

A welcome to participants and attendees



Ann Weaver Hart



John D. Aber

Welcome to the Undergraduate Research Conference at the University of New Hampshire. In its seventh year, the URC celebrates the research, scholarship, and creative activities of our undergraduate students. Students in all disciplines present their faculty-mentored projects to audiences of peers, parents, faculty, administrators, and staff through live performance, oral and poster presentations, or displays. We are pleased that the URC provides a professional venue to showcase the results of their hard work.

We take pride in the efforts of our students and in the skill and dedication of the faculty who have guided them. Undergraduate research is one of the distinctive features of the University of New Hampshire. These extraordinary learning opportunities vary from field studies to empirical research to outreach scholarship to creative works. This research experience provides our undergraduate students with the unique opportunity to gain skills essential to pursuing graduate study and meaningful careers. There are also benefits for the faculty, who report that the teamwork essential to these efforts strengthens instruction and lays the groundwork for future challenges.

Join us in commending some of our most accomplished students. We encourage you to read the posters, listen to presentations carefully, and ask questions of the student researchers. We believe you will be impressed with their answers and the depth and breadth of their knowledge and understanding.

Ann Weaver Hart, President,
University of New Hampshire

John D. Aber,
Vice President, Research and Public Service

Enriching the undergraduate experience through research



Eleanor Abrams



Cameron Wake

The Undergraduate Research Conference (URC) is now a highlight of every spring semester and has become a signature event for our University. Our goal is to provide a unique opportunity for undergraduate students to inquire and discover. We do this by providing a professional venue for our undergraduate students to present faculty-mentored undergraduate research, scholarship, and creative performances. These faculty-student partnerships are a vital component of higher education. They enrich undergraduate teaching and learning by providing opportunities for students to experience the workings of their discipline firsthand.

There are several benefits for students and faculty who participate in the Undergraduate Research Conference. For example, URC participation highlights and promotes the awareness of undergraduate research, scholarship, and creative work occurring in a range of disciplines across campus. By presenting in professional venues, students are encouraged to pursue advanced study and academic careers. The weeklong schedule of events communicates and celebrates the powerful outcomes resulting from student-mentor relationships. Finally, the URC fosters a multidisciplinary and multicultural community of researchers, scholars, and artists linked by a common enthusiasm for life-long learning.

The growth and the success of the URC rests upon the enthusiastic participation of students and the dedication of faculty and staff. This year the URC is pleased to host a campus and community lecture by Laurie Garrett on pandemic security, an expanded Festival of Creativity and Culture, and a broader range of events at the UNH Manchester campus. In addition, guest presenters from Elizabeth City State University in Elizabeth City, North Carolina, enrich this year's conference. We are pleased to welcome these undergraduates and their faculty mentors who collaborate with UNH researchers in a productive research and education partnership.

In all of these activities, the URC embodies the UNH mission to combine the living and learning environment of a small New England liberal arts college with the breadth, spirit of discovery, and civic commitment of a land-, sea-, and space-grant research institution.

A handwritten signature in cursive script that reads "Eleanor Abrams".

Eleanor Abrams,
Director of Outreach Scholarship

A handwritten signature in cursive script that reads "C Wake".

Cameron Wake,
Chair, URC Planning Committee

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All events are free and open to the public.

*Accessibility accommodation requests may be directed to
Lynne Cooper at (603) 862-1997.*

URC '06 Calendar

All events are free and open to the public

Friday, April 21

6–8 p.m.

2006 Senior B.A. and B.F.A. Exhibition and Preview Reception

The Art Gallery,
Paul Creative Arts Center ❶

7 p.m.

Pulitzer Prize-winning author Laurie Garrett, Keynote Lecture “Pandemic Security”

Johnson Theatre,
Paul Creative Arts Center ❶
Seating is limited. To reserve free
tickets call (603) 862-0598 or visit
www.unh.edu/urc.

Tuesday, April 25

9–11 a.m.

UNH Manchester Undergraduate Research Conference Oral Presentations

UNHM Auditorium

12:40–2 p.m.

History Undergraduate Presentations

Horton Social Science Center, ❷
Room 201

Wednesday, April 26

10:30 a.m.–Noon

Seacoast Reads Exhibition

MUB, Rooms 330, 332, 334 ❸

UNH Office of Community Service Partnerships

MUB, Rooms 330, 332, 334 ❸

Thompson School Community Service & Leadership Program

MUB, Rooms 330, 332, 334 ❸

11 a.m.–2 p.m.

Thompson School Undergraduate Student Showcase

“Stacey’s” at Cole Hall ❹

2–5 p.m.

Interdisciplinary Science and Engineering Symposium

Morse Hall Atrium ❺

4–6 p.m.

UNH Manchester Undergraduate Research Conference Poster Presentations

UNHM, 3rd Floor Lounge

Thursday, April 27

11 a.m.–1 p.m.

UNH Manchester Student Film Presentations

UNHM Auditorium

Friday, April 28

9 a.m.

Breakfast with University President Ann Weaver Hart & Vice President for Research and Public Service John Aber

MUB, Granite State Room ❸

9:30 a.m.–Noon

Vice President’s University-wide Symposium Poster and Oral presentations

MUB ❸

Noon–5 p.m.

Honors English Undergraduate Research Conference

Hamilton Smith Hall, English ❻
Department Lounge, Rooms 128 & 129

12:30–3:30 p.m.

School of Health and Human Services Grimes Award Competition

Pettee Hall, Room G10 ❷

1–4 p.m.

Psychology George M. Haslerud Undergraduate Research Conference

Conant Hall, Room 101 ❸

3:30–5:30 p.m.

Festival of Creativity and Culture

Hennessy Theatre,
Paul Creative Arts Center ❶

4–8:30 p.m.

Philosophy Undergraduate Research Conference

The Waysmeet Center, ❾
15 Mill Road

8 p.m.

Student Composers Concert

Bratton Recital Hall,
Paul Creative Arts Center ❶

Saturday, April 29

7:45 a.m.–2 p.m.

15th Annual COLSA Undergraduate Research Conference

New England Center, Great Bay Room ❿

ADDITIONAL EVENTS:

Wednesday, May 3

8 a.m.–2 p.m.

Whittemore School of Business and Economics Paul J. Holloway Business Plan Competition

Holloway Commons, ❾
Piscataqua and Swampscott Rooms

8 a.m.–12:30 p.m.

Mary Louise Fernald Nursing Research Symposium

MUB, Strafford Room ❸

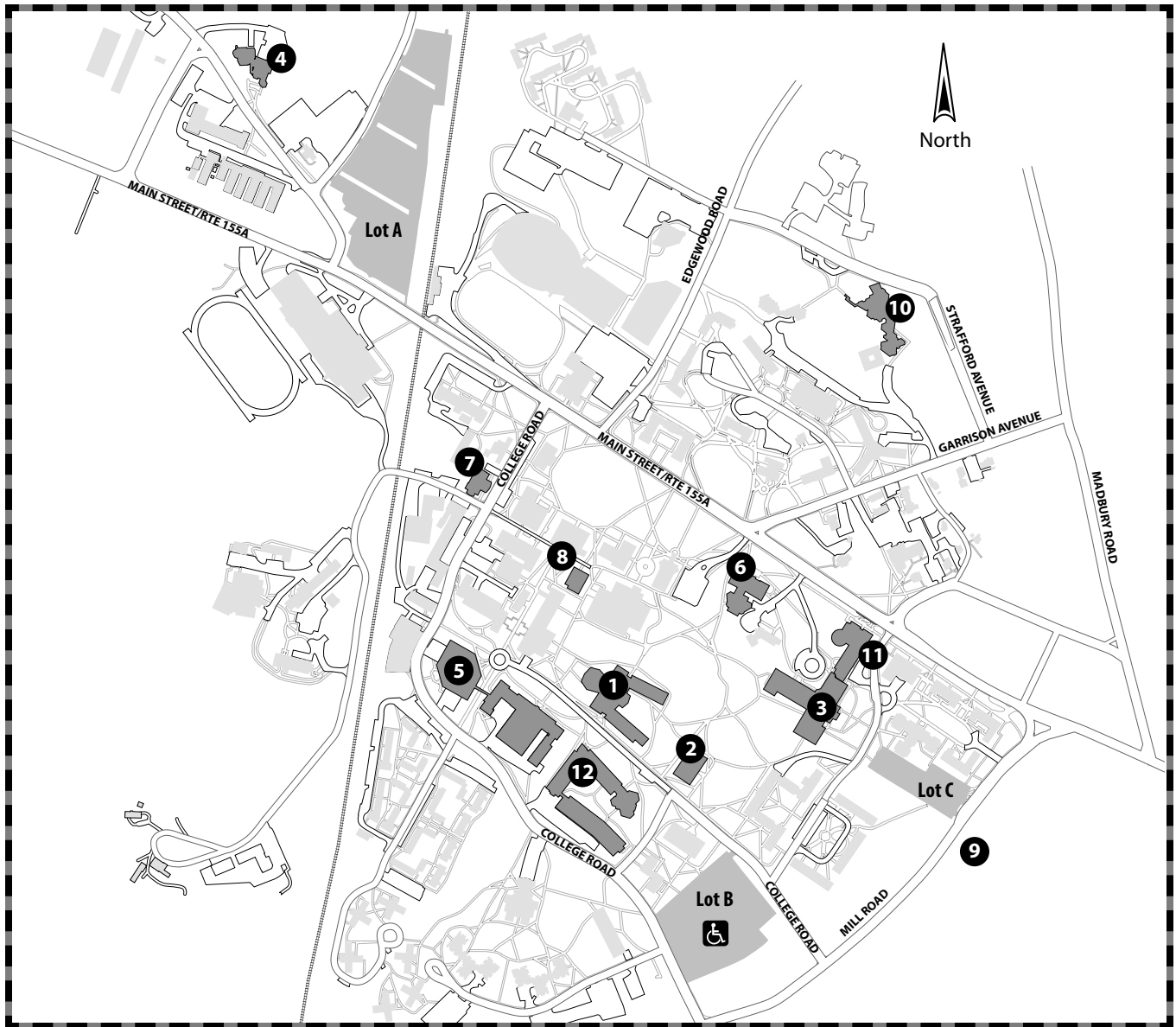
Friday, May 5

2:30–4 p.m.

