Students have participated in important summer learning and research opportunities thanks to the hard work and support of the Allegheny College faculty and the Allegheny College Center for Experiential Learning (ACCEL).

During the summer of 2012:

- 113 students participated in five credit-bearing Experiential Learning (EL) seminars
- 21 students participated in ACCEL-sponsored internships in Washington, D.C.
- Students interested in the health professions were involved in various programs:
  - 17 EL Health Care Term participants
  - 16 Preceptorship participants
  - 38 Health Coaches trained
  - 22 Meadville Medical Center volunteers
  - 18 CNAs trained
  - 5 pre-law students participated in shadowing experiences
  - 35 students worked in non-profit organizations in Meadville through the Bonner and Davies Leader programs
  - 13 students worked with national and international community partners through the Bonner program
  - 69 students participated in the annual weeklong Collegiate Leadership Conference
  - 96 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 have learned as well as a wonderful opportunity to give back to the Allegheny College community.
**SUMMER RESEARCH POSTER PRESENTATIONS**

**Family Weekend (Oct 20th, 2012)**

**Campus Center Second Floor**

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**Ashley Baronne**
**Balancing Eating and Movement in Meadville, Passport to a Healthier You**
*Project Site: Allegheny College/Meadville Community*
*Mentor: Cary Waggett*
*Majors/Minors: Biology/Environmental Public Health*
*Funding: Fahrer Fund for Community Engagement*

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**Erin Brown, Jessica Jeroski, Miryam Gonzalez**
**The Effect of Contact Angle on the Interaction of Water with a Hydrophobic Surface**
*Project Site: Allegheny College*
*Mentors: Adele Poynor*
*Majors/Minors of first author: Physics and Chemistry double major*
*Funding: McCune Fund for Student Research*

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**Bryan Chavez, Sara Majetic, Ryan Booth**
**High Frequency Permeability of Iron Oxide Nanoparticle Assemblies**
*Project Site: Carnegie Mellon University*
*Mentors: Sara Majetic and Ryan Booth*
*Majors/Minors of first author: Physics/Religious Studies*
*Funding: National Science Foundation-REU Program*

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**Colleen Friel, Catharina Coenen**
**Auxin Effects on Root Exudation**
*Project Site: Allegheny College*
*Mentors: Catharina Coenen*
*Majors/Minors of first author: Biochemistry/Economics*
*Funding: Research Fellowship from American Society of Plant Biologists*

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**Jessica Giles and Linnea Homa**
**The Expression of Various Genes Involved in Apoptosis of the IRBP -/- Mus musculus**
*Project Site: Allegheny College*
*Mentors: Christy Donmoyer*
*Majors/Minors of first author: Biology/Dance and Movement Studies*
*Funding: Shanbrom Student Research Fund (Giles), McCune Fund for Student Research (Homa)*

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**Maggie Hanafin**
**Effect of Trophic Status on Unionid Mussels in the Outlets of the 11 Finger Lakes**
*Project Sites: Finger Lakes, NY/Allegheny College*
*Mentors: Scott Wassinger and Milton Ostrofsky*
*Majors/Minors of first author: Environmental Science/Spanish*
*Funding: Class of 1939 Student Research Fund*

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**Bryan Chavez, Sara Majetic, Ryan Booth**
**High Frequency Permeability of Iron Oxide Nanoparticle Assemblies**
*Project Site: Carnegie Mellon University*
*Mentors: Sara Majetic and Ryan Booth*
*Majors/Minors of first author: Physics and Chemistry double major*
*Funding: McCune Fund for Student Research*

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**Auxin Effects on Root Exudation**
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*Majors/Minors of first author: Environmental Science/Spanish*
*Funding: Class of 1939 Student Research Fund*

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**Blair Hartman, Brian Thummler, Anne Maglione, Dan Winston, Lee Scandarino, Bolatito Aderembibola, Kevin Van Develde**
**Devising in the Dirt: The Process of Playing Dirty**
*Project Site: Vukovich Center/Allegheny College*
*Mentors: Beth Watkins*
*Majors/Minors of first author: Theatre/Political Science*
*Funding: National Endowment of the Humanities Fund*

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**Taylor Hinton, Katie Darby**
**Knowledge Acquisition and Edible Gardening Among Low-Income Households In Meadville, PA**
*Project Site: Allegheny College/Meadville Community*
*Mentor: Katie Darby*
*Majors/Minors of first author: Environmental Studies/English*
*Funding: Fahrer Fund for Community Engagement*

