



ORONO, MAINE • AY 2016 - 17 • FALL 2016

Program Dates & Deadlines

Table with 2 columns: Program, Dates. Rows include: 2016-17 Academic Yr. Fellowship Proposal Submission, 2016-17 Academic Yr. Fellowship Decision Notifications, 2016-17 Academic Yr. Fellowship Performance Period, 2017 Student Research Symposium Abstract Submission, 2017 Student Research Symposium Decision Notifications, 2017 Summer Fellowship Proposal Submission, 2017 Student Research Symposium Event, Travel Grant Application.

2016-17 Undergraduate Research and Creative Activities Academic Yr. Fellowship CFP

The Center for Undergraduate Research is pleased to announce the Undergraduate Research and Creative Activities Academic Year Fellowship Call for Proposals (CFP). This program supports undergraduate student engagement in faculty-mentored research. Several fellowships will be awarded for the 2016-17 academic year on a competitive basis; the competition is open to all UMaine undergraduate students from all majors. Each fellowship provides up to \$1000.00 support for one student to conduct faculty-mentored research. The CUGR Advisory Committee will review research and creative activities proposals for clarity of objectives, importance to the field, proposed approach, appropriateness of the budget, and indication of the project feasibility.

Eligibility Criteria:

- 1. Any undergraduate student currently enrolled in a degree program at the University of Maine may submit a proposal in consultation with a faculty mentor. Preference will be given to students graduating in or after May 2017.
2. Applicants need to describe the research, placing it in the context of scholarly activities, while presenting in such a way that it is understandable to the reviewers from outside of the applicant's research field.
3. Award Recipients must submit a report including technical and financial data by May 1, 2017 and are expected to present the product of their research at the 8th Annual Student Research Symposium on April 24, 2017.

Link to Apply: http://tinyurl.com/CUGR-AY16-17

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The 2016 Student Research Symposium was held at the Cross Insurance Center, Bangor, ME.



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YouTube:Center4UG_Research@Umaine

CUGR 2016 Summer Fellowship Award Recipients

The center's advisory committee selected five proposals from 19 student submissions to be awarded \$3,000 each during the summer semester.

Antonia Carroll, chemistry, "Carbon Dioxide Fixation Using a Tungsten Oxide Electro-Catalyst," advised by Prof. Brian Frederick;

Chase Gagne, wildlife ecology, "Characterization of Riverine Rock Pools and Effects Influencing their Aquatic Invertebrate Communities," advised by Prof. Hamish Greig;

Trevor Lessard, ecology and environmental science, "Bioelement Accumulation from Marine Life with Possible Effects on Terrestrial Habitat in the Falkland Islands during the Holocene," advised by Prof. Jacquelyn Gill;

Anna Olsen, international affairs, "Urban and Landscape Change in an Ancient Adriatic Settlement: the Ottoman Era," advised by Prof. Gregory Zaro; and

Sarah Rashed, marine biology, "Age Estimation and Stock Composition of Atlantic Bluefin Tuna in the Gulf of Maine," advised by Walter Golet, Ph.D.

Each proposal was reviewed by three judges and scored on clarity, research goals and objectives, importance to the field, timeline, budget and faculty commitment letters. Top proposals were then discussed at a panel before final selection is made.

Responsible and Ethical Conduct of Research

Overview:

The National Institutes of Health (NIH) define 'Responsible and Ethical Conduct of Research' (RCR) as, "the practice of scientific investigation with integrity. . . [involving] the awareness and application of established professional norms and ethical principles in the performance of all activities related to scientific research."

Responsible & Ethical Research Shared values

- Honesty – conveying information truthfully and honoring commitments,
- Accuracy – reporting findings precisely and taking care to avoid errors,
- Efficiency – using resources wisely and avoiding waste, and
- Objectivity – letting the facts speak for themselves; avoiding improper bias.

For more information: umaine.edu/orsp/compliance/responsible-conduct-of-research



Important: Undergraduate Students participating in CUGR Fellowship sponsored research are required to be trained in the *Responsible Conduct of Research*.