Chemistry Department Poster Exhibition

Parsons Hall, Iddles Wing ❿

Campus Map



BUILDING KEY

- | | |
|----------------------------------|------------------------|
| 1. Paul Creative Arts Center | 8. Conant Hall |
| 2. Horton Hall | 9. Waysmeet Center |
| 3. Memorial Union Building (MUB) | 10. New England Center |
| 4. Cole Hall, TSAS | 11. Holloway Commons |
| 5. Morse Hall | 12. Parsons Hall |
| 6. Hamilton Smith Hall | |
| 7. Pettee Hall | |

UNH Manchester
400 Commercial Street
Manchester, NH

For directions to UNH Manchester go to
www.unhm.unh.edu/directions.html
or call (603) 641-4321.

Events and Presentations

The Undergraduate Research Conference
is proud to present

Laurie Garrett on “Pandemic Security”



FRIDAY, APRIL 21
7 PM

The Johnson Theatre, Paul Creative Arts Center

In this special appearance at UNH, Pulitzer Prize-winning author and global health expert Laurie Garrett addresses the University community with a talk on pandemic security.

Garrett is an authority on newly emerging and re-emerging diseases, public health, and their effects on foreign policy and national security. She is a senior fellow for global health at the esteemed Council on Foreign Relations and is the author of the best-selling books *The Coming Plague: Newly Emerging Diseases in a World Out of Balance* and *Betrayal of Trust: The Collapse of Global Public Health*.

2006 Senior Bachelor of Arts and Bachelor of Fine Arts Exhibition Preview Reception

FRIDAY, APRIL 21
6-8 PM

**The Art Gallery,
Paul Creative Arts Center**

This annual show celebrates the achievements of graduating art students from the UNH Department of Art and Art History.

Participants include:

B.A. Studio Art degree candidates:

Tenner Bradley, Painting
Shane Chick, Wood/Furniture Design
Adam D. Getz, Ceramics
Rachel Huckins, Ceramics
Sara Korpi, Wood/Furniture Design
Bethany Lowe, Painting
Kathleen McCaffery, Ceramics
Alexis McConnell, Photography
Erin Elizabeth Miley, Ceramics
Kate E. Muckenhirn, Photography
Rebecca O'Brien Pani, Painting
Brandy Reeves, Ceramics

B.F.A. degree candidates:

Thomas C. Call, Photography
Sofie H. Larsen, Painting
Kathryn Niboli, Painting
Toby M. Schreier, Printmaking
Rebecca Simpson, Painting

This exhibit runs from April 22 through
May 20 (closed May 4-9).

UNH Manchester Oral Presentations

TUESDAY, APRIL 25
9-11 AM

UNHM Auditorium

The oral presentations are formal scholarly lectures and/or multimedia presentations reflecting students' research interests.

Clayton Groves

Major: Psychology

Use it or Lose it, a Discussion of Adult Psychology and Service Learning

Adviser: Alison Paglia

Troy Maynard

Major: Communication Arts

Survivor, the Ultimate Survivor of Pop Culture

Adviser: Skip Tenczar

Devon Mercer

Major: History

Wrongful Life Cases-The Role of the Courts in Individual Morality

Adviser: John Cerullo

Kristen Montour

Major: Psychology

Internship at the New Hampshire Task Force on Women & Addiction

Adviser: Alison Paglia

Catherine Overson

Major: Psychology

The Role of Eros in Plato and Freud

Adviser: Terry Savage

Catherine Overson

Major: Psychology

Perinatal Loss: Possible Caregiver Barriers

Adviser: Gary Goldstein

Jessica Santos

Major: Business

Seminar Project at UNHM—BAE Systems Internship

Adviser: Jack McCarthy

Lynne Scott

Major: Business

Manchester's Sports Trifecta

Adviser: Jack McCarthy

History Undergraduate Research Conference

TUESDAY, APRIL 25
12:40-2 PM

Horton Social Science Center, Room 201

At this event, the history department hosts a panel of undergraduate history majors, who present the research projects from their academic classes, research seminars, and Honors theses.

Andrew Begley

Major: History

Disintegration: Ross Barnett, the Kennedys, and the Politics of Integration at Ole Miss

Adviser: Harvard Sitkoff

Caitlyn Daniuk

Major: History

Anti-Catholicism and the Ku Klux Klan in New Hampshire

Adviser: Jeff Bolster

Christopher Eaton

Major: History

An Unfortunate Lack of Knowledge: The United States, World War II, and the Gulag

Adviser: Kurk Dorsey

Roger Eichorn

Major: History and Philosophy

Theories of Historical Knowledge

Adviser: Jennifer Selwyn

Brooke Gilmore

Major: History

Adviser: Jeff Bolster

Meghan Glynn

Major: History

Like a Letter from Home! The Impact of Doughboys' Poetry in Stars and Stripes

Adviser: Lucy Salyer

Larry Peterson

Major: History

The Siege of Stalingrad: Why They Resist

Adviser: Molly Girard

Seacoast Reads Exhibition

WEDNESDAY, APRIL 26
10:30 AM-NOON

MUB, Rooms 330, 332, 334

Through the Seacoast Reads program, UNH students from all academic disciplines tutor elementary school children in the subjects of literature and writing. Twice each week, student volunteers head into schools and after-school programs across the seacoast area of New Hampshire to work with children. Seacoast Reads is one of the largest service and outreach organizations on campus. Since 1998 nearly 1,000 UNH students have volunteered for the program.

UNH students serving Children in New Hampshire Schools

Special guest: Abby Pyle, VISTA Coordinator of Seacoast Reads, Department of Education

Advisers: John J. Carney and Grant Cioffi

Thompson School Community Service and Leadership Program

WEDNESDAY, APRIL 26
10:30 AM–NOON

MUB, Rooms 330, 332, 334

The Community Service and Leadership Program is an innovative associate degree and diploma program that prepares students of all ages to work effectively within community organizations and to be active, influential citizens.

Amanda Adams
Thomas Brennan

Peter Dunbar

Andrew Grassie

Vicki Hebert

Jennifer McGrath

Melissa Podaski

Major: Community Service and Leadership

Senior Portfolios of Learning, Service, and Leadership

Advisers: Tim Barretto and Kate Hanson

Marc Ambrosi

Jane Borkland

Jeremy Bourgeois

Darren Cantor

Jessica Carter

Oliver Fisher

Christopher Forbes

John Brady

Erica Jannino

Andrew Jensen

Nicole LaBranche

Kelly McGrail

Melissa Morris

Tyler Parkhurst

Lori Parent

Emily Quigley

Erica Raizes

Brian Reed

Marybeth Schofield

James Sorbie

Kerrie Sullivan

Robert Sullivan

Alicia Swain

Louisa Turcotte

Major: Various majors

Presentation of Partnership Projects with Cornucopia Food Pantry

Advisers: Deborah Sugerman and

Kate Hanson

Office of Community Service Partnerships

WEDNESDAY, APRIL 26
10:30 AM–NOON

MUB, Rooms 330, 332, 334

This display showcases the work of student service organizations and student groups engaged in community and service-learning projects throughout the year. These activities range from spring break service trips to campus-wide events such as Relay for Life.

Adviser: Marianne Fortescue

Thompson School Undergraduate Student Showcase

WEDNESDAY, APRIL 26
11 AM–2 PM

"Stacey's" in Cole Hall

Thompson School of Applied Science students translate academic instruction into practical presentations at this year's URC. Join selected students who showcase their expertise in such

diverse areas as dairy management, restaurant management, forest management, and tropical floral design.

Jennifer Bleakney

Johanna Bleakney

Amanda Brown

Nicole Verville

Major: Applied Animal Science in Dairy Management

CREAM (Cooperative Real Education in Agricultural Management):

Experiential Education at its Best

Adviser: Andrew Conroy

Ryan Audet

Josh Bennet

Andy Crowder

Shawn Fales

Dave Faller

Ed Frank

Barn Heckler

Caleb Holden

Matt Lassonde

Chris Plourde

Mary Beth Schofield

Holly Spinney

Chris Taylor

Marie Wright

Major: Civil Technology: Architectural Technology

Alumni Co-housing at UNH

Adviser: Guy Petty

Tania Drown

Andrew Friedman

Henry Stebbins

Major: Food Services Management in Restaurant Management

Restaurant Management Students Present a Special Buffet Featuring International Fare

(BUFFET SERVED 12–1 PM,

PUBLIC INVITED—RESERVATIONS

RECOMMENDED, 862-1025)

Advisers: Charles Caramihalis and

Eugene Alibrio

Michael Simmons

Major: Forest Technology

Using ArcView GIS (Geographic Information Systems) Software and the GRANIT Database to Map

Natural Resources

Adviser: Matthew Chagnon

Rebecca Collins

Jason Goodall

Mary Nicholson

Amenda Pereira

Jay Whitehouse

Major: Horticultural Technology

Horticultural Technology Student

Floral Designs: Tropical Designs

Advisers: John Hart, Rene Gingras, and Dana Sansom

Interdisciplinary Science & Engineering (ISE) Symposium

WEDNESDAY, APRIL 26
2-5 PM

Morse Hall Atrium

Learn about the exciting research underway in UNH's science and engineering disciplines at the ISE Symposium, featuring the presentations of engineering students' capstone experiments and interdisciplinary science research from departments across campus. This event features poster presentations and an awards ceremony.

Christopher Anderson

Jeremy Blanchard (team leader)

Jason Finnie

Michael Magri

Phillip Maurice

Lisa Panneton

David Story

Sarah Stott (team leader)

Major: Mechanical Engineering

Mini Baja

Adviser: Gerald Sedor

Lawrence C. Reardon

Associate Professor

"Leave your academic baggage at the door" might be a good sign for the entrance to Chris Reardon's office. In his 15 years at UNH, he's witnessed thousands of students ditch their notions of the "chore" of learning. "Suddenly, they begin discovering new things about the world and about themselves," he says, "and they realize 'academics' are not about the grades and quizzes, not a burden they must bear, but something they find fascinating."

