

ALLEGHENY COLLEGE

Research Symposium

JULY 18, 2014

WIC- Women, Infants, and Children

Haylee Andrews

Pittsburgh, PA

Major: Neuroscience • Minor: Global Health Studies

RESEARCH MENTOR: Caryl Waggett (Environmental Science and Global Health Studies) and Lorie Darcangelo (Meadville - WIC)

FUNDING: Howard Hughes Medical Institute (Global Health Program)

An Evaluation of Oxidative Stress-Related Enzymes in *Haemophilus ducreyi*

Michael Arcieri

York, PA

Major: Biochemistry • Minor: Undecided

Grace Flowers

Oakmont, PA

Major: Biology • Minor: Psychology

RESEARCH MENTOR: Tricia Humphreys (Biology, Biochemistry, Global Health Studies)

FUNDING: Richard J. Cook and Teresa M. Lahti Student-Faculty Research Endowment

Growth in Africa: Another False Start or a Sustainable Path to Development?

Mackenzie Bluedorn

Pittsburgh, PA

Major: Economics • Minor: German

RESEARCH MENTOR: Steven Onyeiwu (Economics)

FUNDING: Howard Hughes Medical Institute (Global Health Program)

Assessing Food Security Using NEMS-S in the Consumer and Community Nutrition Environment in Meadville, PA

Alyssa Brindle

Denville, NJ

Major: Global Health Studies • Minor: Psychology

RESEARCH MENTOR: Caryl Waggett (Environmental Science and Global Health Studies)

FUNDING: MARC Wellness Center Project

Male Earwig Reproductive Anatomy: A Sperm's Journey

Samantha Catalano

Meadville, PA

Major: Neuroscience • Minor: Spanish

Laura Holesh

Gibsonia, PA

Major: Neuroscience • Minor: Biology

RESEARCH MENTOR: Susan Rankin (Biology)

FUNDING: Howard Hughes Medical Institute (Global Health Program)

Thermal Effects on Jumping Kinematics in Plethodontid Salamanders

Eric Conners

Bridgeville, PA

Major: Biology • Minor: Psychology

RESEARCH MENTOR: Lisa Whitenack (Biology)

FUNDING: Edward David Class of 1961 Faculty Support Fund

continued

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Shocking Revelations: The Performance of Electricity

Stephanie Engel

Fort Worth, TX

Major: Theatre • Minor: History

Nathaniel Freed

Stoneboro, PA

Major: Mathematics • Minor: Latin

RESEARCH MENTOR: Beth Watkins (Communication Arts/Theatre)

FUNDING: The Andrew W. Mellon Foundation Grant for Collaborative Undergraduate Research in the Humanities at Allegheny College

The Impacts of Acid Rain Simulation on Insects

Heather Fish

Albuquerque, NM

Major: Environmental Studies • Minor: Values, Ethics, Social Action

RESEARCH MENTOR: Beth Choate (Environmental Sciences)

FUNDING: Edward David Class of 1961 Faculty Support Fund

NW PA Heritage Project

Brennen French

Albion, MI

Major: Art • Minor: Undecided

RESEARCH MENTOR: Amelia Carr (Art)

FUNDING: The Andrew W. Mellon Foundation Grant for Collaborative Undergraduate Research in the Humanities at Allegheny College

The 50 State Quarters Program®: What You See Isn't Necessarily What You Get

Dalton Johnson

Franklin, PA

Major: History • Minor: Philosophy

Zachary Palmer

Waterford, PA

Major: History • Minor: French

RESEARCH MENTOR: Ian Binnington (History)

FUNDING: The Andrew W. Mellon Foundation Grant for Collaborative Undergraduate Research in the Humanities at Allegheny College

Additions to the Chemistry Curriculum

Justin Jurczyk

Pittsburgh, PA

Major: Chemistry • Minor: Undecided

RESEARCH MENTOR: Timothy Chapp (Chemistry)

FUNDING: Thomas Lord Charitable Trust

Alfred Vail and the Telegraph Industry

Scott Meltzer

Radnor, PA

Major: Economics • Minor: Computer Science

RESEARCH MENTOR: Tomas Nonnenmacher (Economics)

FUNDING: Edward David Class of 1961 Faculty Support Fund

Study Abroad

Karina Mena

Portland, OR

Major: Communication Arts • Minor: Latin & Caribbean Studies

Alexander Bennett

Sharon, MA

Major: English • Minor: History

RESEARCH MENTOR: Ishita Sinha Roy (Communication Arts)

FUNDING: The Andrew W. Mellon Foundation Grant for Collaborative Undergraduate Research in the Humanities at Allegheny College

