with an acute episode of CHF and recent pacemaker implantation

Alexandra DiPonzio

Faculty Sponsor: Dr. Andrew Bartlett

Abstract:

1) I wrote a case report on an interesting patient I saw as part of my clinical education at a home health care agency. I would like to turn this report into a poster to present at this event. 2) With my supervising PT, I treated a patient who had complicated cardiovascular health issues. I collected data on our treatments, the patient's history, as well as objective outcome measures and tests before, during and after the 8 weeks that we treated him. I then took this information and wrote a case report, comparing what I did and the patient's outcomes to other research reported in the literature, in order to document it's importance and clinical relevance to physical therapy. 3) The case report was part of an in-service project for the home health agency I had my clinical experience with. Instead of doing a presentation based on available research, I decided to conduct my own, and have the experience of getting published in the American Physical Therapy Association home health section newsletter.

Reason for Participating:

Participating in this event will give me experience in presenting my research through a poster presentation. This will be helpful for me in presenting my doctoral project later in April, as well as possibly presenting at the NYS conference in the Fall.

16. Using the Fullerton Fitness Test to monitor functional progress for a home health patient following recent CVA: a case study

Greg Dixon

Faculty Sponsor: Dr. Andrew Bartlett

Abstract:

As part of a physical therapy clinical internship, I was invited to collect data of a patient to develop into a case report. Working with a post-stroke patient at the time, I decided to implement a battery of functional tests previously not administered within this population. My hope was to demonstrate the capacity of this battery of tests to demonstrate functional progress in a non-healthy patient within a clinical setting. The case report was successfully published in the home health section of the American Physical Therapy Association newsletter for the fall quarter.

Reason for Participating:

I was excited about the prospect of publishing a report and conducting research that would contribute to the profession.

17. An Investigation of How Aluminum Levels in Aquarium Water Affect pH and Subsequently the Fish in the Aquarium

Katie Ducett & Allison O'Neill

Faculty Sponsor: Mr. John Mendel

Abstract:

We analyzed the Aluminum Levels in an aquarium and compared them to pH of the different samples. To do this we used an AAS and pH meter. This is important because Aluminum is known to have a detrimental effect to humans [Alzheimer's], so the affect is most likely worse on fish, since they are much smaller.

Reason for Participating:

Class requirement for CHM 226L

18. Extracting Vitamins

Jaide Edwards, Rob Kraft, Claire Willsea, Jimmy Gaffney, & Nicki Steiner

Faculty Sponsor: Dr. Sheila Brady Root

Abstract:

Nutrition students are collaborating with Chemistry students to find out about the vitamins present in plants and how to extract them. We will be growing our own plants.

Reason for Participating:

Class requirement for SCI 132L

19. Provider Background and Depression Treatment in Veterans

Amy Eisenberg

Faculty Sponsor: Dr. Mary Ann Bush

Abstract:

Aggregate data regarding provider type and treatment bias is largely underdeveloped in the current literature. This study investigated the frequency with which providers from multiple training backgrounds are engaging in evidence based treatment in primary care of depression.

Reason for Participating:

This is an independent research project coming from my work at an internship.

20. The Organ Works of Johann Sebastian Bach

Gretchen Erlichman

Faculty Sponsor: Dr. Marjorie Roth

Abstract:

I would like to participate in the 2012 Student Creative Activity, Research and Scholarship Celebration by showcasing a poster presentation on the organ works of Johann Sebastian Bach. My research on this topic was originally done for a state-of-research paper required for my History of Western Music class. I aimed to explore Bach's organ works by researching the most prominent underlying characteristics that define them as a major stepping-stone in the development of music. I assigned a source to each of these features to create an abstract that explored the aspects that distinguish Bach's organ music from the other compositions of the time. To conclude my research, I completed a reflection in which I analyzed the ingenious insight and musical individuality that has made the organ works of Bach a crucial element in the growth of music. In order to create a poster for the 2012 Student Creative Activity, Research and Scholarship Celebration, I hope to take the most interesting and essential elements and musical

examples from the scholarship I have researched, compiling them into a poster that represents the important role that the organ works of Johann Sebastian Bach have played in the field of music history.

Reason for Participating:

I hope to participate in order to display the research that I have enjoyed doing and that I may challenge myself in continuing to explore the academic field of music.

21. Playing Your Way to College Adjustment

Monica Fangio

Faculty Sponsor: Dr. Mary Ann Bush

Abstract:

The project I did was an independent study on the effects of adult playfulness and perceived stress on college adjustment scores for incoming freshman students at Nazareth College. I sent out an electronic survey to all undergraduate freshman to collect data on their levels of perceived stress, adult playfulness, and their college adjustment scores. I did this because I wanted to add to the field of psychological research. I feel that these findings can be important to people who are looking to help college students adjust better in college.

Reason for Participating:

To present my research in a celebratory forum.