He describes his students as the Indiana Joneses of the undergraduate world. "They are on a quest," he says. "Not for lost treasures, but for knowledge." Reardon works with students in the increasingly popular international affairs dual major where, on location, students examine such issues as corruption in Kenya, reproductive rights in communist nations, race, terrorism, cultural tensions, and more.

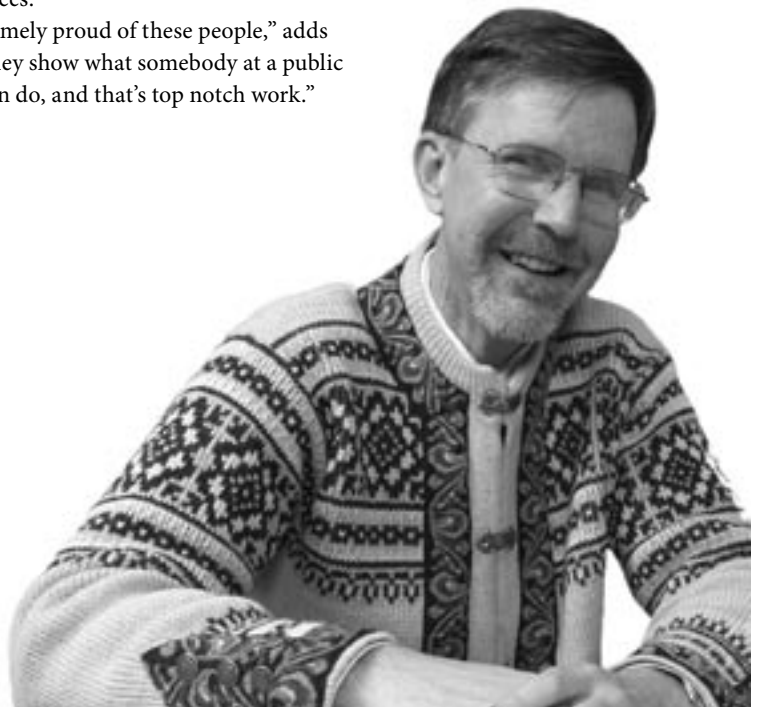
At this week's URC you'll recognize their work by the project titles. They can be attention-getting: "Switzerland is Missing...from the European Union!"; provocative: "A Nuclear Iran?"; even seemingly ironic: "Euskal Herria: A Culture in Search of a Nation."

Where do the student explorers find inspiration for these timely, global investigations? Simply by opening their eyes to the world around them. "When they go abroad they should be thinking about what intrigues them," says Reardon. Upon return, the first thing they have to do is define the question, and the research flows from that point to the point at which they culminate their explorations by defending their findings to a greater audience.

"Presenting helps them complete the learning process," says Reardon. "It's a fantastic opportunity for them to disseminate their knowledge."

What's the payback for this faculty mentor? "I learn something every day," he says. "There are students here who have had experiences that I've never had. I can teach them how to analyze, but when they develop their argument, they bring their own perspective and experiences."

"I'm extremely proud of these people," adds Reardon. "They show what somebody at a public university can do, and that's top notch work."



Zachary Archambault (team leader)

Joshua Lent

Major: Mechanical Engineering

Campfire Generator

Adviser: David W. Watt

Kevin Arruda

Jordan Wyckoff

Major: Computer Engineering

ASIC FFT Component Library: 8-bit

Complex Multiplier

Adviser: Andrzej Rucinski

Jonathan Baker

Major: Electrical Engineering

Solar Maximum Power Point Tracker

Adviser: Michael Carter

Jonathan Barrett

Thomas Hunt

Andrew Kennedy

Casey Machado (team leader)

Major: Mechanical Engineering

Fire Fighting Robot

Adviser: Barry K. Fussell

Bradley Bell

Major: Electrical Engineering

The Effects of Sound Source Location on Driving Performance

Adviser: Andrew Kun

Whitney Blanchard

Major: Environmental Engineering

Removal of Tetramethylammonium

Hydroxide from Liquid Waste

Collection System

Adviser: Kevin Gardner

Michael Borrelli (Mechanical Engineering)

George Clark (Physics)

Morgan O'Neill (Physics)

Design and Testing of the Star Sensor for the Interstellar Boundary Explorer

Adviser: Eberhard Möebius

Travis Boucher

Charles DeLoid

Michael Palladino

Major: Electrical Engineering

FFT Component Project

Adviser: Andrzej Rucinski

Timothy Bourque

Emmett Donovan

Douglas Ferro

Peter Goodwin

Joshua Kissinger (team leader)

Major: Mechanical Engineering

Clean Snowmobile

Adviser: David W. Watt

Michael Boutin

Benjamin Buchinski

Michael Farrar

Michael Grobecker (team leader)

Katelyn Palmer (Electrical & Computer Engineering)

Sean Perron

Major: Mechanical Engineering

Hovercraft

Adviser: May-Win Thein

Mark Joseph '06

Can Kant Accommodate Supererogation?

Can Immanuel Kant's ethics accommodate the moral category of the supererogatory, that is, the class of actions which typically go beyond the call of duty and exemplify human beings at their very best? That's the question senior Mark Joseph set out to answer in his investigation of the philosopher's ethical framework.

"The roughhewn conclusion," he says, is that Kant can accommodate the supererogatory, in a limited sense. But "for a more in-depth analysis of my conclusion, go to the philosophy department's undergraduate research event."

When Joseph is not knee-deep in intellectual reasoning, he is studying another one of his many interests: scratch baking. Can't stomach Kant? Perhaps his Italian herb and honey whole-wheat bread might be the draw for you.

Follow your nose to the Waysmeet Center on Friday, April 28, 4:00–8:30 p.m., 15 Mill Road.



John Brackett
David Ciasulli
Cameron Ciccone
David Hopkins (team leader)
Brett Schuster
Ervin Weed (Electrical & Computer Engineering)
Major: Mechanical Engineering
SAE Formula Vehicle
Adviser: May-Win Thein

Paul Bruillard
Major: Physics and Mathematics
Fast Neutron Imaging Telescope
Adviser: James Ryan

Liz Burakowski (Earth Sciences)
Stephanie Jelliff (Education)
Cory Morin (Geography)
Alex Sink (Natural Resources)
The Effects of an Urban Environment on Cloud Formation and Temperature
Advisers: George Hurtt and Cameron Wake

Berkley Cline (Biology)
Whitney McCormack (Undeclared)
Samuel Sylvester (Forestry)
Thomas Welsh (Forestry)
Benjamin Wilson (Biology)
Solving the Mystery of Salt in the Portsmouth Coffin Woods
Adviser: Barrett N. Rock

Salimah Cogbill (special guest from Elizabeth City State University)
Major: Biology
Shoot Regeneration from Cotyledons of Rapid-Cycling Fast Plants
Adviser: Cheryl Lewis (ECSU)

Chelsea Corr
Major: Earth Sciences
Measurements of Aerosol Chemical Composition and Optical Properties in the Polluted Summer Marine Boundary Layer
Adviser: Robert Griffin

Scott Crawford
Jonathan Oppelaar
Major: Computer Engineering
FFT Component Project
Adviser: Andrzej Rucinski

Adam Csakai
Major: Chemistry
Tandem Chain Extension Aldol Reaction of β -Keto Imides
Adviser: Charles Zercher

Matthew Cullen
Major: Electrical Engineering
Port Security
Adviser: Andrzej Rucinski

Elie Dagher
Major: Computer Engineering
FFT Library Component: 16 Bits Complex Multiplier
Adviser: Andrzej Rucinski

Jason Dahlstrom (Computer Engineering)
Christopher Glynn (Electrical Engineering)
Computer Brain Interfaces and Computational Modeling
Adviser: Kent Chamberlin

Matthew Derov
Major: Mechanical Engineering
Validation of a Stress Based Failure Criterion in Sheet Metal
Adviser: Brad Kinsey

Susan Deuell
Major: Computer Engineering
Standard Test Access Port and Boundary-Scan Architecture: The IEEE 1149 Standard
Adviser: Kuan Zhou

Sarah Eisenlord
Major: Microbiology
The Effects of Warming on Soil Microbial Metabolism
Adviser: Serita Frey

Thomas Fogal
Major: Computer Science
Adaptive Mesh Refinement
Adviser: Phil Hatcher

Owen Friend-Gray
Major: Environmental Engineering
Chromium Adsorption by Apatite
Adviser: Jeffrey Melton

Kaiem Frink (special guest from Elizabeth City State University)
Major: Computer Science
Study on the Implementation of Macromedia Coldfusion as a Web Server Application
Adviser: Linda Hayden (ECSU)

Michael Genovese
Major: Electrical Engineering
Personal Guitar Isolation System
Adviser: L. Gordon Kraft

David Gillespie
Brett Hunter
Major: Electrical Engineering
Automated Radio Direction Finding System
Adviser: Michael Carter

Timothy Henderson
Major: Chemistry
Attempted Stereo Selective Synthesis of Tetrahydrofuran Rings
Adviser: Charles Zercher

Ian Honsberger
Major: Earth Science
Magmatic Processes Beneath the East African Rift Valley in Turkana, Kenya
Adviser: Julie Bryce

Shin Horiuchi
David Schwarzenberg
Major: Electrical Engineering
FFT Component Project
Adviser: Andrzej Rucinski

Grace Hwang

Major: Mechanical Engineering
Design and Implementation of Spatial Ability Tests and Devices
 Adviser: Brad Kinsey

Kevin Jerram

Ashley Riso
 Major: Mechanical Engineering
Measurement of Waterborne Construction Noise in Estuaries
 Adviser: Ken Baldwin

Gieira Jones (special guest from Elizabeth City State University)
 Major: Biology
Electroporation of Crithidia ricardoi with pNUS-GFPH
 Adviser: Cheryl Lewis (ECSU)

Ashley Keller (Physics)

