

SENIOR PROJECT CELEBRATION

In keeping with Allegheny's commitment to provide students with a liberal arts education of high standards, the Senior Project is not a mere report or semester paper, but a significant piece of independent study, research or creative work conducted under the supervision of one or more faculty members. **The outcome of a Senior Project is more than a grade or a written document;** for the student it often results in a new way of looking at complex problems and inspires an appreciation for the power of ideas that might previously have seemed like abstract concepts in a textbook. Often it can be a pivotal moment when a student realizes his or her own abilities and potential.



ALLEGHENY COLLEGE

April 24, 2015

POSTER PRESENTATIONS

10:00 am – Noon

Main floor, Academic Commons (Pelletier)

Aydin Alikaya

Major: Neuroscience
Minor: Philosophy

The Effect of Testosterone on Neurogenesis in the Crayfish Brain

Project Advisor: Lauren French

Megan Bart

Major: Communication Arts
Minors: English; History

The People United Will Never Be Defeated: Social Media, Intercommunication, and the Production of Ferguson's Resistant Subjects in Neoliberal Times

Project Advisor: Julie Wilson

Brynya Bowden

Major: Environmental Studies
Minor: Dance and Movement Studies

Yoga: A New Way to Approach Environmental Education?

Project Advisors: Eric Pallant; Eleanor Weisman

Maria Bozzo

Major: Biology
Minor: Psychology

An Investigation of the Methylation Status of the Promoter Region of Keap1 and Its Expression in Canine Hemangiosarcoma

Project Advisor: Kristen Webb

Cecilia Bruni

Major: History
Minors: Women's Studies; Middle East and North African Studies

"The Lavender Menace:" The Complicated Relationship between Feminism and Lesbianism in the Second Wave of Feminism

Project Advisor: Barry Shapiro

Erica Bryson

Major: Global Health Studies
Minors: Biology; Psychology

Community Health Needs Assessment: A Collaborative Process for Survey Development

Project Advisor: Becky Dawson

Mario Buffalini

Majors: International Studies; Spanish

The Argentine Default and Debt Restructuring: The Economic Crisis and Dealing with Outstanding Debt, 1983–2012

Project Advisors: Simon Bilo; Graciela Maglia; Shannan Mattiace

Melinda Buker

Major: Spanish
Minor: Women's Studies

¿Joya cultural o cabeza de turco? La representación de los gitanos españoles en el siglo XX

Project Advisor: Teresa Herrera

Hope Collins

Major: English—Nonfiction Creative Writing
Minor: Psychology

Swallows, Anchors, & Sails: Essays from a U.S. Brig Niagara Deckhand

Project Advisor: Matthew Ferrence

Phoenix Cooke

Major: Economics
Minor: Studio Art

21st Century Inequality and Property Crime within U.S. Neighborhoods: Does Local Inequality Translate into Increased Levels of Property Crime for 2000 to 2010?

Project Advisors: Stephanie Martin; Zachary Klingensmith

Janos Cseh

Major: Studio Art
Minor: Economics

Isolation Room

Project Advisors: Darren Miller; Byron Rich

Kristen Dennis

Majors: Math; Geology
Minor: Psychology

Transient Electromagnetic Survey: Subsurface Investigation in the Santo Domingo Reservation, New Mexico

Project Advisors: Rachel Weir; Bob Schwartz

Hanna Hebert

Majors: Managerial Economics; Environmental Studies

The Relationship between Corporate Environmental Performance and Corporate Financial Performance: An Empirical Analysis of 50 U.S. Corporations

Project Advisors: Steve Onyeiwu; Eric Pallant

Greta Hilbrands

Major: Psychology
Minor: English

Traits of Autism Associated with Internet Addiction and Social Anxiety in College Students

Project Advisor: Monali Chowdhury

Dalton Johnson

Major: History
Minors: Economics; Philosophy

Into the Night: George R.R. Martin's A Song of Ice and Fire and the Early Icelandic Night Time

Project Advisor: Stephen Lyons

Raymond Jozwiak

Major: Economics
Minor: English

Identifying the Causal Factors that Affect the Industrial Organization of Primary Aluminum Smelters Across the Globe

Project Advisor: Tom Nonnenmacher

Tim Kloepfel

Major: International Studies
Minor: German

Hitler's Consolidation of Power via the Remilitarization of the Rhineland (1936)

Project Advisor: Peter Ensberg

Aviv Lang

Major: Behavioral Economics
Minors: Studio Art; Communication Arts

Adjusting the Prism: Testing the Anchoring Effects of Color

Project Advisors: Lydia Eckstein Jackson; Douglas Frank

Cailyn Lingwall

Major: Global Health Studies
Minor: Political Science

Evaluating Physical Activity among Preschoolers at an Income-eligible "Pre-K Counts" Program in Rural Northwest Pennsylvania

Project Advisor: Caryl Waggett

Nicole Masters

Major: Neuroscience
Minor: Political Science

Experiences of Physical and Emotional Abuse are Associated with Blunted Cardiovascular Reactions to Psychological Stress

Project Advisor: Sarah Conklin

Maura Matvey

Majors: Psychology; Spanish

The Effect of Accent Prejudice on the Subjective Well-Being of Non-native English Speakers

Project Advisors: Aimee Knupsky; Nancy Smith

Jessi Mazzoni

Majors: Biology; Global Health Studies
Minor: French

International Rights and Obligations to Health with Efforts to Combat Micronutrient Deficiency: Preventing Neonatal Vitamin A Deficiency through Supplementation in the Mouse Model (*Mus musculus*)

Project Advisors: Lee Coates; Ken Pinnow

Steve Milcarek

Major: Physics
Minors: Economics; Astronomy

An Investigation of the Star V838 Monocerotis and Surrounding Astrophysical Parameter Space