22. The Goodbye Song

Katie Ganem

Faculty Sponsor: Dr. Yuanting Zhao

Abstract:

For an assignment for a playwriting class we had to write one acts. Playwriting has been a recent passion of mine, so after finishing my first draft, I decided I wanted to try and get it performed. The play chronicles a family through past and present as they come to terms with the father's suicide. After gaining the theatre department's permission, I directed a team of four actors, and three techies and produced the show in March 2011. This January we recreated the original production, fixing parts of the script, and refining aspects of production. This summer we are planning to bring the show to the International Youth Arts Festival in London, England. The whole experience has been amazing and very valuable to us in our development as professional theatre artists.

Reason for Participating:

I want to represent the theatre department's active and hard-working student body.

23. Optimization of a Snowboarding Half-Pipe

Kerry Gannon

Faculty Sponsor: Dr. Yousuf George

Abstract:

Conducted undergraduate research in mathematics on the optimization of a snowboarding half-pipe. Made a poster of the findings which was also presented at the Undergraduate Poster Session at the Joint Mathematics Meeting in Boston, MA this past January.

Reason for Participating:

To gain experience in mathematical research.

24. How water hardness, pH, and Carbon dioxide affect fish in their environment

Sarah Getsy, Matt Gilligan, & Brittany Hange

Faculty Sponsor: Mr. John Mendel

Abstract:

For this experiment, we will test how variations in pH, water hardness, and carbon dioxide concentration may affect aquatic life. After obtaining additional research, we will use titration to discover optimal levels of all of these factors. We will use a pH meter on our titrated solution in order to obtain the optimal pH, and will use indicators when titrating water samples to discover water hardness and carbon dioxide levels. This experiment will be conducted in order to discover the best possible environment for an aquarium. It is a requirement for our chemistry lab that we choose an experiment to practice methods of research and experimentation.

Reason for Participating:

Class requirement for Analytical Chemistry Laboratory

25. The musical "Dames At Sea" Hair and Makeup design display

Joya Giambrone

Faculty Sponsor: Dr. Yuanting Zhao

Abstract:

It's a poster board with images of the hair and makeup I did for my senior comprehensive project for Nazareth College's production of ""Dames At Sea"". I brought this display with me to KCACTF this past winter and won a certificate of Merit for Excellence in Hair and Makeup Design. I did it because I'm a skilled hair and makeup artist and designer with no formal education in that field.

Reason for Participating:

So the Theatre department can be represented well by me for this presentation. I'm proud to show this display again. I'm proud of the work I do.

26. Dog Training for the Safety of the Elderly

Allison Goddard

Faculty Sponsor: Dr. Tim Bockes

Abstract:

1) I designed and implemented a intervention program to train a dog to be safe around an elderly owner. 2) I identified three behaviors (loose-leash walking, sit instead of jumping and a come-sit-stay behavior chain) that would improve the dog's behavior. I then trained the dog. 3) Dog behavior is a great concern for elderly owners because they are more susceptible to injury than younger people. Training such as the methods implemented here can help make it safer for elderly dog owners.

Reason for Participating:

Already presented the poster at the EPA conference

27. Socializing In Canandaigua

Kasstyna Harwood-Vitticore , Caitlin Pflieger , Cassandra Gillette , & Emily Scheidt

Faculty Sponsor: Dr. Dawn Vogler-Elias

Abstract:

1) The group goes to Canandaigua Academy each week to work on social skills with students who have Autism Spectrum Disorder and Cerebral Palsy. 2) We provide new and unique social environments (new people to interact with/mock situations) and provide social challenges for students to complete each week. 3) We do it to help the school speech pathologist provide students with opportunities that it would be difficult for her to provide, to help the students learn and grow, to learn about students with these disabilities and to build relationships with them.

Reason for Participating:

Class requirement for CSD 457

28. A Comparison of the eighteenth-century French "Siècle des Lumières" and German "Aufklärung"

Joshua Hurd

Faculty Sponsor: Dr. Mireille Le Breton

Abstract:

The project will be a multi-faceted comparison of the political, social, literary and philosophical atmospheres of eighteenth-century France and Germany's Enlightenment. This comparison will bridge my two academic majors of French and German, taking a in depth look comparative at their history, literature and culture.

Reason for Participating:

Class requirement for FRN 302

29. Does Microwaved Water Affect Plant Growth?

Ryan Keilman & Toni Houda

Faculty Sponsor: Dr. Kelly Hutchinson-Anderson

Abstract:

In this experiment, we investigated the effects of microwaved water on the plant growth of bean plants. We conducted our experiment by planting bean seeds in different containers and then watering one container with microwaved water, one with stove-heated water, and one with unheated water. We observed the plant growth over the next several weeks to determine the effect of microwaved water on bean plant growth.