Chato Osio (Natural Resources)

Matt Szymanowicz (Natural Resources)
Permafrost and Carbon
 Advisers: George Hurtt and Cameron Wake

David Klimaszewski

Randy Williams
 Major: Computer Engineering
Complex Multiplier
 Adviser: Andrzej Rucinski

Stephanie Kloek

Major: Marine and Freshwater Biology
The Investigation of Anchor Attachment Designs for Pop-up Satellite Tags Used on Atlantic Blue fin Tuna, Thunnus thynnus
 Adviser: Ken Baldwin

Russell Lemire

Major: Civil Engineering
Warm Mix Asphalt Technology
 Adviser: Jo Daniel

Ben MacBride

Major: Physics
Kolmogorov's 4/5 Law and its Magnetohydrodynamic Analogues in the Solar Wind
 Adviser: Charles Smith

Krystian Manitius-Kozlowski

Major: Civil Engineering
Concept Cable Stayed Bridge
 Adviser: Erin Bell

Rory Martell

Major: Electrical Engineering
EEG and Method of Moments: Bridging Time and Space
 Adviser: Kent Chamberlin

Michael Mason

Major: Physics
³He Neutron Spin Filter with Spectrally Narrowed Diode Laser
 Adviser: Bill Hersman

Benjamin McMahon

Major: Electrical Engineering
Modeling Diurnal Variations in a Short Range Wireless Communication System
 Adviser: Kent Chamberlin

Elizaveta Meleshkina

Major: Earth Sciences
Correlation Between First Snowfall, Temperature, and the Length of Winter in Western Russia
 Adviser: James Pringle

Jerome Mitchell (special guest from Elizabeth City State University)

Major: Computer Science
Using Ensemble Learning to Detect Data Abnormalities in Databases
 Adviser: Linda Hayden (ECSU)

Abebe Negash

Major: Chemical Engineering
Biodiesel
 Adviser: Ihab Farag

Jonathan Nguyen

Major: Chemical Engineering
Fracture Testing for the Evaluation of Self Healing Composites
 Adviser: Donald Sundberg

Nathan Purmont

Major: Electrical Engineering
Standalone Data Acquisition System for the UNH Precision Racing Formula SAE Car
 Adviser: Frank Hludik

Michael Rayno (team leader)

Cory Timoney
 Major: Mechanical Engineering
Xenon Polarizer
 Adviser: F. W. Hersman

Christopher Robert

Major: Civil Engineering
UNH Concrete Canoe
 Adviser: Jo Daniel

Christopher Robert

Major: Civil Engineering
Reinforced Concrete Guard Rail
 Adviser: Charles Goodspeed

Mark Santos

Major: Microbiology
Transnasal Delivery of a GnRH Analog in Miniature Swine
 Adviser: Stacia Sower

Lindsay Scott

Major: Environmental Conservation
Effects of Long Term Soil Warming on Soil Respiration
 Adviser: Serita Frey

Rachel Scudder

Major: Earth Sciences
Mineralogic Control on the Geochemical Signature of Water-Rock Interactions at Pawtuckaway State Park
 Adviser: Julia Bryce

Michael Siopis

Major: Mechanical Engineering
Microforming: Hardness Testing and Analysis
 Adviser: Brad Kinsey

David Sodaitis

Major: Physics

Wave Excitation and Thermal Particle Acceleration by Interplanetary Shocks

Adviser: Charles Smith

Vasily Vorotnikov

Major: Chemical Engineering

Automated Shock Identification and Solutions for Space Weather Applications

Adviser: Charles Smith

Jonathan Waters

Major: Computer Engineering

Project54 Wireless Location Awareness

Adviser: Andrew Kun

Anna Weaver

Major: Chemistry

EPR Spectroscopy for the Forensic Analysis of Glass

Adviser: N. Dennis Chasteen

UNH Manchester Poster Presentations

WEDNESDAY, APRIL 26

4-6 PM

UNHM 3rd Floor Lounge

The poster presentations showcase students' independent research and internship projects, service learning activities, and civic engagement projects in the learning lab of the city of Manchester.

Louis Biondi

Major: English

Government Suppression of Dissent, 1900-1920

Adviser: Jack Resch

Aaron Boucher

Major: Humanities

The Theoretical Basis of Democracy: The Idea of Human Equality

Adviser: Jack Resch

Joshua Gehling

Major: English

The Changing Picture of Crime in Manchester

Adviser: Deborah Brown

Caitlin Hampson

Major: Undeclared

An Attorney's Eye View Exploring Changing Crime Trends in Manchester

Adviser: Deborah Brown

Larry Habel

Major: History

McCarthyism and Freedom of Speech

Adviser: Jack Resch

Kayla Ingham

Major: Undeclared

What I Saw Exploring Changing Crime Trends in Manchester

Adviser: Deborah Brown

Jaclyn Kabat

Major: Nursing

At the Restaurant Exploring Changing Crime Trends in Manchester

Adviser: Deborah Brown

Nickolas Levasseur

Major: Biology

Investigations Exploring Changing Crime Trends in Manchester

Adviser: Deborah Brown

Catherine Overson '06

Perinatal Loss: Possible Caregiver Barriers

As a nurse in the Labor and Delivery unit of Elliot Hospital in Manchester, Cathy Overson sees firsthand the distress of bereaved parents experiencing a pregnancy or newborn loss. As a psychology major, she wanted to explore the factors contributing to nurses' experiences as they care for these patients.

With the help of a Summer Undergraduate Research Fellowship (SURF), Overson evaluated the role of nurses' anxiety levels in this setting. Her results suggested that offering a mentoring program and supportive counseling to nurses who care for these patients might be beneficial.

"Implementing the study and interpreting the results provided me with invaluable experience that I can carry along to my graduate activities," says Overson.

As a third-time participant in the URC, Overson finds that presenting "adds a sense of credibility and acknowledgement that my research has value."

Hear about Overson's findings at the UNHM oral presentations on Tuesday, April 25, 9-11 a.m., or read her published article online at www.unh.edu/inquiryjournal.



Ryan O'Connor

Major: Communication Arts

Experience Exploring Changing Crime Trends in Manchester

Adviser: Deborah Brown

Lauren Pelletier

Major: Humanities

Women's Suffrage: A Case Study of Democracy in Action

Adviser: Jack Resch

UNH Manchester Student Films

THURSDAY, APRIL 27

11 AM-1 PM

UNHM Auditorium

The UNH Manchester communication arts program has a production track in which students complete introductory and advanced course work in video production, scriptwriting, audio production, film aesthetics, and documentary production. The student

films featured at this event illustrate their work at different stages in the curriculum.

(Information on participants will be available at this event.)

Breakfast with University President Ann Weaver Hart & Vice President for Research and Public Service John Aber

FRIDAY, APRIL 28

9-9:30 AM

MUB, Granite State Room

This informal gathering gives students and attendees an opportunity to visit with President Hart and Vice President for Research and Public Service John Aber. Hart and Aber will provide a preview of the large university-wide event that follows breakfast—the Vice President's Symposium.

Vice President's University-wide Symposium

The Vice President's University-wide Symposium showcases students from a variety of academic disciplines including international affairs, political science, sociology, communications, marketing, women's studies, and the McNair Graduate Opportunity Program. Students present their faculty-mentored projects in either interactive poster or oral presentations.

Jonathan Burg '06

The Effects of Athlete Goal Orientation on Preferred Coach Leadership Behavior

Jonathan Burg knew he wanted to be a sport psychologist at a young age. Today, he is well on his way.

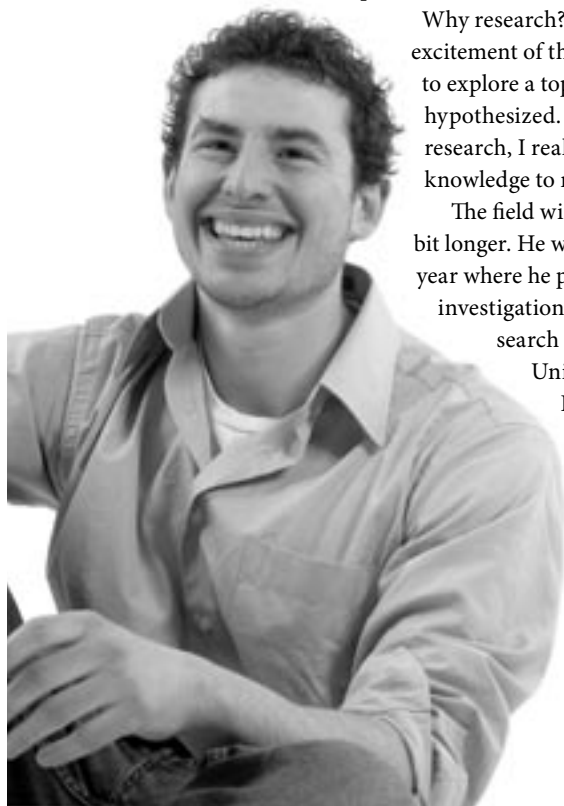
Burg is a Division I soccer player at UNH and is completing majors in both psychology and sport studies. Through the course of his latest research project, he established professional relationships with scholars in both fields.

Why research? He says initially it was the excitement of the challenge that motivated him to explore a topic on which others had only hypothesized. "In the later stages of my research, I realized that I'm capable of adding knowledge to my chosen field of study."

The field will have to wait for Burg just a bit longer. He will start graduate school next year where he plans to continue his scholarly investigations. But first he defends his research at the Vice President's

University-wide Symposium on Friday, April 28 at the MUB.

"The URC brings a sense of professionalism to undergraduate education," says Burg. "It has opened my eyes to the amount of hard work and intellect found on our campus."



Poster Presentations; Session A

FRIDAY, APRIL 28
9:30–10:40 A.M.