Date: Wed. Oct 19, 5:00-8:30 PM
Location: Arthur St. John Hill Auditorium, Barrows Hall

In addition, undergraduate students participating in NSF, NIH and USDA-NIFA sponsored research are required to be trained.

IMPORTANT! Pre-registration is required and students must be accompanied by a mentor (one per 5 students). To register, please complete the [Fall 2016 Undergraduate RCR registration form](#) by 5 p.m. Wednesday, Oct. 12. Please note, registrants will need valid @maine.edu credentials to access the form

Direct questions to Amanda Ashe on FirstClass or call 207.581.1480.



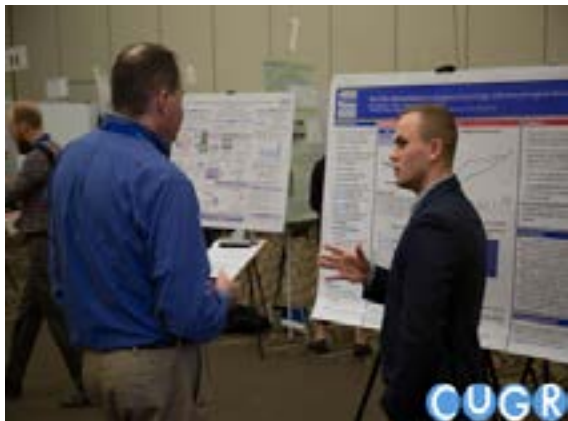
Students, faculty and alumni are encouraged to submit information by contacting Alexandria Jesiolowski, 207-581-3583, CUGR@maine.edu

visit us online at cugr.umaine.edu

The University of Maine does not discriminate on the grounds of race, color, religion, sex, sexual orientation, including transgender status and gender expression, national origin, citizenship status, age, disability, genetic information or veteran status in employment, education, and all other programs and activities. The following person has been designated to handle inquiries regarding nondiscrimination policies: Director, Office of Equal Opportunity, 101 North Stevens Hall, 207.581.1226.

2016 UMaine Student Research Symposium (USRS)

Every spring, UMaine graduate and undergraduate students present their research in academic conference-style events. On April 27th, 2016 over 500 UMaine student presented their research at the first joint graduate and undergraduate UMaine Student Research Symposium. The joint research symposium offered UMaine students opportunities to engage in direct dialogue with people in Maine communities,



including those benefiting from the research. Due to the large scale of hosting a joint event such as this, the planning committee decided to host the event at the Cross Insurance Center in Bangor. Holding the event in a large public venue increased the visibility and accessibility of the research conducted by students at UMaine and allowed students to converse and share ideas with legislators, professionals and community leaders. It also provided an opportunity for

students to interact with those that stand to directly benefit from their research findings. To facilitate this, representatives from State government, industry, research institutions, and local community groups attended and engaged with student presenters, which ultimately increased the publicity of student research at UMaine.

2016 UMaine Student Research Symposium Awards– CUGR Showcase section of the symposium:

Best Exhibit

Morgan Cates, Advised by: Laura Artesani, 'Research and Practicum in Arts Management & Marketing: Managing Producer for School of Performing Arts Fundraiser/University Singers European Tour Coordinator', Management, MBS

1st Place Oral Presentation

Jessica Moore, Brittany Seman, Advised by: Robert Wheeler, 'Infection Dynamics Between a Fungal Pathogen and it's Host', Biochemistry, Microbiology, NSFA

2nd Place Oral Presentation (tie)

James Miller, Magdalena Blaszkiwicz, Caroline Curtis, Raymond Vallejo, Bethany Miles, Brenna Gerchman, Aidan Robichaud, Advised by: Kristy Townsend, 'Impact of Dietary Fat Type and Amount on Metabolic Health', Biology, Minor: Chemistry, CLAS

Monique Theriault, Robert Wheeler, 'Immune Recognition of Candida albicans in zebrafish', Microbiology, NSFA

1st Place Poster

Jacob Morris, Advised by: Howard Patterson, 'New Methods for Enhanced Optical Memory Data Storage', Chemical Engineering, Chemistry, COE

2nd Place Poster

Andrew Hart, Advised by: Robert Gundersen, 'Isolation of the enzyme Protein Acyltransferase', Microbiology, NSFA

3rd Place Poster (tie)

Allyson Eslin, Advised by: Caroline Noblet, 'The Impact of Economic and Psychological Metrics on Political Decision-Making', Political Science, Psychology, Economics, CLAS

Ashley Soucy, Jeanne DuShane, Advised by: Melissa Maginnis, 'Defining the Role of Cellular Ca²⁺ in JCPyV Attachment and Infection', Biochemistry, Microbiology, NSFA

Poster Board & Easel Rentals!