Reason for Participating:

Class requirement for SCI.Q-101

30. The Determination of the Freezing Rate between Cold Water and Hot Water

Evelyn Killeen & Tamara Louison

Faculty Sponsor: Dr. Kelly Hutchinson-Anderson

Abstract:

The purpose of this experiment was to determine if hot water freezes faster than cold water which is a theory that some people believe. Some researchers have found that hot water does freeze faster than cold water and believe this phenomenon could occur because less mass, less dissolved gas, or convection currents producing a non-uniform temperature distribution in the hot water making it freeze faster than cold water (Chase, Weiss, Hillman, & Urban, 2009). To investigate this theory, we conducted several different experiments using different methods in an attempt to have hot water freeze faster than cold water.

Reason for Participating:

Class requirement for SCI.Q-101

31. Chemical Analysis of Home Made Wine Quality

Alison Kochersberger & Megan Floyd

Faculty Sponsor: Dr. William Lammela

Abstract:

Chemical analysis of common faults in wine will be performed, comparing commercial wine to home made. Specifically, we will be analyzing a sample of home brewed wine for known chemical contaminants as well as products of wine decomposition. These components will also be analyzed in a comparable commercial white wine, a Chardonnay, and compared to literature values for acceptable concentrations in wines. Total acid content will be determined by titration. Copper and iron will be determined by Atomic Absorption Spectroscopy. Trichloroanisole, acetylaldehyde, 2,3 ethoxy 3,4 hexadiene, and sulfur dioxide concentrations will be determined by Gas Chromatography. The purpose of this project is to use quantitative means of comparing the quality of home-made and commercial wine.

Reason for Participating:

Class requirement for CHM 325 Chemical Instrumentation

32. Hydroponic Removal of Bisphenol A by Phytoremediation with Phaseolus vulgaris, Medicago sativa, and Trifolium pretense.

Ariel Kubissa

Faculty Sponsor: Dr. Stephanie Zamule

Abstract:

Endocrine disruptors are substances that interfere with the metabolic processes of plants and

animals, such as reproduction by acting as a hormone. Bisphenol A (BPA) is an endocrine disruptor involved in the production of epoxy resins, polycarbonates, and plastics. Manufactured goods such as adhesives, compact disks, packaging, baby bottles, and electronics often contain BPA. These products and others are a cause for BPA contamination in natural aquatic areas and waste landfill areas. Phytoremediation is an innovative technology that cleans up toxic polluted sites by taking advantage of natural plant processes. Chemicals in the soil can be stored in the plant or metabolized into less harmful chemicals by the plant. The purpose of this study was to choose plants that would be effective for phytoremediation in the Rochester, NY area, and to determine if they were effective in removing BPA from a hydroponic solution using HPLC analysis. The plants in this study included: Phaseolus vulgaris, Medicago sativa and Trifolium pretense. Data are forthcoming.

Reason for Participating:

It's a great experience and a 1-credit research opportunity.

33. Analysis of Aquarium Water for Water Hardness, Dissolved Oxygen, and Zinc Concentration for Suitability for Fish

Ariel Kubissa & Nicole Delello

Faculty Sponsor: Dr. Robert Arcus

Abstract:

This project summarizes the findings from analysis of Dr. Lammela's fish tank water for water hardness levels with EDTA titration, Dissolved Oxygen content with titration, and Zinc concentration using AAS. Results were then compared with known levels of each variable ideal for freshwater fish life to determine if his aquarium was suitable for fish.

Reason for Participating:

Class requirement for CHM 226L02

34. Cherubino's Journey: A Study of the Famous Character in Mozart's The Marriage of Figaro

Joelle Lachance

Faculty Sponsor: Dr. Zbigniew Granat

Abstract:

Wolfgang Amadeus Mozart's (1756-1791) comic opera, The Marriage of Figaro, is famous for being a controversial and witty commentary on life, society, and the study of human characters. It pokes fun at the aristocracy and the current political state in Europe and supports the idea of

the new regime run by the people. It also gave life to one of the most memorable characters to grace the operatic stage: Cherubino. My research focuses on The Marriage of Figaro as seen from Cherubino's perspective. Cherubino, a pubescent boy, typically sung by mezzo sopranos and other female voices, presents an interesting perspective on the story that playwright Beaumarchais, then Mozart present to the public. He has comedic tendencies, expressed in his two arias, "Non so piu" and "Voi che sapete", which discuss his questions about love and his confusion over the emotions it causes. His individual vocal line and high voice represent both his youthfulness and his compassion, as well as his love of life and those around him. In my poster I will demonstrate how Cherubino begins the work in a very innocent state, but grows as a character and as a man as the work progresses. I will trace this progress through excerpts from Cherubino's vocal lines and text supported with musical examples. This unique character will serve as a guide into Mozart's world of Figaro and explore the ways in which human experiences relate to politics.

Reason for Participating:

I enjoy doing research and learning more about subjects that I find interesting, such as music history in the Classical Era. Also, I was asked specifically by Dr. Granat, as he has had me in a few of his classes and knows that I enjoy the process of researching immensely.