MUB, Granite State Room

Nicholas Adams

Jenna Darling

Major: Psychology

The Effects of Norepinephrine and Dopamine in Remediating Selective Attention Deficits

Adviser: Jill McGaughy

Devin Avery

Eric Ely

Major: Computer Science

Network Traffic Trace Generator and Discrete Event Simulator

Adviser: Radim Bartos

Jessica Cawley

Major: Music Education

Investigating the Ways the Irish Learn Music

Adviser: Susan Hatfield

Rachael Corr

Major: Nursing

Cigarette Smoking as a Risk Factor for Abnormal Pap Smears: An Integrative Literature Review

Adviser: Lynette Ament

Rachel Croft

(McNair Graduate Program)

Major: Communications

Types of Motivation and Definitions of Success Among College Students

Adviser: Rosa Arriaga

Hieu Doan

Major: Biology: Molecular, Cellular, and Developmental

Effects of Aluminum and/or Cadmium on Growth and Cellular Metabolites in Suspension Culture of Red Spruce (Picea rubens)

Adviser: Rakesh Minocha

Beth Friedman

Jennifer Roussel

Major: Sociology

Nice Gals Finish Last: An Examination of Queen Bee's Manipulative Techniques for Dominating Others in Teen Comedy Films

Adviser: Catherine Moran

Sarah Grieve

Nicole Young

Major: Animal Science

Cytokeratin 8/18 Intermediate Filaments and their Role in Regression of the Bovine Corpus Luteum

Adviser: David Townson

Stephan Pirnie

Evan Jordan

Major: Biology: Molecular, Cellular, and Developmental

Harnessing the Power of an Invasive Species: Creating a Bioremediator out of Purple Loosestrife

Adviser: Subhash Minocha

Jennifer Perkins

Major: Nursing

The Healthcare Experiences of International Students

Advisers: Gene Harkless and Carol Williams-Barnard

Sarah Rabbet

Major: Psychology

Antidepressant Reversal of Intermittent Cold Water Swim Stress Induced Swim Escape Behavioral Deficits in Rats

Adviser: Robert Dugan

Dhandevi Singh

(McNair Graduate Program)

Major: Political Science

Sino-Indian Security Dilemma: Offensive and Defensive Mobilization

Adviser: Lawrence Reardon

Kristen Steinbacher

Major: Sociology

Mental Health Activism, Psychiatric Survivors, and the Rejection of the Medical Model

Adviser: Catherine Moran

Peter Widger

Major: Chemistry

Synthesis and Characterization of New Tricyclic Tetraamines

Adviser: Gary Weisman

Social Work: An Overview of Practice and Service Learning

Laura Amaral

Major: Social Work

An Overview of Three Common Mental Health Disorders

Adviser: L. Rene Bergeron

Rachel Bloom

Major: Social Work

Giving Families a Head Start

Adviser: L. Rene Bergeron

Kelsey Boucher

Major: Social Work

New Outlook Teen Center Program Overview

Adviser: Robert Jolley

Justin Breton

Major: Social Work

The Division for Children, Youth and Families: An Overview

Adviser: L. Rene Bergeron

Kathryn Doherty

Major: Social Work

Dover Teen Center: Services and Opportunities

Adviser: L. Rene Bergeron

Erin Duchemin

Major: Social Work

IMR: Illness Management and Recovery

Adviser: L. Rene Bergeron

Sarah Gagnon

Major: Social Work

Birth Control Options

Adviser: L. Rene Bergeron

Frances E. Shepard

Major: Social Work

New Heights: Adventure for Teens

Adviser: L. Rene Bergeron

Felicia Zoffka

Major: Social Work

Reaching the HIV and AIDS

Population

Adviser: L. Rene Bergeron

Laura Blake

Major: Social Work

Empowering Families of Children with

Developmental Disabilities

Adviser: Robert Jolley

Eric Esty

Major: Social Work

Refugee Resettlement Program

Adviser: Robert Jolley

Patricia LaPan Gagnon

Major: Social Work

*Domestic Violence—the Decision to
Leave*

Adviser: Robert Jolley

Abby Malcolm

Major: Social Work

*The Seymour Osman Community
Center*

Adviser: Robert Jolley

Emily Newell

Major: Social Work

Sexual Assault Support Groups

Adviser: Robert Jolley

Alexa Stern

Major: Social Work

Choosing a Method

Adviser: Robert Jolley

Heather Tamilio

Major: Social Work

*Program for Alzheimer's and Related
Disorders*

Adviser: Robert Jolley

Vice President's University-wide Symposium

Oral Presentations; Session A

FRIDAY, APRIL 28

9:30–10:40 A.M.

Memorial Union Building (MUB)

MUB, Room 207

*Scandal, Spectacle, and the
Public Sphere in the
Contemporary United States*

Moderator: Melissa Deem

Magnolia Barrett

Major: Communications

*Punishing Freaks: Brandon Teena and
The Reinscription of Heteronormativ-
ity in U.S. Public Culture*

Adviser: Melissa Deem

Leah Igo

Major: Communications

*The Kobe Bryant Trial: Celebrity, Race,
and Rape in the United States*

Adviser: Melissa Deem

Amy Kaye

Major: Psychology

*Parenting Behaviors in Adult Survivors
of Child Sexual Abuse*

Adviser: Victoria Banyard

Emily Martin

Major: Communications

*Female Monster: Eileen Wournos and
the Transgressions of Public Sexuality*

Adviser: Melissa Deem

Corinne Schmitz

Major: Communications

*A Good Ana Doesn't Die: Pro Anorexia
Websites as Contemporary Manifestoes*

Adviser: Melissa Deem

MUB, Room 330

*Contemporary Issues in Modern
Society*

Moderator: Sharyn Potter

Brian Collins

Major: Sociology

*The Effects of Undergraduate Employ-
ment on Academic Achievement*

Adviser: Sharyn Potter

Emily Duynstee

Major: Sociology

*Non-medical Use of Prescription Drugs
on College Campuses*

Adviser: Sharyn Potter

Loryn Gadbois

Major: Sociology

*Corporal Punishment and How it
Effects Later Partner Violence*

Adviser: Sharyn Potter

Kristin Harris

Major: English

*Financing the Evolutionary Machine:
Capitalist Ideology and Social Darwin-
ism in Zola's, The Ladies Paradise and
Dreiser's Sister Carrie*

Adviser: Sarah Sherman

Elizabeth Milliken

Major: Sociology

*Alumni Reflections on the UNH Un-
dergraduate Research Conference*

Adviser: Sharyn Potter

Krystin Morin

Major: Spanish

Picasso y la guerra

Adviser: Carmen Garcia de la Rasilla

MUB, Room 332

International Affairs: Working Out of Poverty

Moderator: Albert Griffin

Erica Bertolotto

Major: Political Science

The Effects of Neoliberal Economic Policies on Child Labor in Iringa, Tanzania and Matagalpa, Nicaragua

Adviser: Lawrence Reardon

Kristen Fitzpatrick

Major: Spanish

When Sex Sells: A New Era Encounters a Historic Problem

Adviser: Lawrence Reardon

Katarzyna Gannon

Major: English

Mobility of Labor and Job Migration of Polish Nationals

Adviser: Lawrence Reardon

Carolyn Kokko

Major: Political Science

A Welfare State South of Rome: The Economic Failure of il Messogiorno

Adviser: Lawrence Reardon

Mariana Peña-Trestini

Major: Economics

Poverty and Growth in Venezuela

Adviser: Lawrence Reardon

Matthew Reno

Major: Business Administration

Regional Stagnation: The Undermodernization of Southern Spain

Adviser: Lawrence Reardon

MUB, Room 340

International Affairs: Economic Growth and Stagnation

Moderator: Theodore Howard

Aleyah Ashour

Major: Political Science

A State of Emergency

Adviser: Lawrence Reardon

Shannon Buckley

Major: Environmental Conservation

Laggard or Just Misunderstood: The Development of Environmental Policy in Italy since the 1970s

Adviser: Lawrence Reardon

Chelsea Mukon

Major: Linguistics

Switzerland is Missing...from the European Union!

Adviser: Lawrence Reardon

Alice Sheehan

Major: Economics

CAFTA: An Intelligent Choice?

Adviser: Lawrence Reardon

Joel Verrill

Major: Business Administration

What Causes Currency Failure?

Adviser: Lawrence Reardon

MUB, Room 338

International Affairs: Preserving Culture and Identity I

Moderator: Kurk Dorsey

Virginia de Freitas-Battersby

Major: Political Science

The Barriers between the Kitchen and the Campaign: Women and Politics in Brazil

Adviser: Lawrence Reardon

Vicki Hebert '06

Senior Portfolio of Learning, Service, and Leadership

Vicki Hebert is passionate about cancer prevention. She spent hundreds of hours starting up the UNH chapter of Colleges Against Cancer, then showed her work on this massive initiative at URC '05, winning a scholarship for her presentation.

Passionate and savvy, Hebert knew that bringing her work to the conference would not only give her valuable academic experience, but also would be great exposure for her fledgling organization. It "did just that," she says. "Several people expressed interest in joining the organization and we found a faculty adviser for the group, as well."

Passionate about presenting, this year Hebert will have her senior portfolio on display at the Thompson School Community Service and Leadership event on Wednesday, April 26, from 10:30 a.m.–noon at the MUB.



Justin Gelinas

Major: Political Science

Euskal Herria: A Culture in Search of a Nation

Adviser: Lawrence Reardon

Emily Hardy

Major: Humanities

Culture Clash in Southern France: Effect of Maghreb Immigration from Northern Africa

Adviser: Lawrence Reardon

Nora Larkin

Major: German

Changing Ethnic Identities in Post-National Germany: A Study of Turkish-German Literature, Politics, and Society

Adviser: Lawrence Reardon

Justin Laurion

Major: Linguistics

Governmental Impact on Tolerance in Multicultural Environments: A Montreal Case Study

Adviser: Lawrence Reardon

Erin Margentino

Major: Political Science

Argentina: A Divergent National Identity

Adviser: Lawrence Reardon

Jerome Mitchell '07

ELIZABETH CITY STATE UNIVERSITY

Using Ensemble Learning to Detect Data Abnormalities in Databases

Jerome Mitchell majored in computer science because he enjoys solving complex problems using methodological steps. But it's not the only kind of science that interests him.

