College Senate Committee on Research Annual Report 2011-2012
Submitted May 7, 2012

Committee members: Thomas Beal and Kelly Gallagher (co-chairs),
Jacqueline Bennett, Mette Harder, Jen-Ting Wang
Student members: Michelle Johnson, Christine Merton
Ex-officio member: Kathy Meeker (Grants Development Office)

The main objective of the Committee on Research is to encourage student research and creative activity on campus and to enhance that aspect of the educational mission of the College. The Committee sponsors the Student Grant Program for Research and Creative Activity, and supports Student Research and Creative Activity (SRCA) Day. In addition, the Committee is serving in an advisory capacity in the review of applications to the Vibrant Community Grant Program (sponsored by the Center for Economic and Community Development).

This year, the Committee awarded a total of $46,817 in grants to support 39 student projects. Ten percent of allocated funds were awarded to graduate students, in keeping with program guidelines set forth by the College at Oneonta Foundation, Inc. A total of $44,000 was committed to the Student Grant Program for 2011/12 by the College Foundation ($41,000) and the Alumni Association ($3,000). In addition, this year the Program benefitted from $3,750 in additional monies from an endowed fund established by alumnus Dr. Jeffrey Saal and Mrs. Jeannette Saal in honor of Dr. Gary Holway, Emeritus Professor of Biology. Successful proposals came from a wide variety of disciplines, ranging from creative projects in theatre and fashion, to research projects in both the hard and social sciences, to some very exciting interdisciplinary projects. A full listing of funded projects is included in Appendix I of this report.

The Committee has recommended several amendments to the Student Grant proposal process in response to a number of issues that arose this year; announcements are posted on the Committee web site: http://www.oneonta.edu/academics/frc/default.asp

The SRCA Day program has continued to grow. This year (2012), there were 218 student participants (13% more than 2011) involved in 122 projects (a 23% increase) with 70 faculty sponsors (a 16% increase). Prior to the Day’s program, faculty sponsors nominated students for the second annual College at Oneonta Foundation Awards for Excellence in Student Research & Creative Activity. Finalists were selected by a group of faculty and staff that included members of the Research Committee, and awardees were chosen by a panel of judges that included representatives of the Alumni Association and the College Foundation. Awardees and finalists will be honored at a luncheon reception (sponsored by the Grants Development Office and the Faculty Convivium Committee) on May 9; awardees will also make brief presentations. Awardees and finalist are listed in Appendix II.

In addition to its activities as part of the Student Grant Program and SRCA Day, the Committee plays an advisory role to the Senate regarding issues related to faculty and student research. The Committee submitted its recommendations on the proposed Center for Academic Excellence during the fall semester, and will shortly be submitting our recommendations on the proposed “Responsible Conduct in Research” policy. The complete text of both reports is also available on the Committee on Research website.
APPENDIX I

2011/12 Student Grant Program Award Recipients

**Fall 2011 Review:**

**Melanie Boehmer:** *Effect of weight status and exercise habits on resting heart rate in college-aged adults* ($800) / Faculty Sponsor: Kirsten Hilpert (Human Ecology)

**Elizabeth Castle:** *The effects of elevation on levels of asexual reproduction in Sphagnum fuscum* ($1,500) / Faculty Sponsor: Sean Robinson (Biology)

**Sing Chung Z. Chiu:** *Building a mobile three-dimensional scanner system using Kinect and Roomba* ($1,035) / Faculty Sponsor: Sen Zhang (Mathematics, Computer Science & Statistics)

**Andrew Daigler:** *Description of a new tapeworm species from the Dwarf Whipray of Borneo* ($970) / Faculty Sponsor: Florian Reyda (Biology)

**Mollie Goodwin:** *Gene flow and population sustainability of a native bee species in Otsego County, NY* ($1,500) / Faculty Sponsor: Jeffrey Heilveil (Biology)

**Shawn Grove:** *Red and green make yellow: A colorful approach to analyzing protein-protein interactions* ($1,500) / Faculty Sponsor: Nancy Bachman (Biology)

**Blair Hanson, Lauren Shore:** *Curcumin: Glucose uptake and lactate release in adipocytes* ($1,406) / Faculty Sponsor: Allan Green (Chemistry & Biochemistry)

