

SVSU STUDENT SHOWCASE

2017

WELCOME	Ott Auditorium	1:00pm -1:15 pm
POSTERS	Gilbertson Hall	1:15 pm – 3:00 pm

1. Synthesis and characterization of gadolinium-silica precipitation tubes

Christopher J. Sabal, Daniel P. Weller

Faculty Mentors: Matthew D. Vannette, and Jason J. Pagano, Physics and Chemistry

2. Parental Influences on Procrastination and Delay in Young Adults

Kaylee Evers, Joshua Bouchard, Jordyn Truax, Kayla Mockridge

Faculty Mentor: Ranjana Dutta, Psychology

3. Utilization of Comic Design in Informational Brochures

Emely Williamsom

Faculty Mentor: Michael Mosher, Art

4. Does infection with *Enterococcus faecalis* induce phosphorylation of multiple sites on the tau protein? – Implications for Alzheimer's Disease

Crystal Gwizdala

Faculty Mentor: Charles Weaver, Psychology, Biology and Health Sciences

5. Overcoming Barriers: Researching the Difficulties of Writing and the Effects of Volunteerism

Adam Blackett, Claire Oswald, Megan Wagner

Faculty Mentor: M. Patricia Cavanaugh, English

6. An Investigation of the Antibiotic Effectiveness of Synthesizing Eugenol to Cefotaxime

Bradley Hunt

Faculty Mentor: Stephanie Brouet, Chemistry

7. Development of synthetic models for metal-containing biomolecules with an emphasis on understanding their redox behavior

Arti Patel, Andrea Nikolai

Faculty Mentor: Adam Warhausen, Chemistry

8. Synthesis, Characterization, Electrochemical, and Spectroelectrochemical Investigation of Iron and Ruthenium Hydroxamate Complexes