"Since freshman year I've worked on projects concerning glacier dynamics," says Mitchell. Now a junior, Mitchell uses his technological know-how to help study global climate change. He collects data abnormalities in databases, which helps researchers measure changes and make predictions about polar ice.

"We're looking for data on melting glaciers to test the theories of global warming and its effect on the rise of sea levels," he says.

Mitchell is one of four Elizabeth City State University (ECSU) students presenting at this year's URC. ECSU, in Elizabeth City, N.C., and UNH have a research and education partnership which enables faculty and students at both institutions to collaborate on research, education, and outreach opportunities.

Mitchell says that coming to UNH is a way for him to get his research in front of people. "I hope that I can inspire someone to become interested in the kind of work I'm doing." He'll return to campus this summer to continue his research on ice sheets and sea level rise with research associate professor Mark Fahnstock in the Research and Discover Program.

Jerome Mitchell recently returned from a five-week Antarctic expedition where he worked 10–15 hours each day in sub-zero temperatures operating plane-wave radar to measure the annual accumulation of snowfall and digging snow pits to accurately test the results of the radar using density snow core samples.



MUB, Room 334

Political Science: International Relations

Moderator: Alynna Lyon

Discussant: Benjamin Cole

Jessica Gauthier

Major: Political Science

Modern Military Means: Considerations for Effective Uses of Force

Adviser: Lawrence Reardon

Dan Jasinski

Major: History

State Sovereignty and the International Criminal Court

Adviser: Lawrence Reardon

Christine Leonard

Major: Political Science and International Affairs

A Test of Will: Darfur and the International Debate for Intervention

Adviser: Lawrence Reardon

Katie Smith

Major: Political Science

A Nuclear Iran?

Adviser: Lawrence Reardon

Michael Smith

Major: Political Science

Perspectives on the Use of Force for the Twenty-first Century

Adviser: Lawrence Reardon

Laurel Smith

Major: Political Science

*International Politics and the
Ratification of the European Union
Constitution*

Adviser: Lawrence Reardon

MUB, Room 336

*Political Science: Political
Thought*

Moderator: Marla Brettschneider

Discussant: Nicolas Noloboff

Paul Brachman

Major: Political Science

*Competing Visions of the American
Dream: From Frontiers to Ferraris*

Adviser: Lawrence Reardon

Phillip Brand

Major: Economics

*Three Excesses in American
Contemporary Democracy:*

A Tocquevillian Critique

Adviser: Lawrence Reardon

Jaci Lawson

Major: English

*Tocqueville and Poetry in a
Democratic Age: Can Inspiration
Survive the Daily Grind?*

Adviser: Lawrence Reardon

Meghann McCluskey

Major: English

*Politics and Film: A Focus on
Freedom Political*

Adviser: Lawrence Reardon

Ian Pajer-Rogers

Major: Political Science

*Politics and Fear: The Supreme Court
and the Executive After September 11*

Adviser: Susan Siggelakis

MUB, Room 321

*Highlighting the Margins:
Empowerment and Engagement I*

Moderator: Mary M. Moynihan

Laura Haselton

Major: English

Adviser: Mary M. Moynihan

Gina Lalli

Major: Sociology

Adviser: Mary M. Moynihan

Elizabeth Martin

Major: Sociology

Adviser: Mary M. Moynihan

Nika Short

Major: Women's Studies

Adviser: Mary M. Moynihan

Suzanne Tesoro

Major: English and Women's Studies

Adviser: Mary M. Moynihan

MUB, Room 302

*Video Analysis of Police-Citizen
Communication*

Moderator: Mardi Kidwell

Kara Boucher

Whitney Moore

Meredith Zeicher

Major: Communications

*Some Interactional Problematics of
Police Searches*

Adviser: Mardi Kidwell

Taji Allen

Megan Brown

Garrett Donatelli

Ben Johnson

Major: Communications

Police Use of Force

Adviser: Mardi Kidwell

Erin Donovan

Emily Lawless

Kerri O'Leary

Jaime Staples

Major: Communications

*Body Positioning in Police-Citizen
Encounters*

Adviser: Mardi Kidwell

Michael Haney

Adrian Kerrison

Tom Sanchez

Major: Communications

*"Gettin' Schooled:" Police Lecture
Citizens*

Adviser: Mardi Kidwell

Bryce Casper

Andrew Davis

Nick Laliberte

Mike Zengilowski

Major: Communications

*Accusation and Denial in
Police-Citizen Encounters*

Adviser: Mardi Kidwell

MUB, Wildcat Den

*Educating Students About
Using Credit Wisely—Citibank
Marketing Project*

Moderator: Peter Masucci

Derek Angove

Lindsay Cunningham

Sarah Faasse

Hayley Holmes

Juliana Maitan

Jesse McKay

Sydney Mikkelsen

Alison Milioto

Ian Mitchell

Katelyn Moore

Sheena Ruskowski

Kyle Sevits

Michael Trainor

Lauren Tucker

Stephen Woodruff

Major: Business Administration

Adviser: Peter Masucci

*Research on New Auto
Purchasing—Ford Fusion
Marketing Project*

Moderator: Peter Masucci

Jamie Adams
Melinda Amaral
Katie Bamberger
Ryan Bernier
Angela Blais
Carrie Bourque
Peter Burbank
Matthew Clougherty
John Cosco
Andre DePaula
LeeAnne Desrochers
LeeAnn Flanagan
Ian Frederick
Amanda Guerin
Zoey Gulmi-Landy
Hayley Holmes
Lindsey Jambard
Niari Keverian
Lindsay Lacher-Katz
Brendan Leo
Jennifer Livingstone
Jesse McKay
Thomas Moore
Ethan Robinson
Casey Rosinski
Adam Sandler
Rebecca Sandrue
Michael Savage
Corinne Schmitz
David Tessier
Michael Trainor
Megan Woodman
Major: Business Administration
Adviser: Peter Masucci

**Vice President's
University-wide
Symposium**

*Poster Presentations;
Session B*

**FRIDAY, APRIL 28
10:50 AM–NOON**

MUB, Granite State Room

Magdalen Balz

Major: Communication Sciences
and Disorders

*Electronic Journal Writing: Communi-
cative Freedom for Adults With
Brain Injury*

Adviser: Michael Fraas

Margaret Calvert

Major: Communication Sciences and
Disorders

*Professionals' Attitudes and Beliefs
About Acquired Brain Injury*

Adviser: Michael Fraas

Shellie Chiavetta

Major: Linguistics

*"That Was Totally Intense!": A Study of
Emphatic Adverbial Modifiers in Male
and Female Speech*

Adviser: Naomi Nagy

Maureen Gillespie

Major: Psychology and English

*Hemispheric Sensitivity to
Grammatical Agreement within
a Sentence Context*

Adviser: John Limber

Stephanie Kloek

Major: Biology: Marine and Freshwater

*The Investigation of Anchor Attach-
ment Designs for Pop-up Satellite
Tags used on Atlantic Blue fin tuna,*

Thunnus thynnus

Adviser: Ken Baldwin

Jennifer Lyckland

Major: Biology

*The Effects of Serotonin Depletion on
Intermittent Cold Water Swim Stress-
Induced Depression*

Adviser: Robert Drugan

Jonathan Marshall

Major: Business Administration

Expatriates in Global Commerce

Adviser: Meera Venkatachalam

Abebe Negash

Major: Chemical Engineering

Biodiesel

Adviser: Ihab Farag

Jeffrey Nichols

Major: Computer Science

*Computer Engineering Improved Sim-
ulated Tile Mosaics by Tile Clipping*

Adviser: Alejo Hausner

Satyra Sardonicus

Major: Biochemistry

*Circulating Concentration of Interleu-
kin-18 Binding Protein in Obese and
Non-Obese, Asthmatic and Non-Asth-
matic Women*

Adviser: Anthony Tagliaferro

Joseph Shannon

Major: Natural Resources

*Forestry Effect of Forest Species in a
Watershed on Stream Chemistry at
Bartlett Forest*

Adviser: Jacqueline Aitkenhead-Peterson

David Sodaitis

Major: Physics

*Wave Excitation and Thermal Particle
Acceleration by Interplanetary Shocks*

Adviser: Charles Smith

Andrew Van Hoogenstyn

Major: Psychology

*The Effects of Intermittent Cold Water
Swim Stress on Navigation Learning
and Memory*

Adviser: Robert Drugan

Anna Weaver

Major: Chemistry

EPR Spectroscopy for the Forensic Analysis of Glass

Adviser: N. Dennis Chasteen

Social Work: An Overview of Practice and Service Learning

Sara Horan

Major: Social Work

Building "Family Strength"

Adviser: L. Rene Bergeron

Christina Julian

Major: Social Work

The Children Literacy & Arts Program

Adviser: L. Rene Bergeron

Stephanie Kogut

Major: Social Work

Family Empowerment Project: An Overview

Adviser: L. Rene Bergeron

Allison Proctor

Major: Social Work

Dover Children's Home: Preparing Adolescents for Productive and Independent Lives

Adviser: L. Rene Bergeron

Jeffrey Sellars

Major: Social Work

The Juvenile Probation System: An Overview

Adviser: L. Rene Bergeron

Meghan Shea

Major: Social Work

Resources for Homelessness in New Hampshire

Adviser: L. Rene Bergeron

Courtney Frederick

Major: Social Work

Adolescent Substance Use Prevention and Treatment

Adviser: Robert Jolley

Kristen LaRue

Major: Social Work

Wheel of Community Resources

Adviser: Robert Jolley

Hilary Spurr

Major: Social Work

The Chase Home Program Model

Adviser: Robert Jolley

Katelyn Wagner

Major: Social Work

Stereotypes and Accepting Differences

Adviser: Robert Jolley

Alison Milioto '06

Educating Students About Using Credit Wisely: Citibank Marketing Project

Alison Milioto is pretty responsible with a credit card. She's had one since she was 18 and has learned a lot about budgeting by owning it. So when presented with the opportunity to teach responsible credit card use to other students she jumped at the chance.