Seeing Isn't the Only Way To Believe: An Investigation of Haptic and Visual Perception of 2-D Symmetry

Trista Musich

Girard, PA

Major: Neuroscience and Psychology • Minor: Undecided

RESEARCH MENTOR: Allison Connell Pensky (Psychology and Neuroscience)

FUNDING: Christine Scott Nelson Faculty Support Fund

continued

Short-term visual deprivation and visual imagery may predict cross-modal perception of three-dimensional objects

Chris Patrick

Fairfax, VA

Major: Neuroscience • Minor: Economics

RESEARCH MENTOR: Allison Connell Pensky (Psychology and Neuroscience)

FUNDING: Edward David Class of 1961 Faculty Support Fund

From Philadelphia to Dallas In Twenty Years: Exploring AIDS Narratives in Major Motion Pictures

Monica Patrick

Salem, OH

Major: Global Health Studies • Minor: Undecided

Sydney Sample

Corry, PA

Major: English • Minor: Undecided

RESEARCH MENTOR: Jennie Votava (English)

FUNDING: The Andrew W. Mellon Foundation Grant for Collaborative Undergraduate Research in the Humanities at Allegheny College

Influence of Angle Strain on the CH/ π interaction: A Systematic Study Using the Wilcox Torsion Balance

Jacob Patterson

Wexford, PA

Major: Chemistry • Minor: Political Science

RESEARCH MENTOR: Mark R. Ams (Chemistry)

FUNDING: Richard J. Cook and Teresa M. Lahti Student-Faculty Research Endowment; Research Corporation for Scientific Advancement Grant

The Economics Behind the Erie Extension Canal

Patrick Payne

Sewickley, PA

Major: Economics • Minor: Philosophy

RESEARCH MENTOR: Tomas Nonnenmacher (Economics)

FUNDING: Economics Department: Fund provided by Chris Allison

A New Combination of a Frustrated Lewis Pair

Alexander Porter

Sayre, PA

Major: Chemistry • Minor: Economics

RESEARCH MENTOR: Timothy Chapp (Chemistry)

FUNDING: Thomas Lord Charitable Trust

Visual Mediation in the Haptic Perception of Common and Uncommon Objects

Amelia Redding

Cranberry Township, PA

Major: Neuroscience and Biology • Minor: Economics

RESEARCH MENTOR: Allison Connell Pensky (Psychology and Neuroscience)

FUNDING: Dr. Barbara Lotze Student-Faculty Research Fellowship Fund

Everyday Precarity: Digital Media and Identity in the Rust Belt

Rochelle Rogalski

Cranberry Township, PA

Major/Minor: Undeclared

Erin Brockett

Albion, PA

Major: Communication Arts • Minor: Psychology

RESEARCH MENTOR: Emily Yochim (Communication Arts)

FUNDING: The Andrew W. Mellon Foundation Grant for Collaborative Undergraduate Research in the Humanities at Allegheny College

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Healthy Homes—Healthy Children: Striving To Make All Homes in Pennsylvania Healthy Homes

Karina Sarver

Irwin, PA

Major: Biology • Minor: English

Jillian Gallatin

South Park, PA

Major: Biology • Minor: Psychology

Katelyn Nicewander

Hollidaysburg, PA

Major: Neuroscience • Minor: Political Science

RESEARCH MENTOR: Caryl Waggett (Environmental Sciences and Global Health Studies)

FUNDING: Howard Hughes Medical Institute (Global Health Program)

Meadville Community Health Perceptions

Elizabeth Schafer

Twinsburg, OH

Major: Global Health Studies • Minor: Undecided

Mary Nagel

Sewickley, PA

Majors: Global Health Studies & Economics • Minor: Undecided

RESEARCH MENTOR: Rebecca Dawson (Global Health Studies and Biology)

FUNDING: MARC Wellness Center Project (Elizabeth)
Meadville Medical Center (Mary)

Arabic and Hebraic Medicinal and Magical Remedies for the Sexual Body: Philosophy, Function, and Influence

Dejana Smajic

Pittsburgh, PA

Major: English • Minor: History

RESEARCH MENTOR: Jennifer Hellwarth (English and Women's Studies)

FUNDING: The Andrew W. Mellon Foundation Grant for Collaborative Undergraduate Research in the Humanities at Allegheny College

Boolean Networks for Environmental Monitoring in Multi-Robot Systems

Willem Yarbrough

San Francisco, CA

Major: Computer Science • Minor: Philosophy

RESEARCH MENTOR: Janyl Jumadinova (Computer Science)

FUNDING: Harold M. State Research Grant