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**Matt Kelley, Sharon Vesoky, Laura Quin**
**The Soil and the World: Marxist and Buddhist Conceptions of the Conditioned Soil**
*Project Site: Allegheny College*
*Mentor: Sharon Vesoky*
*Majors/Minors of first author: Political Science/Philosophy*
*Funding: National Endowment of the Humanities Fund*

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**Dylan D. McCreary, Lauren B. French**
**Trafficking of the BK Channel by the Beta-4 Subunit: Defining a Protocol**
*Project Site: Allegheny College*
*Mentor: Lauren French*
*Majors/Minors of first author: Neuroscience and Psychology double major*
*Funding: Shanbrom Student and Faculty Research Fund*

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**Allison Nettin, Dan Bauer**
**Digital Domesticity: Mothers, Women’s Work, and New Media**
*Project Site: Allegheny College*
*Mentors: Emily Yochim and Julie Wilson*
*Majors/Minors of first author: English/Black Studies*
*Funding: National Endowment of the Humanities Fund*

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**Hannah Phillips**
**Comparing Neural Pathways in Autistic and Non-Autistic Rats: Use of Fluorescent Anterograde and Retrograde Tracers**
*Project Site: Allegheny College*
*Mentor: Jeff Cross*
*Majors/Minors of first author: Neuroscience/Music Performance*
*Funding: Shanbrom Student and Faculty Research Fund*

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**Nicholas Romano, Tamás Börzsönyi, Balázs Szabó**
**Orientalional Order and Alignment of Discotic Particles Induced by Shear**
*Project Site: Hungarian Academy of the Sciences, Budapest, Hungary*
*Mentor: David Statman*
*Majors/Minors of first author: Physics/Math and Political Science*
*Funding: National Science Foundation*

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**Maria Sacks, Nádor Eber, Péter Salamon**
**Observation of Pattern Formation on SCB under AC and DC Electroconvection**
*Project Site: Hungarian Academy of the Sciences, Budapest, Hungary*
*Mentor: David Statman*
*Majors/Minors of first author: Physics/Philosophy*
*Funding: National Science Foundation*

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**Kelly Smith, Lauren French**
**Snail Venom and Drug Development**
*Project Site: Allegheny College*
*Mentor: Lauren French*
*Majors/Minors of first author: Neuroscience/Religious Studies*
*Funding: Richard J. Cook and Teresa M. Lahti Student-Faculty Research Endowment*

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**Rachel Stegmann, Alice Deckert, Jackie Sikora, Britanny Rauzan**
**The Kinetics of RNA/DNA Duplexing**
*Project Site: Allegheny College*
*Mentor: Alice Deckert*
*Majors/Minors of first author: Biochemistry/Math and Dance*
*Funding: Richard J. Cook and Teresa M. Lahti Student-Faculty Research Endowment*

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**Gabrielle Stilt**
**Customer Satisfaction: Fan Power and Corporate Structure**
*Project Site: Allegheny College*
*Mentor: Inhita Sinha Ray*
*Majors/Minors of first author: Creative Writing/Philosophy*
*Funding: National Endowment of the Humanities Fund*

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**Keiron Stoddart, Doros Petasis, Codi Sanders, Kim Dunbar**
**EPR Studies of the Spin Crossover Characteristics of Trigonal Biapyramidal Metal Clusters**
*Project Site: Allegheny College*
*Mentors: Doros Petasis*
*Majors/Minors of first author: Physics/Economics*
*Funding: Harold M. State Research Fellowship*

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**Brianne Zins, Istvon Janossy**
**Light Induced Birefringence in Nematic Liquid Crystals**
*Project Site: KFKI Research Institute for Particle and Nuclear Physics, Budapest, Hungary*
*Mentor: David Statman*
*Majors/Minors of first author: Physics and English double major*
*Funding: National Science Foundation*

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**Stop by to chat with members of the staff from the Allegheny College Center for Experiential Learning to learn about the services, programs or opportunities available through the ACCEL office. Additionally, gather information about the ACCEL Travel Seminars that will be available for May, 2013 and meet the faculty involved in those trips.**

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**EXPERIENTIAL LEARNING TRAVEL SEMINARS AND ACCEL INFORMATION TABLE**

10:30 a.m. - Noon

**Campus Center Second Floor**