Are you presenting at a conference?

Are you hosting a symposium?

Do you need an easel & poster board?

Co-Sponsored by CUGR and Honors College, every UMaine department or student group can now rent a poster board and easel at a very low cost. For availability, pricing, and other information please contact the CUGR office or submit a request: <http://tinyurl.com/CUGR-Rental>

*Please fill out the rental form at least 2 weeks in advance to guarantee availability.

2016 Symposium News Releases

Bangor Daily News

<http://tinyurl.com/CUGR-BDN1>

<http://tinyurl.com/CUGR-BDN2>

<http://tinyurl.com/CUGR-BDN3>

WLBZ Channel 2

<http://tinyurl.com/CUGR-CH2>

WABI Channel 5

<http://tinyurl.com/CUGR-WABI>

WCSH Channel 6

<http://tinyurl.com/CUGR-CH6>

"You might watch a presentation on how to protect our wild blueberry crops and their pollinators, participate in a heated discussion on how to address challenges of education in a rural state like ours or marvel at high-quality and expressive media exhibits created by students that help maintain and develop the artistic and cultural scene our state is known for."

- Jack McLachlan, Vice President of Graduate Student Government.

Contact Us

5719 Crossland Hall, Suite 207
207-581-3583
CUGR.umaine.edu
CUGR@maine.edu

Registration Now Open for NSF Day!

October 13, 2016

Maine's NSF Day will take place on Thursday, October 13, 2016 at the Cross Insurance Center in Bangor, Maine. Registration is \$35 and includes continental breakfast, lunch, and snacks. Don't miss your opportunity to meet with NSF representatives. [Register now!](#)

NSF Days provide basic insight and instruction on how to compete for NSF funding for science, engineering and education research. This day-long workshop will provide background on the Foundation, its mission, priorities, and budget.



CUGR Announces New UG Student Travel Grant Program

CUGR is pleased to announce a new program designed to help UG students travel to conferences and professional meetings to present their research. This program is intended to help UG students gain soft skills and receive recognition for their hard work. Undergraduate students who are enrolled at a degree program at UMaine and conducting faculty-mentored research are eligible to apply for this travel grant to present their research results at technical conferences or professional meetings. The review process is on a rolling basis and priority will be given to students who have presented at CUGR showcase. Anticipated award amount is \$300-500 per student.

To apply, students must submit an electronic proposal by completing the form ([url to apply directly below](#)).

Student Application Form: <http://goo.gl/forms/oROHnqXQwb>

The Faculty Mentor associated with the student research project must submit a commitment letter ([url to submit directly below](#)).

Faculty Letter Form: <http://goo.gl/forms/v1GWU6YyXv>

CUGR Undergraduate Student Travel Grant Recipients

1. Jesse Clark, Determining an Expected House Majority Using Pattern Analysis, Prof. Richard Powell, Northeastern Political Science Association's 2015 Conference
2. Shannon O'Neil and Margaret Pierce, Families Raising Children with Disabilities: Concerns and Advice, Prof. Nancy Hall, Annual American Speech-Language-Hearing Association Convention
3. Joseph Garcia, Effects of long-range interactions in the one-dimensional Sznajd model, Prof. Susan McKay, American Physical Society March Meeting
4. Harold Stewart III, Bridging Town-Gown Divides Through Collaboration and Undergraduate Research, Prof. Robert Glover, National Collegiate Research Conference
5. Haleigh Moran and Katrina Ogden, Depression and Adolescent Violence: Making Sense of Inconsistent Findings, Prof. Steven Barkan, ASA Honors Program

UMaine History Club Undergraduates: Field Trip to the Maine State Archives in Augusta!