35. Learning with Children from Refugee Backgrounds: A Reciprocal Process

Anne Marie LaFave

Faculty Sponsor: Dr. Susan Kwiatkowski

Abstract:

I am a student clinician at an after school language enrichment program for children from refugee backgrounds. I gathered interviews from these students about what they have learned by participating in the afterschool program. I also utilized reflections that my fellow clinicians wrote about their experiences working with these students. Specifically, I focused on the growth of clinicians in the area of cultural competency. Together these testimonies from the children and clinicians demonstrate the benefits of a program where true reciprocity exists between those providing services and those receiving services.

Reason for Participating:

I love that through this program I am able to fulfill an educational requirement while helping with a genuine need in the community. I wish there were more opportunities in college to do this. Through this poster presentation I want to share my passion for working with children from refugee backgrounds and promote academic programs that have a civic engagement component.

36. Esterification of Oleic Acid Catalyzed by Tin (II) Bromide

Briana Laubacker

Faculty Sponsor: Dr. Richard Hartmann

Abstract:

Biodiesel can be produced from a variety of oils including virgin and used cooking oil. Transesterification is typically employed to process virgin oils, but for used oils, an acid catalyzed pre-esterification reaction must be performed in order to convert the free fatty acids that are present. This reaction is usually catalyzed with a strong Brønsted acid like sulfuric acid, but Lewis acids, such as the tin (II) halides, can also catalyze this transformation. In this research the efficiency of tin (II) bromide as a catalyst was studied. Analysis of NMR spectra of the reaction over time showed an increase in fatty acid methyl esters (FAME), which indicates that tin (II) bromide is an effective catalyst. Using rate constant data from reactions run from room temperature to 55 °C, the activation energy was determined to be 68.9 kJ/mol.

Reason for Participating:

I am participating to share the results of the research I have been doing.

37. Vitamin E Content in Selected Plants

Madeline Leahy, Kaitlyn Dugan, Guadalupe Perez, Casey Costello & Hanza Ahmed

Faculty Sponsor: Dr. Sheila Brady-Root

Abstract:

We will be presenting the process of growing amaranth, green peppers, and kale. We have research on each plant's vitamin content. Our Chem student, Kaitlyn, is going to measure the amounts of vitamins present.

Reason for Participating:

Class requirement for Nutrition lab

38. Mary's Place

Bridget Lundy, Greg Horton, Ciara Fretto, & Shalynn Walsh

Faculty Sponsor: Dr. Dawn Vogler-Elias

Abstract:

Created a PSA video/commercial to highlight what Mary's Place is, that will hopefully help to

promote future volunteers and funding for the program. We also provided activities for the students at Mary's Place.

Reason for Participating:

Class requirement for CSD 457

39. Creative Expression in the Deaf Community and its Effects on Professionals in the Speech and Hearing Services

Carly Maldonado

Faculty Sponsor: Dr. Marjorie Roth

Abstract:

I explored Deaf culture through literature, poetry, film, and art that represents the "Big 'D' Deaf" experience and compared that representation to the depiction of speech and hearing professionals and hearing technologies in Deaf literature, poetry, film, and art. I also explored the rhetoric used by professional documents and textbooks used to represent deafness and the deaf community. My ultimate goal was to gain a better understanding of my responsibilities to the Deaf community as a future audiologist. I also gained a greater understanding of Deaf culture and learned more about what is like to be Deaf in a modern world that puts so much emphasis on the importance and worth on technologies that allegedly improve quality of life.

Reason for Participating:

This is research that served as the foundation of my Honors Thesis.

40. Etch or no Etch

Paolo Marino

Faculty Sponsor: Dr. Kelly Hutchinson-Anderson

Abstract:

The goal of this experiment was to pinpoint the role of an etch in the process of Lithography using limestone. The etching process in lithography is a chemical process which bonds an image to the surface of the limestone. In this experiment, the etch was tested by three trials: In the first trial no acid would be used to etch. The second trial used nine drops of nitric into a one ounce solution of gum arabic. The final trial used eighteen drops of nitric acid. Each time four prints were made and compared for differences in surface appearance, oil and ink retention and application, and water retention on the surface of the stone.

Reason for Participating:

Class requirement for SCI.Q-101

41. Fashion in 18th Century France

Daniel McDonald, Sofia De Luca, & Claire Mulvey

Faculty Sponsor: Dr. Mireille LeBreton

Abstract:

We will explore the fashion of the eighteenth century and its many changes and influences over the century. We will conduct an analysis of the relationship between the culture of excess and fashion, and also talk about the different types of clothing characteristics with regard to certain social classes and between women and men. We will conclude that fashion was a conduit for the wealth of some people and a way to identify and judge the social status of others.