Project Advisor: Jamie Lombardi

Katelyn Nicewander

Major: Neuroscience
Minor: Political Science

Lavender Essential Oil Aromatherapy Does Not Reduce Cardiovascular Reactions to Acute Psychological Stress

Project Advisors: Sarah Conklin; Lydia Eckstein Jackson

Brooke Ollander

Major: Physics
Minor: German

Dependence of the Contact Angle on the Method of Self-Assembled Monolayer Production

Project Advisors: Adele Poynor; David Statman

Alexandra Opsitnick

Major: Environmental Geology
Minor: Environmental Writing

Reservoir Quality of the Marcellus Shale Play of the Hill Unit 2H and Hill Unit 3H Wells

Project Advisor: Bob Schwartz

Shannon Petersen

Major: Physics
Minors: Writing; Mathematics

Quantifying the Relationship Between Surface Hydrophobicity and Depletion Layer Thickness

Project Advisor: Adele Poynor

Michael Petro

Major: Biology
Minor: Dance and Movement Studies

Determining the Importance of Force Production, Takeoff Speed, and Hip Flexion on Long Jump Performance

Project Advisor: Lisa Whitenack

Faith Robinson

Major: Biology
Minor: Music

The Effects of Musical Stimuli on Memory in Mice with Mice Modeled Alzheimer's Disease

Project Advisors: Lee Coates; Ron Mumme

Jenna Sandala

Major: Biochemistry
Minor: French

Disruption of Haemophilus ducreyi Biofilms by Probiotic Lactobacilli

Project Advisor: Tricia Humphreys

Lee Scandinaro

Major: Communication Arts
Minors: Theatre; Political Science

Diversity Discourse at Allegheny College: The Commodification of Citizenship in Neoliberal Times

Project Advisor: Emily Yochim

Julia Shock

Majors: Communication Arts;
Environmental Science

Hemlock

Project Advisors: Michael Keeley; Rich Bowden

Sara Schwartz

Major: Environmental Studies
Minor: English

Zooming In: A Photovoice Project that asks Fourth Grade Students to Frame How they Experience Physical Activity

Project Advisors: Caryl Waggett; Ben Haywood

Marlee Sherretts

Major: Computer Science
Minor: Spanish

Using Dynamic Invariant Detection and Static Visualization to Find Faults in Spreadsheets

Project Advisor: Gregory Kapfhammer

Sadie Stuart

Major: Environmental Science
Minor: Economics

The Carbon Athletic Conference: A Cleaner and More Affordable Option for Allegheny College Athletics

Project Advisor: Rich Bowden

Autumn Vogel

Major: Psychology
Minor: Values, Ethics and Social Action

Activist Theatre: The Effects of Activist Theatre on Socio-political Attitudes and Willingness to Engage in Activism

Project Advisor: Lydia Eckstein Jackson

Theodore Wassell

Major: Mathematics
Minor: Economics

The Fibonacci Numbers and Their Application to Probability

Project Advisor: Anthony Lo Bello

John Watt

Majors: Political Science; Theatre

Theatre of Purpose: How Political Theatre Provides Commentary and Critique to Democracy in India

Project Advisors: Shannan Mattiace; Mark Cosdon

Lauren Wind

Major: Environmental Science
Minors: Chemistry; Spanish

Chronic Nitrogen Inputs Decrease Carbon Enzyme Activity in a Deciduous Northwestern Pennsylvania Forest

Project Advisor: Rich Bowden

Elizabeth Wozniak

Major: Chinese Studies
Minor: Psychology

The Effectiveness of Modern Pictographic Chinese Characters in Conveying Character Meaning

Project Advisors: Carl Olson; Xiaoling Shi

Naomi Young

Majors: Political Science; Philosophy

The Perils of Trailblazing Same-Sex Marriage in the Law: A Case Study in Non-Humanist Jurisprudence

Project Advisors: Brian Harward; Eric Boynton

Annabel Zinn

Major: History
Minor: French

American Protestantism and Commercial Culture: Friends or Foes?

Project Advisor: Patrick Jackson

SENIOR PROJECTS IN ART

The Department of Art recognizes the following graduating students for their outstanding senior projects, which are currently on display in the Bowman-Penelec-Megahan Art Galleries:

Jaysa Alvarez

Natalie Bensel

Jasmine Davis

Ziania Narvaez-Garcia

Brooke Osborne

Joseph Phelps

Greg Singer

Sachika Yamaguchi

The SENIOR PROJECT

HISTORY

Since the College's first commencement in 1821, Allegheny students have showcased their exceptional academic achievements through a senior capstone experience of one kind or another. At times it involved an oral defense, at others a written thesis. The notion of a written Senior Project coupled with a comprehensive oral examination first appeared in the 1942 College Catalogue. In the 1970s, oral examinations shifted from a general defense of disciplinary expertise to a more focused verbal presentation of the Senior Project findings.

PREPARATION

The Senior Project provides students with an opportunity to integrate discipline-specific scholarship with the communication and research skills necessary for professionals in the 21st century. During their first year at Allegheny, students write, speak, and research frequently in their first-year seminars. By the sophomore year they are ready to undertake the complexities of writing and speaking in a specific discipline. They further hone these disciplinary communication skills in a junior seminar, the final preparatory phase for the Senior Project. By the senior year students are sufficiently prepared to undertake a scholarly endeavor approximating those experiences they will face as professionals in their field.

REALIZATION

The culminating experiences of the Senior Project are as varied as the disciplines that produce them, from recitals, performances, and exhibits to written and oral presentations on laboratory research. Many illustrate unusual combinations of disciplines, interests and skills. The Senior Project Celebration offers an open forum for students to present their projects, allowing seniors to refine their skills in presenting to a broad audience and share ideas with other students and the campus community.