April 6th, 2016 members of the UMaine History Club visited Augusta to see exhibits on display at the Cultural Building. UMaine students enjoyed the Maine Labor History Mural in the atrium, illustrating Maine's rich heritage in labor history, as well as touring the Maine State Museum specifically enjoying the exhibits on the state's natural resource industries, including lumbering, fishing, ship building, and granite quarrying. The students were intrigued by the "Back to Nature" exhibit that showed stunning tourmaline crystals from Mount Mica in Oxford County. They were surprised to learn about the tragedy of Malaga Island, home to mixed-heritage families that were evicted by Maine in 1912.



"EXHIBIT" (FROM LEFT TO RIGHT):

TOM HASTINS, MARY ELLEN BLODGETT, SARAH KENT, JENN CHALMERS, AND REID "VINNY" PARIS

"Historical research and writing requires a careful balance between evidence from the period under study and the student's opinion about related issues in the present. An effective combination of past evidence and present opinion yields meaningful historical interpretation. As a result, our understanding of the past is open to continuous revision as our contemporary concerns and priorities change. History is not tethered solely in the past with unchanging truths to be uncovered, rather, it is dynamic and open to interpretive renewal through a research process that brings past and present together."

The Center for Undergraduate Research is led by Dr. Ali Abedi serving as Director and staffed by Ms. Alexandria Jesiolowski, Administrative Specialist. An Advisory Committee consisting of 12 faculty members across various disciplines provides guidance to the Director, and assists in proposal reviews & showcase planning. Each member serves a three year term.

CUGR Advisory Committee

Ali Abedi, Director

Alex Jesiolowski, Admin. Specialist

Francois Amar, Honors

Laura Artesani, Art

Timothy Cole, Liberal Arts

Heather Hamlin, Marine Sciences

Sarah Harlan-Haughey, English

Karl Kreutz, Natural Sciences

Roberto Lopez, Engineering

Mary Mahoney-ONeil, Education

Sid Mitchell, Education

Jessica Moore, Student Representative

Patricia Poirier, Nursing

Contact Us

5719 Crossland Hall, Suite 207

207-581-3583

CUGR.umaine.edu

CUGR@maine.edu



Twitter@UMaine_CUGR



Facebook.com/centerforundergraduateresearch



YouTube:Center4UG_Research@Umaine

Please send us your student and faculty research stories! Each edition of the CUGR Newsletter highlights research experiences from UMaine and we would love to hear yours!

Send stories and pictures to: CUGR@maine.edu

Student Reserach Expeirince

The Bangor Energy Smart Study

On August 16, 2016 a group of students from The School of Economics working with professors Sharon Klein and Caroline Noblet conducted intercept surveys with community members attending The Bangor Energy Expo. This study examined the role of different messages in encouraging participation in community energy programs and help identify motivations for participation in community energy programs.



From Left To Right: Dr. Caroline Noblet, Daniel Mistro, Allison Brakey, Maryam Kashkooli, William Brayden, Dr. Sharon Klein, and Chelsea Liddell.

Professor Robert Causey and the “Horse Skeleton”

(Below Left & Right Photos)

Since 2008, students at UMaine have been helping Dr Robert Causey to construct a horse skeleton, with the bones made from PVC, joints held together by fishing line, and the muscles represented by rope. The purpose is to show how the horse skeleton bears weight, and to give students an appreciation of equine biomechanics. The following students have been involved over the years: Kasey Fitch, Heather Woodbrey, Rachel Keating, Arianna Goulatis, Erika Malley, Kortney Cole, Nichole Daniszewski, Amanda Mayhew, Elizabeth Williams, Jaime Stuckey, Marie Barnes, Helen Crawford and Zandalee Toothaker.

“ I have been a research assistant for The School of Economics since my first year at The University of Maine. This has given me a lot of experience on how to conduct research and will help me immensely as I further my education. I have worked with graduate students and professors to conduct experiments, analyze data, and present findings that can be used to improve our community. Last spring I presented a poster of some of my research at the CUGR symposium with my partner Angela Hallowell.”

- Maryam Kashkooli (shown in above pciture, center)