Reason for Participating:

FRN 302 01 18th Century French Enlightenment

42. Understanding Sonata Form in Classical Era Music Using the Music of W.A. Mozart

Nathan Morris

Faculty Sponsor:

Dr. Zbigniew Granat

Abstract:

Form is a necessary structure in music that gives musical ideas a foundation to follow. Sonata form is the fundamental form of Classical Era music (1750-1830). Most composers used this form while composing in many different genres of music, including symphonies, sonatas and, concertos. My research focuses on the ways in which sonata form manifests itself in the music of W.A. Mozart (1756-1791), who is considered to be one of the most well-known Classical Era composers. Sonata form consists of four sections. These sections are called exposition, development, recapitulation, and coda. These four sections follow this order, each serving a different purpose, yet they also seem to work together to produce a coherent whole. The development, recapitulation and coda all derive their meaning from the musical material originally presented in the exposition section, yet each fulfills a different function in the unfolding of the form. For the purpose of this poster presentation I will use the general foundation of sonata form and apply its principles to W.A. Mozart's Symphony #25, K.183. I will show how sonata form was used in the Classical Era by presenting representative examples

of all four sections from Mozart's symphony. My goal will be to demonstrate the sonata form principles in a way in which non-musically trained individuals will be able to understand.

Reason for Participating:

My reason for participating is for academic research experience and interest.

43. Effect of Alkalinity on Aquarium Life

Umer Najam & Jaissy Sekhon

Faculty Sponsor: Mr. John Mendel

Abstract:

We will be testing aquarium water to see how stable is alkalinity is for water life.

Reason for Participating:

Class requirement for Chem 226L

44. Esterification of Free Fatty Acids in Oleic Acid for Biodiesel Synthesis using Lewis Acid Tin (II) Iodide

Kristin Nichols

Faculty Sponsor: Dr. Richard Hartmann

Abstract:

In this project, the effect of the Lewis acid Tin (II) Iodide on the esterification of free fatty acids in oleic acid was explored. The percent methyl esters formed was analyzed over time, displaying an increase. Using a condenser, oleic acid, methanol, and the tin (II) iodide were combined and heated to various temperatures. samples were taken at minute time intervals and the methanol was flash evaporated. The sample was then analyzed through ¹H NMR. This project is carried out to find a more effective means of synthesizing biodiesel. Biodiesel is a better fuel source economically and for the environment. Therefore, its production is very beneficial.

Reason for Participating:

I would like to share my research with Nazareth College and the community.

45. Heteronormative High Schools and the Adolescent Male Response

Rachel Olson

Faculty Sponsor: Dr. Marjorie Roth

Abstract:

I intend to visually depict the findings of my honors research in poster form. I am currently creating a web layout of my thesis results and would like to have an interactive website containing the same information to accompany my poster. My thesis discusses the issues of heteronormativity (the assumption of heterosexuality) in schools stemming from strict gender roles and the effects of said roles on adolescent male development. The poster will follow a hypothetical student's school experience in a fashion similar to that found in my Honors Thesis. I would like to present my findings in visual form in order to deliver what I believe to be an important message to a wider audience.

Reason for Participating:

Although the initial reason for delivering my thesis in this format was to help me condense my research for my thesis defense, my purpose is now to present my findings in a more accessible format to a wider audience.

46. Positively Frigid: The Effect of Cold on Battery Life

Jacqueline Peck & Emily Sebian

Faculty Sponsor: Dr. Kelly Hutchinson-Anderson

Abstract:

An old wives' tale tells that batteries stored in the freezer will last longer than batteries stored at room temperature. This experiment was designed to test how the efficiency of batteries stored in the freezer or the fridge for varying amounts of time compared to room temperature batteries. Other scientists have found that storing batteries in cooler temperatures does increase the shelf life of batteries but not significantly. The purpose of our experiment was to test the validity of this claim. Our hypothesis was that storing batteries in the fridge or freezer would have little to no effect on their performance.

Reason for Participating:

Class requirement for SCI.Q-101

47. Testing for trace amounts of nitric acid in productive fish tank conditions as well as buffering capacity through titration.

Jonathan Piacentino & Ira Griffin

Faculty Sponsor: Dr. William Lammela & Mr. John Mendel

Abstract:

Aquarium project: Used Titration methods to detect traces of Nitric acid present in a living fish tank environment. Why: required experiment project for chemistry 226 laboratory my partner and I chose titration techniques.

Reason for Participating:

Course requirement for Chem 226L

48. A Caloric Content Study: Fresh, Canned, Low Sodium Canned, and Cooked Fresh Green Beans

Sarah Pesto

Faculty Sponsor: Dr. William Lammela

Abstract:

For my project I investigated the caloric content differences between canned green beans, fresh green beans, low sodium canned green beans, and cooked fresh green beans. I used the lyophilizer to freeze dry the samples and bomb calorimetry to determine the caloric content by combustion of a sample within the reaction vessel. The heat produced by combustion raised the temperature of the water in the external jacket which allowed for the determination of calories per gram of each sample. I performed these experiments to collect data for my senior research. In my senior research I am investigating the effects of salt from processed foods on the body. In my experiment I fed 3 groups of five mice diets of canned green beans, fresh green beans, and a control group of regular mouse food respectively. Throughout the experiment I monitored weight, specific gravity of their blood, and determined differences in fecal dry weights. From these parameters I hope to find differences that will show how salt intake from processed foods has affected parameters of the body.

