Students have experienced significant summer learning and research opportunities through the Allegheny College faculty and the Allegheny College Center for Experiential Learning (ACCEL). During the 2009 summer:

- 96 students participated in five credit-bearing travel seminars
- 20 students participated in ACCEL-sponsored internships in Washington, D.C.
- 32 pre-health students and 2 pre-legal students participated in shadowing experiences
- 35 students worked in non-profit organizations in Meadville
- 4 students worked in other parts of the world through the Bonner and Davies Leader programs
- 6 students worked for an intensive week of service with the college chapter of Habitat for Humanity
- 68 students participated in the annual week-long Collegiate Leadership Conference
- 70 students and organizations received funding for experiential learning experiences—internships, research, and shadowing

The outstanding students selected to present today were nominated by faculty and administrators involved in summer learning programs. Creating opportunities for students to give back to communities near and far is foundational to the College’s philosophy. ACCELebration, Summer Learning, and the Summer Research Symposium all afford these students the chance to publicly share what they learned and a wonderful opportunity to give back to the Allegheny College community.
**Oral Presentations**

11 a.m.
Campus Center 301/302

**Tinamaria Colaizzi**  
Beijing, Shanghai, Hong Kong, China’s Global Cities  
EL Study Tour

**Sylvia Kauffman**  
Unit for Sight Global Impact Fellow  
Orissa, India

**Matthew Kaunert**  
Herpetological Internship  
University of Florida

**Julia Rozewicz**  
Achieving Sustainable Development in Northern Europe  
EL Study Tour

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**Summer Research Poster Presentations**

10 a.m. – Noon  
Campus Center Second Floor

**Sandra Wayman, Alessandra Trunzo, Taylor Weiss**  
The Secret Underground Life of Switchgrass: Exploring Belowground Processes  
Research Site: Allegheny College/Ernst Conservation Seeds  
Mentor: Richard Bowden  
Major/Minor of first author: Environmental Science/Music Performance (pipe organ)  
Funding: Allegheny College Center for Economic and Environmental Development (CEED)

**Ryan Brindle, Amy Kimicata, Catie Vance, Lenny Constantini, Dave Domachowski**  
Daytime Sleep Does Not Influence Cardiovascular Reactivity to Stress  
Research Site: Allegheny College  
Mentor: Sarah Conklin  
Major/Minor of first author: Psychology/Environmental Studies

**Emily Thornton**  
Effects of Climate Variation on Nutrients Cycling by *Limnephilus externus* caddisfly larvae  
Research Site: Rocky Mountain Biological Laboratory, Gothic, CO  
Mentor: Scott Wissinger  
Major/Minor of first author: Environmental Science/Studio Art  
Funding: Harold M. State Fellowship

**Ali Trunzo**  
Forest Education for High School Students  
Research Site: Allegheny College  
Mentor: Richard Bowden  
Major/Minor of first author: Environmental Studies/Biology  
Funding: Rees Foundation, WRCP

**Leonard Constantini, Dave Domachowski, Ryan Brindle, Amy Kimicata, Catie Vance**  
Self-Reported Sleep Quality and Daytime Sleep Architecture in College Students is Related to Neuroticism  
Research Site: Allegheny College  
Mentor: Sarah Conklin  
Major/Minor of first author: Psychology/Biology  
Funding: FIPSE Endowed Fund, Shanbrom Fund

**Brendan O’Leary, Sam Elliot, Andrew Pleifer**  
Meadville Greenhouse Gas Inventory  
Research Site: Meadville Municipality  
Mentor: Jennifer DeHart  
Major/Minor of first author: Environmental Science  
Funding: Greenhouse Gas Pilot Grant

**Catherine Vance, Leonard Constantini, Dave Domachowski, Ryan Brindle, Amy Kimicata**  
Exercise is related to daytime sleep architecture, but not self-reported sleep quality, in young adults  
Research Site: Allegheny College  
Mentor: Sarah Conklin  
Major/Minor of first author: Biology/Neuroscience  
Funding: FIPSE Endowed Fund, Shanbrom Fund

**Jessica Kenemuth, Allison Hensler**  
Investigating the Transduction Pathways of Odorants and Olfactory CO2 in Mice  
Research Site: Allegheny College  
Mentor: E. Lee Coates  
Major/Minor of first author: Neuroscience/History; Biology/Spanish  
Funding: Shanbrom Fund

**Andrea Charbonnel**  
The Impact of Azo-Dyes on Complex Fluids  
Research Site: Research Institute for Solid State Physics and Optics, Budapest, Hungary  
Mentors: Istvan Janossy, David Statman  
Major/Minor of first author: Physics/History  
Funding: National Science Foundation