**Molly Hassett:** *Grazing on the native Orange jewelweed (Impatiens capensis) and effects on the exotic Garlic mustard (Alliaria petiolata)* ($1,400) / Faculty Sponsor: Jennifer Withington (Biology)

**Marcello Iaboni, Shelby Zemken, Erin Potter:** *Composting and waste classification at SUNY College at Oneonta* ($1,254) / Faculty Sponsor: Gina Keel (Political Science)

**Carrie Jackson:** *Examination of Alden Room math textbooks* ($1,500) / Faculty Sponsor: Toke Knudsen (Mathematics, Computer Science & Statistics)

**Chelsea Krieg:** *Interpreting the geologic history of undifferentiated metasediments on Matinicus Island, ME* ($1,120) / Faculty Sponsor: Martha Growdon (Earth & Atmospheric Sciences)

**Michael Lindquist:** *An examination of the Knobe Effect across different demographics* ($620) / Faculty Sponsors: Christopher Keegan (Philosophy) and Michael Brown (Psychology)

**Duncan MacCrea:** *Biomineralization of gold* ($1,479) / Faculty Sponsors: Keith Brunstad (Earth & Atmospheric Sciences) and Frederick Zalatan (Biology)

**Christiana Marron, Christina Craft:** *Effects of wheat grass juice on blood oxygenation during exercise* ($950) / Faculty Sponsor: Keith Schell (Biology)

**Nicole Mihou, Megan Record:** *Synthesis of photochromic salicylidene anilines and the development of a green purification process for liquid products* ($1,136) / Faculty Sponsor: Jacqueline Bennett (Chemistry & Biochemistry)

**Mary Nardella, Elizabeth Frawley:** *Gender stereotypes, sexism, and homophobia* ($800) / Faculty Sponsor: Charlene Christie (Psychology)

**Colleen Parker, Myles Moore, Stephen Dechon:** *Mercury testing in Central New York* ($1,496) / Faculty Sponsor: Devin Castendyk (Earth & Atmospheric Sciences)

**Sean Perez:** *Interaction of heat shock factor 1 with p53 under genotoxic conditions* ($1,285) / Faculty Sponsor: Nancy Bachman (Biology)

**Julianne Pettine:** *Birth control pressures from service providers on low-income clients* ($740) / Faculty Sponsor: Elizabeth Seale (Sociology)
Mary Margaret Pipher: Biomineralization of mine waste ($1,485) / Faculty Sponsors: Keith Brunstad (Earth & Atmospheric Sciences) and Frederick Zalatan (Biology)

Erin Potter: Assessing the impact of air mass frequency on major flood events in the Susquehanna River Basin ($454) / Faculty Sponsor: Melissa Godek (Earth & Atmospheric Sciences)

Susan Robinson: Franklin base-line water project ($1,500) / Faculty Sponsor: Devin Castendyk (Earth & Atmospheric Sciences)

William Rothwell: Examining the correlation between self-perceived social class and bullying ($649) / Faculty Sponsor: Jennifer Schlosser (Sociology)

Joanna Salvino: Post-Hurricane Irene effects on gene flow patterns in an aquatic insect ($1,498) / Faculty Sponsor: Jeffrey Heilveil (Biology)

Alexander Soroka: Efficacy of the New York native Arrow Arum, Peltandra virginica, in removing zinc and copper from water ($1,335) / Faculty Sponsor: Thomas Horvath (Biology) Award relinquished

Bruce Wemple, Tara Weber: The Archer: A short comedy ($1,495) / Faculty Sponsor: Nathaniel Bouman (Communication Arts)

Danielle Willsey: Description of a new tapeworm species from the Honeycomb Stingray of Borneo ($1,105) / Faculty Sponsor: Florian Reyda (Biology)

Spring 2012 Review

Carolyn Bunn: Researching Irish Wedding Customs and Dress in the Traditional and Practical Context ($1,500) / Faculty Sponsor: Damayanthie Eluwavalage (Human Ecology)

Cassaundra Conant: Public Relations for the Oneonta Theatre ($1,500) / Faculty Sponsor: Dawn Sohns (Communication Arts)