Reason for Participating:

Class requirement for Chemical Instrumentation

49. Buffer Capacity and Calcium Concentration (Hardness) of Dr. Lammela's Aquarium

Rife Revoir & Hayden Longest

Faculty Sponsor: Dr. Robert Arcus

Abstract:

We took multiple samples from Dr. Lammela's fish tank (from varying depths and locations around the tank) and tested them for concentration of calcium ions and the ability to maintain a stable pH (buffer capacity). Using the AAS machine, we determined the hardness of the aquarium samples collected over the course of 3 weeks. We found the buffer capacity by measuring the amount of 1M HCl it took for the pH of the collected samples to change 1 pH unit. The results we found were then compared to information pertaining to requirements for these that have been proven.

Reason for Participating:

Course requirement for Chem 226L 02

50. Growth of Kale, Pea, and Amaranth Plants and Subsequent Analysis of their Copper and Iron Concentration.

Paul Rubeo, Shelby Shafer, Julia Teran Pulford, Chelsea Vosburgh, & Dominick DeSalvatore

Faculty Sponsor: Dr. William R. Lammela

Abstract:

This project is a current joint research effort by students enrolled in Chemical Instrumentation and Nutrition this semester to determine the amounts of Copper (Cu) and Iron (Fe) in kale, pea, and amaranth plants. The Nutrition students are growing the three plant samples over the course of several weeks. Plants will then be analyzed by colorimetric analysis to determine concentration of these metals in plant extracts. This will be done to determine metal concentration and speculate about their importance in plant (and indirectly human) nutrition.

Reason for Participating:

Class requirement for Chemical Instrumentation and Nutrition

51. Bioremediation of the Components of Motor Oil by Organisms from Three Kingdoms

Jessica Saville, Grete Bader, & Jenny Scobie

Faculty Sponsor: Dr. William Lammela

Abstract:

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We explored the bioremediation of three components of motor oil through an original experiment. We collected data of the levels of hexane, cyclohexane, and benzene in a soil environment with ryegrass, *B. cereus* bacteria, and White Rot Fungus over time. This helped us learn about the potential of these organisms to break down these toxic chemicals in the environment.

Reason for Participating:

Class requirement for CHM 325 Chemical Instrumentation

52. Synthesis of BMS-806 Analogs to Better Understand the Structural Determinants of HIV Antiviral Activity

Michelle Scotland

Faculty Sponsor: Dr. Stephen Tadj

Abstract:

This research is designed to gain a fundamental understanding of the HIV-1 viral entry inhibitor drug candidate BMS-806, that binds to the HIV-1 envelope protein gp120. Identifying the structural activity relationship of BMS-806 can provide vital information on the chemical and structural determinants of its antiviral activity. In the current work, the analogs of the BMS-806 compound are being synthesized to create a compound with a better binding affinity for gp120.

Reason for Participating:

Class requirement for CHM300

53. The conceptualization of HIV/AIDS prevention in social work

Meng Simone Si & Scott Chatham

Faculty Sponsor: Dr. Elizabeth Russell

Abstract:

Introduction: This study reviews articles about HIV prevention published between 2009 and 2011 in the top 15 American Social Work journals to take an inventory of what social workers are currently doing and not doing in HIV prevention. The inventory is a first step in addressing what is missing in prevention that leaves so many at risk for contracting HIV. **Method:** A combination of Directed Content Analysis and open coding procedures are used. In Directed Content Analysis, the researchers ask and answer specific questions about the articles. The questions are based on the researchers' literature review of important characteristics of effective HIV prevention interventions. The researchers then use open coding to conduct a thematic analysis. **Findings:** Some themes include the usefulness and need for culturally competent interventions and the important preventative role of communities. Areas that are lacking include

little use of information technology as part of interventions and a lack of research on specific minority sub-groups. **Implications:** The findings in this study points to the future direction that HIV prevention strategies in the social work field should take.

Reason for Participating:

The information found in our master's project has relevance to all community members and I think it would be good to represent the social work program and deliver our message.

54. An Attempt at Viral Entry Inhibition via the Alteration of BMS-806

Liana Simon

Faculty Sponsor: Dr. Stephen Tajc

Abstract:

Throughout the semester, my partner and I conducted chemical syntheses under inert conditions (eliminating exposure to both atmospheric oxygen and water) which required a special laboratory set-up discovered over time by trial and error. We attempted to synthesize a drug capable of blocking enzyme receptors to prevent viral membrane fusion and viral entry to the human cell. Ultimately, derivations of a failed viral inhibiting compound, BMS-806, were attempted to prevent the entry of HIV into the human cell.