Bradley Ross

Faculty Mentor: Adam Warhausen, Chemistry

9. Synthesis of a Substituted Analog of the Cyclic Peptide Dianthin G

Matthew Powers

Faculty Mentor: Jennifer Chaytor, Chemistry

10. Measuring the Effect of HHR Demolitions on Crime Rate in Greater Saginaw

Jessica Fittrakis

Faculty Mentors: Andrew J Miller, Evelyn Ravuri, Geography

11. Slur Appropriation in the Names of Social Networking Groups

Natasha Riegler

Faculty Mentor: Natalia Knoblock, English

12. Evidence of Gene Loss in *Pinus taeda*

Joe Knizacky

Faculty Mentor: Dennis Gray, Biology

13. Analysis of Family Orientation in the Process of Coming Out

Marissa Michalski

Faculty Mentor: Jennifer D. McCullough, Communication

14. Reflections on Reggio Emilia and Montessori: A Study Abroad Experience

Jacqueline Emming, Maria Warren

Faculty Mentor: Debbie Lively, Teacher Education

15. Learning to Lead - Leading to Learn

Katelyn Rumsey, Anna Nowak, Abigail Lopez, Julieann Derra, Rachel Hansen

Faculty Mentor: Colleen D'Arcy, Early Childhood Education

16. Investigating microRNAs in the development of cardiovascular disease

Phillip Markey

Faculty Mentor: Jay Scott, Biology

17. Investigating the Effects of Political Instability on Microfinance: An International Perspectives

Aranya Biswas, Mohammed Rubaiath Hossain

Faculty Mentor: Kaustav Misra, Economics and Finance

18. Effects of adding biguanide to C-glycosides on blood glucose reabsorption

Chelsea Harmon

Faculty Mentor: Jennifer Chaytor, Chemistry

19. A Qualitative Exploration of Social Work Student Study-Abroad Experiences Through Autoethnography

Susie Balcom, Olivia Irwin

Faculty Mentor: Denise Dedman, Social Work

20. Social Capital and Compulsory Voting in Europe

Alex Stegbauer

Faculty Mentor: Julie Keil, Political Science

21. Molecular phylogeny of tangs (*Zebrasoma*, Acanthuridae)

Haley VanScoyoc

Faculty Mentor: Cal Borden, Biology

22. Effects of Bupropion, an Environmental Contaminant, on a Keystone Aquatic Species (*Orconectes rusticus*)

Cassidy Florey

Faculty Mentor: Arthur Martin, Biology

23. Optimization of a Cellular Phone-Based Method for Nitrate/Nitrite Detection Using Paper-Based Fluidic Devices

Katie Kwiatkowski, Zachary Velasco

Faculty Mentor: Kyle A. Cissell, Chemistry

24. The Smart Kennel

Sarah Albanawi, Jon Knieper, Victoria Olguin, Jordan Reed

Faculty Mentor: Rajani Muraleedharan, Electrical & Computer Engineering

25. Exploration of α -glucosidase Inhibitors via Preparation of β -D-glucose Analogs

Bryant Pero

Faculty Mentor: Jennifer L. Chaytor, Chemistry

26. Exploring the evolution of methylbutenol synthase through reduction of the *Picea sitchensis* linalool synthase active site; An Update

Martin Weaver

Faculty Mentor: Dennis Gray, Biology

27. Chemical Synthesis of Cyclic Peptide Stylissamide X

Kathy Warrick, Cameron Volders

Faculty Mentor: Jennifer Chaytor, Chemistry

28.

29. Assessing the Genetic Diversity of Sicklefin Chub in the Missouri River Basin

Meagan McNinch

Faculty Mentor: Cal Borden, Biology

30. Origin and migration of ancestral populations of smallmouth bass into Michigan rivers

Justin Royer

Faculty Mentor: Cal Borden, Biology

31. Role of Serum-Derived Factors in "Inflammaging" Using Bone Marrow-Derived Macrophages

Kristen Loesel

Faculty Mentor: Jay Scott, Biology

32. Associations Among Pre-Pregnancy BMI Weight Gain, and Body Dissatisfaction Pregnant Women

Ashley Boggs, Brenna Dressler, Anya Odabasic, Holly Simon, Ashlyn Swafford, Sarah Wagner, Jessica Walker, Liliana Wiederhold

Faculty Mentors: Meghan Baruth, Rebecca A. Schlaff, Samantha Deere, Health Science and Kinesiology

33. Investigation of immunostaining techniques using bone marrow-derived macrophages

Anya Odabasic

Faculty Mentor: Jay Scott, Biology

34. Aggression and Shelter Spacing in Crayfish (*Orconectes rusticus*)

Thomas Beechum

Faculty Mentor: Arthur Martin, Biology

35. Provenance Research: Authenticating Renaissance and Baroque Art

Drew Deming

Faculty Mentor: Michelle Randall, Art

36. Validation of qPCR rapid bacterial quantification through viable E. coli cell count in the Saginaw Bay Watershed

Tyler LeFevre

Faculty Mentor: Tami L. Sivy, Chemistry

37. Correlation Between Mock-NBA Combine Tests and Laboratory Measures in NCAA DII Men's Basketball Players.

Bethany L. Bouvrette

Faculty Mentors: Adam M. Coughlin, Jeremy L Knous, Kinesiology

38. Effects of Alkyl Chain Variation on Gel Formation and Properties in Carbohydrate-Based, Low Molecular Mass Compounds

Nicholas Toupin

Faculty Mentor: Jennifer Chaytor, Chemistry

39. Estimating the Value of Crime Rate and HHR Demolitions on the Housing Market of the Greater Saginaw, MI Region.

Alex Korhorn

Faculty Mentors: Andrew Miller, Evelyn Ravuri, Geography

40. Police Relations Found in Virtual Worlds and Reality

Briana Reed, Shaun-Patrick Allen

Faculty Mentors: Timothy Rowlands, Sheruni Ratnabalasuriar, Melissa Hobart
Criminal Justice and Communication

41. Synthesis of Dianthin G, a Peptide that Promotes the Formation of Osteoblasts

Kathlyn Underwood

Faculty Mentor: Jennifer Chaytor, Chemistry

42. Effects of Physician Discussion/Recommendation on Physical Activity During Pregnancy

Ashley Boggs, Brenna Dressler, Anya Odabasic, Holly Simon, Ashlyn Swafford, Sarah Wagner, Jessica Walker, Liliانا Wiederhold

Faculty Mentors: Meghan Baruth, Rebecca A. Schlaff, Samantha Deere, Health Science and Kinesiology