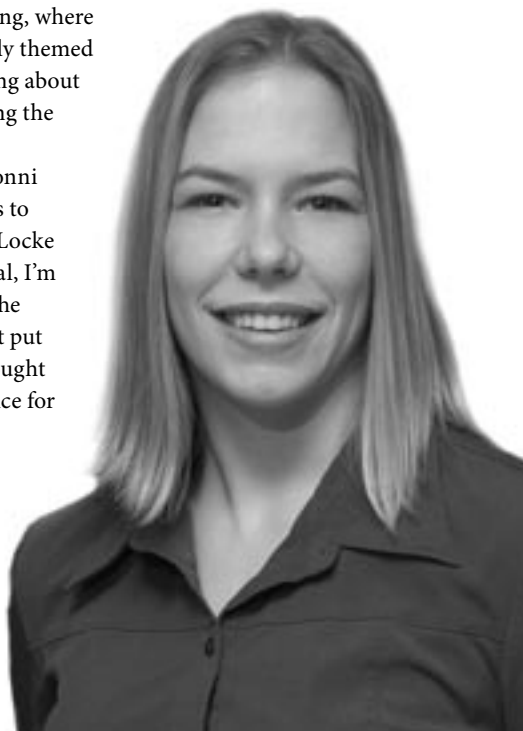
Last semester, Milioto and 15 of her classmates in Peter Masucci's marketing class participated in a Citi/EdVenture program to teach students about avoiding financial problems by maintaining good credit.

Using \$2,500 from Citi/EdVenture, a division of Citibank, Milioto and her peers created their own marketing agency, and set to work. The first step? Their agency, Etavonni (that's "innovate" backwards) Creative Marketing, distributed surveys to more than 450 UNH students, with questions about their credit card use.

Based on the survey results, Etavonni built a campaign strategy, created brochures, a Web site, and even a "responsible credit" event at the Memorial Union Building, where students "traveled" to internationally themed tables (China, Italy, Jamaica) learning about credit, credit ratings, and APRs along the way.

But their work wasn't over. Etavonni then presented the campaign results to its client, Citi Vice President Kerry Locke Bedard. "As a marketing professional, I'm very impressed with the quality of the campaign and the degree of thought put into it," said Locke Bedard, who brought the results back to the corporate office for further analysis.

"What I liked most [about the project] was that we had real-time deadlines and we saw real results," says Milioto. "It was a good experience and showed me how valuable research can be."



Vice President's University-wide Symposium

Oral Presentations; Session B

FRIDAY, APRIL 28
10:50 AM–NOON

**Memorial Union Building (MUB) and
Holloway Commons**

MUB, Wildcat Den

*Marketing Research Projects
featuring Whittemore School of
Business and Economics students*

Moderator: Peter Masucci

Jennifer Livingstone

Major: Business Administration

*Beauty and Advertising: Does Adver-
tising Affect the Body Image of
Adolescent Girls?*

Adviser: Peter Masucci

Sarah Barthelmes

Padraigne Bush

Jillian Coleman

Lensey Dixon

Jonathan Gaffney

Brian Hersey

Rachel Larson

Laura Marandola

Tyler Morrison

Eden Orndorff

Michael Richardson

Jonathan Sears

David Smith

Andrew Tollner

Major: Business Administration

Hannaford Bros. Marketing Project:

New Recruitment Campaign

Adviser: Peter Masucci

Jessa Baillargeon

Michael Card

Justin Connor

Erica Farley

Ethan Goodrich

Rachel Harrison

Justin Joyner

Adam Manley

John McDonough

Ryan Nicholson

Stephanie Olynyk

Kristen Perry

Heidi Rowe

Christina Roy

Matthew Sperazzo

Major: Business Administration

USNH Marketing Project: Influencing

Aspirations of 12-18 Year Olds to

Attend College

Adviser: Peter Masucci

MUB, Rockingham Lounge

*Insights into American and
International Society*

Moderator: Stephen Hale

Jonathan Burg

Major: Sport Studies and Psychology

*The Effects of Athlete Goal Orienta-
tion on Preferred Coach Leadership
Behavior*

Adviser: Karen Collins

Kelsey Dennis

Major: Anthropology

*Leaving Home: A Global Perspective
on the Trends of Young Women*

Adviser: Stephen Reyna

Kristin Harris

Major: English

*Irrational Exuberance: Allegories of
Economic Madness in Eighteenth-
Century Literature*

Adviser: Sean Moore

Kara Houghton

Major: French

*Marketing in American and French
Food Cultures*

Adviser: Barbara Cooper

Caitlin Marrinan

Major: Linguistics and Spanish

*Second Language Acquisition and the
Critical Period Hypothesis: Are Chil-
dren more Efficient Language Learners
than Adults?*

Adviser: Aya Matsuda

Ashley Ward

Major: Psychology

*The Effects of Victim and Perpetrator
Reputation on Physical Distance: Do
Individual Differences Matter?*

Adviser: Ellen Cohn

MUB, Room 233

*Advances in Science at the
Molecular Level*

Moderator: Julian E. Torres

Florence Fong

(McNair Graduate Program)

Major: Microbiology

*Rapid Detection of Enteric Viruses in
Water Through Cell Suspension and
Integrated Cell Culture Real Time
RT-PCR*

Adviser: Aaron Margolin

Loreen Fournier

Major: Biology: Molecular, Cellular, and
Developmental

*Phosphate Groups on Her2 Binding to
Estrogen Receptors: Implications for
Tamoxifen-resistant Breast Cancer*

Adviser: Andrew Laudano

Leolene Jean (McNair Graduate Program)
Major: Biochemistry
Molecular Diversity and Functional Analysis of the Opsin Genes Expressed in Daphnia
Adviser: W. Kelley Thomas

Mark Santos
Major: Microbiology
Transnasal Delivery of a GnRH Analog in Miniature Swine
Adviser: Stacia Sower

MUB, Room 207

Interaction and Representation: On Film, France, Feminism, and Sports
Moderator: Beverly James

Kristin Condon
Major: Communications
The F Word: Feminist Identity Declared or Disavowed by Callers on Talk Radio
Adviser: Beverly James

Ben Guerette
Major: Communications
Native American Sports Mascots: Analysis of the Arguments
Adviser: Beverly James

Rachel Kearns
Major: Communications
'What Made the Red Man Red?': Native American Discourse in Disney
Adviser: Beverly James

Kristen Lewis
Major: Communications
Three Perspectives on Social Problems in France Exposed through Film
Adviser: Beverly James

MUB, Room 302

Informational Exchange through the Mediums of Language, Music, and Computers
Moderator: Rob Haskins

Jessica Cawley
Major: Music Education
Investigating the Ways the Irish Learn Music
Adviser: Susan Hatfield

Chantelle Jacobs (McNair Graduate Program)
Major: English Literature
Evaluating the Feminine Voice in John Donne
Adviser: Janet Gardner

Kraig Lamper
Major: Music Performance and Philosophy
Fluxus as Fragmentation and Continuity
Adviser: Rob Haskins

Jason Lawrence
Major: Music
Beatles Get High with Lucy in the Sky
Adviser: Rob Haskins

Christina Leber
Major: Computer Science
Accelerated Spatial-Directional Queries for Dynamic Scenes
Adviser: Alejo Hausner

MUB, Room 321

Highlighting the Margins: Empowerment and Engagement II
Moderator: Mary M. Moynihan

Jaden Brulotte
Major: Sociology
Adviser: Mary M. Moynihan

Sarah Clinton
Major: Women's Studies
Adviser: Mary M. Moynihan

Meghann McCluskey
Major: English and Women's Studies
Adviser: Mary M. Moynihan

Lindsay Menard-Freeman
Major: English and Women's Studies
Adviser: Mary M. Moynihan

Kristen Mollomo
Major: Women's Studies
Adviser: Mary M. Moynihan

Courtney Strait
Major: Women's Studies
Adviser: Mary M. Moynihan

Holloway Commons, Lamprey Room

Perspectives on Gender-related Issues
Moderator: Catherine Moran

Blaine Butler
Major: Sociology
Masculinities: Gender Identity Development among Heterosexual and Homosexual Men
Adviser: Jean Elson

Erica Downing
Laura Keith
Major: Sociology
Media Effects on Perceptions of Female Attractiveness
Adviser: Jean Elson

Jillian Kalosky
Major: Sociology and Justice Studies
The Impact of Physical Attractiveness in Perceptions of Acquaintance Rape
Adviser: Catherine Moran

Gina Lalli
Major: Sociology
Gender Attitudes Among Men and Women at UNH
Adviser: Catherine Moran

Kara Lowell

Major: English

The Similarities and Differences of Breastfeeding

Adviser: Jean Elson

MUB, Room 332

International Affairs: People at War: Terrorism, Violence, and Civil War

Moderator: Barrett Rock

Lindsay Aleo

Major: Political Science

Separatist Movements: The Fight against the Authoritarian Regimes

Adviser: Lawrence Reardon

Victor Florez

Major: Political Science

La Violencia: Continuing Guerrilla Activity in Columbia

Adviser: Lawrence Reardon

John Hilton

Major: Spanish

Spain and the United States: Unequal Rates of Violent Crimes

Adviser: Lawrence Reardon

Ioannis Karalis

Major: Political Science

The Green Line: The Invasion of Cyprus in 1974

Adviser: Lawrence Reardon

Nathan Smith

Major: Political Science

When Do Terrorists Attack?

Adviser: Lawrence Reardon

Matias Wigozki

Major: Communications

Borders and Desperation: Separatist Movements around the World

Adviser: Lawrence Reardon

MUB, Room 336

International Affairs: Fear of the Other

Moderator: Lori Hopkins

Stephen Calcavecchia

Major: Linguistics

The Gypsy Subculture in Andalusia, Spain

Adviser: Lawrence Reardon

Rana Chakar

Major: European Cultural Studies

The Fear of Acceptance

Adviser: Lawrence Reardon

Andre Hoehl

Major: Political Science

Integration and Cultural Tension in the German Turkish Community

Adviser: Lawrence Reardon

Elsa Rodrigues

Major: Spanish

Effectiveness of Immigration Policies in Spain

Adviser: Lawrence Reardon

Kristen Studley

Major: French

Race Riots in France: New Development or Old News?