Reason for Participating:

Class requirement for CHM 160-Independent Research

55. Is the aquarium in Dr. Lammela's office suitable for fish?

Nandini Singh & Nicole Bayona

Faculty Sponsor: Mr. John Mendel

Abstract:

To answer this research question for this course, we reviewed a few articles and previous experiments that could help us decide how to go about this question in the most efficient way possible. After looking up a few articles on BOD (biochemical oxygen demand) about how it's used to determine the amount of oxygen dissolved in various water samples, we came to the conclusion that by performing a test using the BOD concept we would be able to answer whether the aquarium in Dr. Lammela's office is suitable for fish. To carry out this test, we decided that we could perform Titration with the aquarium water as our sample and other appropriate reagents and an appropriate indicator. The reason why we are using the BOD concept to answer this question is because of the fact that BOD determines the amount of oxygen dissolved in various samples of water so if our results show that there is sufficient amount of oxygen dissolved in

the aquarium water, it would most simply mean that it's appropriate for the fish to live in as they require oxygen to survive. We would be performing titration for this experiment in order to find the percent by mass present in the aquarium water by using the BOD concept. So we will take multiple readings and once we get appropriate data, our next step would be to make calculations determining the mass of dissolved oxygen.

Reason for Participating:

Class requirement for CHM226L

56. Communication with LifePrep@Naz

Haley Stolt, Anne LaFave, Brittany Peck, & Rachel Lowry

Faculty Sponsor: Dr. Dawn Vogler-Elias

Abstract:

The students at LifePrep@Naz will enhance their abilities to communicate by participating in a seminar with the Case Studies group. They will learn specific communication techniques that can be used in a variety of settings. The students at LifePrep@Naz will be able to utilize communication skills during their free lunch hour at Nazareth College. The Case Studies group will facilitate and monitor these skills via techniques such as indirect modeling. The Case Studies group hopes that by conducting this project, we will not only be able to assist the LifePrep students in their learning process, but also learn from them how to use a client centered approach with clients.

Reason for Participating:

Class requirement for CSD 457

57. Analysis of Synthetic Cannabinoids in Herbal Incense Blends using Gas Chromatography - Mass Spectrometry

Ben Stracuzzi

Faculty Sponsor: Dr. William Lammela

Abstract:

I am testing 5 varieties of herbal incense blends for synthetic cannabinoids using Gas Chromatography - Mass Spectrometry. The goal of this research project is to identify synthetic cannabinoids or other substances which may be harmful to human health. In last 5-10 years, the use of synthetic cannabinoids to create designer drugs camouflaged as herbal incense blends has become increasingly popular. These drugs are widely used among teens and young adults because they are legal, readily available, and produce highs similar to those induced by delta-9-

tetrahydrocannabinol (Δ^9 -THC) because they act on the same receptors in the brain. The detection of synthetic cannabinoids has become increasingly important as the underground industry that produces these drugs is not regulated and therefore proper toxicological and chemical analysis must be performed.

Reason for Participating:

Class requirement for CHM 325 Chemical Instrumentation

58. A.P.H.A.S.I.A.

Amanda Sudore, Kaeleigh Gajan, & Reba Schmoyer

Faculty Sponsor: Dr. Dawn Vogler-Elias

Abstract:

We organized and elaborated the resource library in the Aphasia Clinic here at Nazareth. We also engaged students, clients and family members in an opportunity to gain the perspective of others while emphasizing the necessity to communicate and collaborate with a group of interdisciplinary professionals. The purpose was to gain an understanding of other people. We did this by providing various resources to help restore a quality of life deserved as well as organizing an event to show the importance of other's perspectives and interdisciplinary efforts.

Reason for Participating:

Class requirement for CSD457 01 Case Studies

59. Determination of Iron in Aquarium Water

Taylor Thompson & Ying Ying Wu

Faculty Sponsor: Dr. William Lammela and Mr. John Mendel

Abstract:

The question we have been asked to answer is whether or not the aquarium in Dr. Lammela's office is suitable for fish. Fish, whether freshwater or saltwater, live in specific environments depending on their fitness to different habitats. An alter to factors such as pH, or concentration of a substance can cause serious health risks to the organisms, resulting in sickness or death. In order to determine this, we have decided to observe the pH and the concentration of Iron within the aquarium water. If these two elements increase or decrease between weekly observations, I believe the pH will correlate with these changes. In order to calculate the concentration of iron ions, I will use potassium manganate, in a dilute sulphuric acid solution, as an indicator. Every Tuesday and Friday I will titrate the solution and record the mL it takes for the aquarium water to turn pink. Depending on when the tank gets cleaned, I expect the water to contain more iron and

be more acidic before cleaning the tank, and after I predict the water will be relatively neutral with a normal concentration of Iron.