43. Expression and characterization of a putative linalool synthase (ISH) sequence from Pinus sp.

Samantha Turner

Faculty Mentor: Dennis Gray, Biology

44. Aromatase inhibition via an endocrine disruption cocktail exposure negatively affects development in the Norway Rat (*Rattus norvegicus*)

Stephen Holihan, Olivia Bishop, Matthew Windy

Faculty Mentor: Gary M. Lange, Biology

45. Monitoring NCAA Women's Volleyball Athlete's Physiologic Response During Off-Season Training

Geena Militello

Faculty Mentor: Adam Coughlin, Kinesiology

46. Vaccination of Influenza on College Campuses (VICC): A study to identify the correlation of determinants on influenza vaccination rate disparities

Jarrod Eaton

Faculty Mentor: James Collins, Health Science

Room GS 114**The Effects of Early College Programs on Students' Post-Secondary Academic Performance***Jenni Putz, Cody Kirby*

Faculty Mentor: Kaustav Misra, Economics

Mapping Income Inequality Through Industrial Structure Analysis*Jenni Putz*

Faculty Mentor: Kaustav Misra, Economics

How Wall Street is caching in on your personal information*Michael Easterday*

Faculty Mentors: Kaustav Misra, Elizabeth Pierce, Economics

Economic Growth: A Schumpeterian Analysis on R&D Behavior*Cody Kirby*

Faculty Mentor: Micha DeVecchio, Economics

Room GS 126**The Effects of Study Abroad Participation on Post-Graduate Earnings and Additional Education***Tyler Newell*

Faculty Mentor: Kaustav Misra, Economics

The Growth of Distance Learning Courses in Higher Education and The Impact on Graduation, Retention, and Grade Point Average*Kyle Parks*

Faculty Mentor: Kaustav Misra, Economics

Mapping land cover changes along the Kawkawlin river using object-based classification of 1938 and 2014 aerial photography*Erik Breidinger*

Faculty Mentor: Rhett Mohler, Geography

Room GS 119**Social Entrepreneurship as An Approach to Solving Societal and Economic Issues: A Case Study on a Community & Business Leader***Ilesha Swilley*

Faculty Mentor: Joseph Ofori-Dankwa, Management

Corporate Fraud in the United States and the Culture that Cultivates It*Jessie Klisz*

Faculty Mentor: Elizabeth Pierce, Accounting

Broken-hearted and Empty-handed: An Analysis of the Options for Controlling the Secondary Ticket Market for Concert Performances.*Amanda Wheeler*

Faculty Mentor: Amy Hendrickson, Accounting, Law, and Finance

Effect of Regional Trade Agreements on Income Inequality: Lesson from Unequal Countries*Ian Taylor*

Faculty Mentor: Kaustav Misra, Economics

PANEL PRESENTATION**Gilbertson Hall**2:00 pm – 3:00 pm

*Room GA 114***Human Library: Developing, Implementing, and Evaluating a Living Story Collection***Victoria Phelps, Alexa Foor, Danielle Musselman*

Faculty Mentor: Dr. Sherrin Frances, English

PERFORMANCES**Ott Auditorium**3:00 pm – 3:30 pm

Ending Anti-Semitism on College Campuses*Gylia Castle*

Faculty Mentor: Amy Pierce, Communication

Feeling Lucky? The Descent Into Googlocracy*Erik Breidinger*

Faculty Mentor: Amy Pierce, Communication

Le Danse Macabre*Gina Kearly*

Faculty Mentor: Amy Pierce, Communication

Cardinal Singers

Director: Kevin Simons, Music

VIRTUAL REALITY DEMONSTRATION1:15 pm – 3:00 pm

Kelly Gray,

VR-REG Virtual Reality Research Group

Faculty Mentor: Mike Mosher

Special Thanks to:

Top Project Judges

Marie, Cassar, Psychology

Mark McCartney, Accounting

Samantha Deere, Kinesiology

Veronika Drake, English

Rhett Mohler, Geography

Dennis Savard, Criminal Justice

Adam Warhausen, Chemistry

Charles Weaver, Health Sciences

Paper Presentation Moderators

Ken Jolly, History

Kaustav Misra, Economics

Joseph Weaver, Psychology