Erin Hammerle: Inheritance of an allele in the UGT1A1 gene contributing to development of Gilbert’s Syndrome ($851) / Faculty Sponsor: Jeffrey Heilveil (Biology) *

Scott Keefer: Speleogenesis of the secret-Bensons Cave System: Structural or sedimentological control on cave development ($1,500) / Faculty Sponsor: Keith Brunstad (Earth & Atmospheric Sciences)

Sophia Kolankowski: Trampling of bones: How bones are modified based on size, shape, and environmental condition ($1,500) / Faculty Sponsor: Leigh Fall (Earth & Atmospheric Sciences)

Emily Lang: The Othering of Sharon Springs ($971) / Faculty Sponsor: Gretchen Sorin (Cooperstown Graduate Program) *

Diane Mancini: The Raizal: A modern day struggle against cultural imperialism ($1,487) / Faculty Sponsors: Sallie Han (Anthropology) and Maria Montoya (Foreign Languages & Literatures)

Jessica Mayercin: William Murray’s paintings and American family identity in the post-Revolutionary War period ($1,086) / Faculty Sponsor: Cynthia Falk (Cooperstown Graduate Program) *

Randouth Palmer: Utilizing experimental use-wear analysis as an aid for identifying artifact functions at the Pine Lake archaeological site ($735) / Faculty Sponsor: Cynthia Klink (Anthropology)

Joanna Salvino: The effect of man-made dams on peripheral stream-dwelling populations of Nigronia Serricornis (Say) (Megaloptera:Corydalidae) ($1,500) / Faculty Sponsor: Jeff Heilveil (Biology) *

Andrew Tejada, Megan Harrington: Identity play-reading series ($1,500) / Faculty Sponsor: Andrew Kahl (Theatre)

Christopher Teter: Survey for the Hemlock Wooly Adelgid (Adelges tsugae) in Oneonta, New York ($675) / Faculty Sponsor: Thomas Horvath (Biology)

* Graduate student
APPENDIX II

2012 College at Oneonta Foundation Awards for Excellence in Student Research & Creative Activity

AWARDEES

Alyson Marmet / Faculty Mentor: Jacqueline Bennett (Chemistry & Biochemistry)
Quantitative Comparison of the “Greenness” of the Ethyl Lactate Method of Imine Synthesis with Other Published Methods

Danielle Willsey / Faculty Mentor: Florian Reyda (Biology / Biological Field Station)
A New Tapeworm Species from Dasyatis zugei (Pale-edged stingray) from Coastal Malaysian Borneo

Dustin Smith / Faculty Mentor: Kenneth Walters (Psychology)
Predicting College Student Binge Drinking Using the Five-Factor Model

Erin Potter / Faculty Mentor: Melissa Godek (Earth & Atmospheric Sciences)
Assessing the Impact of Air Mass Frequency on Major Flood Events in the Susquehanna River Basin

Christina Craft, Christiana Marron (co-awardees) / Faculty Mentor: Keith Schillo (Biology)
Effects of Wheat Grass Juice on Blood Oxygenation

HONORABLE MENTION

Shing Chung Zeus Chiu / Faculty Mentor: Sen Zhang (Mathematics, Computer Science & Statistics)
Interacting with Hologram Using Kinect

John Eggleston / Faculty Mentor: Jennifer Schlosser
Keeping Secrets: Understanding the Conditions of Sexual Assault Reporting Among College Students

Shawn Grove / Faculty Mentor: Nancy Bachman (Biology)
Red and Green Make Yellow: A Colorful Approach to Analyzing Protein-Protein Interactions

Annelise Muscietta / Faculty Mentor: Martha Growdon (Earth & Atmospheric Sciences)
Geologic History and Correlations of Rock Sequences on Matinicus, Maine

Dylan Nealis / Faculty Mentors: April Harper (History), Gwen Crane (English)
“The Memory of Arthur, That Most Renowned King, Will Endure Forever”: The Establishment of a Legend and the Sanctioning of a Reign

Joseph Stressler / Faculty Mentor: Donna Vogler (Biology)
Cirsium palustre: Distribution Mapping and Spread of a Newly Invasive Thistle

David Laureano, Joseph Milstein, Sean Bower / Faculty Mentor: Narges Kasiri (Management, Marketing & Information Systems)
Contactless Payment Solution for Retailers