Reason for Participating:

Class requirement for Chemistry Lab

60. Is the aquarium in Dr. Lammela's office suitable for fish?

Elana Tontarski & Nessa Mark

Faculty Sponsor: Mr. John Mendel and Dr. William Lammela

Abstract:

We will determine if the aquarium in Dr. Lammela's office is suitable for fish by taking in consideration the pH, temperature, oxygen content, and other factors. We will use techniques learned in the laboratory to determine whether or not the values for these factors would be suitable for fish.

Reason for Participating:

Class requirement for CHM226L

61. Investigating BMS-378806

Emily Triplett & McKenna Murphy

Faculty Sponsor: Dr. Stephen Tajc

Abstract:

We have been varying the structure of the small molecule HIV-1 inhibitor BMS-378806 to determine which portions contribute most to the binding/inhibition potential and possible alter the structure to improve these capabilities. This has been accomplished through various simple organic processes adding different five membered rings to replace the molecule's acyl benzene. We hope to reconstruct the entire molecule with these variations and send them to our collaborators at Johns Hopkins University for analysis.

Reason for Participating:

Independent Research (CHM 160 and 300)

62. Education without Borders

Gabrielle Tripodi, Susan Allen-Mazzatti, & LaToya Jones

Faculty Sponsor: Dr. Dawn Vogler Elias

Abstract:

We are working with educators at Encompass Resource for Learning and have created a working resource library. We took inventory of the material and organized them to be used in a more efficient manner, which involved moving materials and creating a more conducive work environment for students and staff. Organization of the materials was needed due to the busy work schedule of the Encompass employees time was an issue, therefore we were able to use our time constructively and helped to create this resource library.

Reason for Participating:

Class requirement for CSD 457 Case Studies

63. How Does Studying Abroad Supplement your Education?

Darcie Tronolone, Annemarie Tiburz, Marissa Grammar, Rebecca Welch, Stacey Gonyeau, Candace Toporzycki, & Peter Steele

Faculty Sponsor: Dr. Mary Dahl Maher

Abstract:

We will discuss our one-week study abroad in the UNited Kingdom, how it supplemented our studies, and how we couldn't get the same perspective just by sitting in the classroom.

Reason for Participating:

Class requirement for NSG 336K - US Health Care Policy

64. Who is Happier and Why: Generation Xers or the Millennials?

Alexandra Vizgaitis

Faculty Sponsor: Dr. David Page

Abstract:

I did an independent study in psychology regarding generational differences in the experience of overall happiness, as well as the experience of 3 different types of happiness between two generations; namely, Generation X and the Millennial Generation. I measured by questionnaire some specific attitudes of the generations (LOC, LOT, social connectedness, meaning in life) and

later examined how/if these factors influenced overall happiness and types of happiness experienced. Data was collected through an online questionnaire, and then was analyzed using SPSS. I did this independent study because it gave me an opportunity to do in-depth research on a particular issue that I was interested in. The whole process was not only very interesting, but it also improved my research skills greatly.

Reason for Participating:

I completed an independent study, and although a poster/presentation was not mandatory, I wanted to present my research.

65. Stereotype threat in Pre-Kindergarten and Kindergarten Students

Jonathan Ward

Faculty Sponsor: Dr. Grant Gutheil

Abstract:

I've designed and pilot tested an experimental design based on extensive research in order to find out if stereotype threat is manifested in students in ages as young as pre-kindergarten and/or kindergarten

Reason for Participating:

Independent Study

66. Does Homemade Laundry Detergent Work as Effectively as Store Bought?

Allison Wentworth & Maria Seewaldt

Faculty Sponsor: Dr. Kelly Hutchinson-Anderson

Abstract:

Having noticed a recent trend towards all natural and homemade products, we investigated if it was possible to create a laundry detergent that was made with simple ingredients that would have the same, or at least similar, effects as the laundry detergent you could get in the store. People that commonly make laundry detergent say that it is not only cheaper at \$0.05 /load compared to \$0.20 /load, but it has great benefit to people who have children, as there are no added harmful agents or perfumes and dyes. We made our own laundry detergent using 2 different online recipes and compared them to Tide® laundry detergent. We tested for both the ability to remove stains and the blending of colors when washing reds and whites.

Reason for Participating:

Class requirement for SCI.Q-101

67. Responses to Facebook Status Updates: The Role of Valence and Exaggeration

Derek Wills

Faculty Sponsor: Dr. Ryan O'Loughlin

Abstract:

I conducted a research project in the Fall semester of 2011 on the role of valence and exaggeration in responding to Facebook Status. I recruited over 160 participants to participate in this study. They read four sample Facebook status updates and rated likelihood to accept a friend based on the status update, "like" the status update, block a user, comment on the status update, and be supportive of the status update. I did this project first and foremost because I was interested in Facebook and the behavior of those who use it. I also really wanted to get to experience of being involved in my own research and be able to present. I will first be presenting this at the Eastern Psychological Association in early March.

Reason for Participating:

Class requirement for Independent Study