**Brandi Kautz, Mark Bordo**  
Electroconvection  
Research Site: Research Institute for Solid State Physics and Optics, Budapest, Hungary  
Mentor: David Statman  
Major/Minor of first author: Environmental Studies and Physics/Studio Art  
Funding: National Science Foundation
Sarah Wilhelm
Internship with the Board of Health
Research Site: Mahoning County Board of Health
Mentor: Mary Helen Smith
Major/Minor of first author: Environmental Science

LeAnne Kurela, April Johnston, Vaishali Satpute, Ludovic Tricoire, Chris McBain, David Poulsen, J. Josh Lawrence
Laminar, neurochemical, and electrophysiological evaluation of GAD65 GFP adeno-associated virus (AAV) specificity in mouse
Research Site: The University of Montana- Missoula Center for Structural and Functional Neuroscience (CSFN)
Mentor: J. Josh Lawrence
Major/Minor of first author: Economics/Neuroscience
Funding: National Institute of Health

Noah R. Snyder
EPR Characterization of Manganese (II) Containing Superoxide Dimutase II Mimics
Research Site: Allegheny College
Mentor: Doros Petasis
Major/Minor of first author: Biochemistry and Neuroscience/Chinese and Physics
Funding: Shanbrom Fund

Rachel Stamateris, Charles A. Ettensohn
The Role of Wnt Signaling Components in Polarized Degradation of β-catenin in the Sea Urchin Embryo (Strongylocentrotus purpuratus)
Research Site: Carnegie Mellon University
Mentor: Charles A. Ettensohn
Major/Minor of first author: Biochemistry/Economics
Funding: National Science Foundation

Gail Raspani, Chris Wagner, Kaitlyn Huser, Melissa Millerschoen
Healthy Homes- Healthy Children
Research Site: Crawford County
Mentor: Caryl Waggett
Major/Minor of first author: Environmental Science/Art History
Funding: Shanbrom Fund

Daniel Paul, Ernest Smith, Jonathan Cumming
Zinc Induced Oxidative Stress Responses in Hybrid Poplars
Research Site: West Virginia University
Mentor: Jonathan Cumming
Major/Minor of first author: Philosophy/Biology and Environmental Studies
Funding: DOE, National Science Foundation

Michelle Williams; Charles C. Hong, M.D., PhD; Jijun Hao, Ph.D.; Kaleh Karim; Joshua Ho
Inhibition of Hedgehog Signaling In Development and Cancer
Research Site: Vanderbilt
Mentor: Charles C. Hong
Major/Minor of first author: undecided
Funding: National Institute of Health, Vanderbilt University

Stephen Shinsky
Auxin uptake effects on the kinetics of the auxin inducible GH3 promoter
Research Site: Allegheny College
Mentor: Catharina Coenen
Major/Minor of first author: Biology/Political Science
Funding: Shanbrom Fund

John Milligan
Diels-Alder Reactivity of a Novel Phenylsulfonylfuran
Research Site: Allegheny College
Mentor: S. Shaun Murphree
Major/Minor of first author: Chemistry/Communication Arts
Funding: Shanbrom Fund

Shane Downing
Past to present: Comparing microfossils from two locations on the California coast to understand ocean acidification
Research Site: Bodega Marine Laboratory
Mentor: Tessa Hill
Major/Minor of first author: Biology/Religious Studies
Funding: National Science Foundation

Eric Winter, Z. Fowler, W. Peterjohn
Will adding more nitrogen sequester more carbon in young forests of central Appalachia?
Research Site: Fernow Experimental Forest
Mentors: Zack Fowler, William Peterjohn
Major/Minor of first author: Environmental Science/Studio Arts
Funding: National Science Foundation

Hillary Bedell, Talha S. Siddiqui, Marc A. Walters
Cross-linking Carboxylic Acid Ligands to Synthesize Organic Nanoparticles
Research Site: New York University
Major/Minor of first author: Biology/Environmental Health
Funding: National Science Foundation

Emma Cook, Liz Duhan, Chriissy Wusylko
Shadybrook Park Revitalization
Research Site: Shadybrook Park, Meadville, PA
Mentor: Amara Geffen
Major/Minor of first author: Environmental Science/Studio Art
Funding: Arts and Environmental Initiative Funding

Radu Creanga
Points of Interest Along the Santa Fe Ant Trail
Mentor: Bob Roos
Major/Minor of first author: Computer Science/Economics
Funding: Computer Science Department

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