Adviser: Lawrence Reardon

Zachary Zoulas

Major: Economics

French Kiss Goodbye: European Immigration Issues and Racism

Adviser: Lawrence Reardon

MUB, Room 338

International Affairs: Preserving Culture and Identity II

Moderator: Edward Larkin

Elizabeth Bougie

Major: Tourism Planning and Development

Food for Thought: France's Culinary Rise to International Recognition

Adviser: Lawrence Reardon

Rachel Harrison

Major: Business Administration

Regionalism and Spanish Cultural Identities

Adviser: Lawrence Reardon

Courtney Hazleton

Major: Anthropology

The Preservation of Tradition in an Increasingly Globalized World

Adviser: Lawrence Reardon

Andrew Masel

Major: Spanish

God's Black Mother: The Influence of Religion in State Censorship

Adviser: Lawrence Reardon

Carrie Nichols

Major: French

Où va notre langue? The Colonization of English in the French Language

Adviser: Lawrence Reardon

MUB, Room 340

International Affairs: Building a More Civil Society

Moderator: Funso Afolayan

Moses Ajou

Major: Economics

The Corruption of Kenya

Adviser: Lawrence Reardon

Michelle Giguere

Major: English

The Censorship has Sailed: Spanish Media and Democracy

Adviser: Lawrence Reardon

Devin Morey

Major: Spanish

Government Oppression during Argentina's Dirty War

Adviser: Lawrence Reardon

Jonathan Van Arsdell

Major: Political Science

State of Democracy: Italy and the Berlusconi Era

Adviser: Lawrence Reardon

Emina Zlotrg

Major: Political Science

Civil Society in Post-conflict State: Case of Bosnia and Herzegovina

Adviser: Lawrence Reardon

MUB, Room 334

Political Science: American Politics

Moderator: Susan Siggelakis

Discussant: Ashley Jane Kneeland

Aleyah Ashour

Major: Political Science and International Affairs

An Insight into Public Opinion of Female Presidential Candidates

Adviser: Lawrence Reardon

Ian Pajer-Rogers

Major: Political Science

Presidential Powers and Judicial Review during the Bush Administration

Adviser: Lawrence Reardon

Ruth Varner

Research Assistant Professor

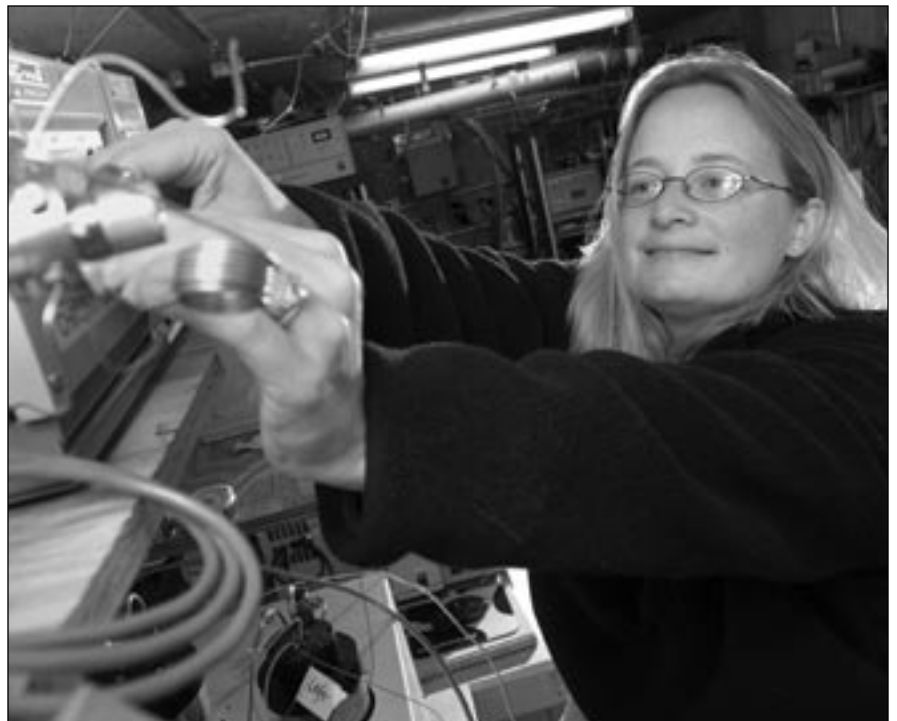
In the dark of night during a steamy stretch of North Carolinian midsummer weather, a team of two students climbs a 15-meter tower to the high branches of pine and sweet gum trees. For the next 45 minutes, they'll take air samples and readings from instruments measuring gas emissions from the trees' branches. It's a process they'll repeat every two hours, around the clock, for 10 straight days.

The students, a UNH undergraduate and Ph.D. candidate, are at the Duke Forest FACE (Free Air CO₂ Enrichment) site working with UNH research assistant professor Ruth Varner. They are studying how plants respond to an increased CO₂ environment and how this may impact future air quality. The work is as important as the schedule is grueling.

"We know CO₂ is increasing and will continue to increase," says Varner. "What we're not sure about is how the natural ecosystems will respond," she adds.

Varner is part of UNH's Climate Change Research Center. Closer to home, she and her students study gas emissions at diverse local field sites and in her Morse Hall lab, where she is working with UNH sophomore Jordan Goodrich to examine emissions of methyl halides from fungi as part of a National Science Foundation-funded study. "Methyl halides are important in the atmosphere because halogen atoms can destroy ozone," the barrier protecting Earth from solar radiation, Varner says. "Jordan has been growing the fungi and running air samples on a gas chromatographer," work he will continue during the upcoming summer break.

"What I like about working with undergraduates is they bring a fresh perspective to the research," says Varner.



Political Science: Comparative Politics

Moderator: Mary Malone

Discussant: Stephanie Bramlett

Virginia de Freitas-Battersby

Major: Political Science and International Affairs

The Barriers between the Kitchen and the Campaign: Women's Political Participation in Latin America

Adviser: Lawrence Reardon

Amanda Diegel

Major: Sociology and International Affairs

Struggling with Democracy: A Comparative Examination of Legitimacy in Venezuela and Argentina

Adviser: Lawrence Reardon

Shana Friedman

Major: Political Science

A Comparative Analysis of the Democracies in Mauritius and Madagascar

Adviser: Lawrence Reardon

Kelly Vogel

Major: Political Science

Reproductive Rights for Chinese Women

Adviser: Lawrence Reardon

MUB, Room 330

Contemporary Configurations of Gender in the United States

Moderator: Melissa Deem

Sarah Coleman

Major: Communications

Rushing Sisterhood: Sorority Culture and Rivalry within Gender

Adviser: Melissa Deem

Jamie Dellorusso

Major: Communications

Outing the Secret: Hypersexuality on the Down Low

Adviser: Melissa Deem

Lauren Story

Major: Communications

Title IX and the Feminist Challenge to Masculinist Hegemony in U.S. Sports Culture

Adviser: Melissa Deem

Kristen Woodruff

Major: Communications

Girls Gone Wild: Academic Culture and the Reinvigoration of the College Coed

Adviser: Melissa Deem

Holloway Commons, Cocheco Room

Perception: The Mind at Work

Moderator: Sharyn Potter

Emily Belmonte

Major: Sociology

Gendered Aspirations

Adviser: Sally Ward

Faith Gatcomb

Major: Sociology

Are Female College Student's Perceived Fears Matching the Actual Danger?

Adviser: Sharyn Potter

Melissa Mangold

Major: Sociology and Justice Studies

Perceptions of Hate Crimes on a College Campus

Adviser: Sally Ward

Sarah Miles

Major: Anthropology

Dar es Salaam, Tanzania: The Organization and Mobilization of Women in NGOs

Adviser: Joe Lugalla

Sarah Raymond

Major: Sociology

Crime, Deception, and the Misleading of the American Public

Adviser: Sharyn Potter

Honors English Undergraduate Research Conference

FRIDAY, APRIL 28

NOON–5 PM

Hamilton Smith Hall, English Department Lounge, Rooms 128 & 129

In order to complete Honors-in-English, students are required to conduct a semester-long research project, culminating in a 30–40 page senior thesis. The Honors English Undergraduate Research Conference provides these students with the opportunity to share their work with fellow students, professors, and families. The presentations are wide-ranging, from original poetry to autobiographical criticism to scholarship on literature, spanning the medieval period to the twenty-first century.

Lindsay Burke

Major: English

Women in Renaissance Drama

Adviser: Douglas Lanier

Molly J. Cooper

Major: English

Bad Girls: Romantic Feminine Rebellion in Renaissance Drama

Adviser: Douglas Lanier

John Eaton

Major: English

From This Point Onward, There Are No Maps: Short Stories

Adviser: Alexander Parsons

Patricia Grennen

Major: English

The Sentimental Novel of the Eighteenth Century: A Discussion of Works by Mackenzie, Sterne, and Austen

Adviser: Sean Moore

Catherine Huettnner

Major: English

William Faulkner and the Endurance of Modern Man

Adviser: Delia Konzett

Meaghan James-Rapp

Major: English

The Peyton Place Tradition: Breaking the Mold of Femininity in Small Town New England

Adviser: David Watters

Jessica Nelson

Major: English

Last Dance: Alzheimer's Rhythm

Adviser: Andrew Merton

Jaclyne M. Salzillo

Major: English

Gossip as Narrative in the Eighteenth Century

Adviser: Sean Moore

Jacqueline Silva

Major: English

One Last Bell: A Collection of Poetry

Adviser: Lisa Miller

School of Health and Human Services Grimes Award Competition

FRIDAY, APRIL 28

12:30–3:30 PM

Pettee Hall, Room G10

Jack and Marianna Grimes and family, all UNH graduates, endowed the funds for this celebration of excellence in undergraduate research. This oral presentation competition includes finalists who have been selected by School of Health and Human Services faculty after rigorous scientific review of written proposals.

(Information on participants will be available at this event.)

Psychology George M. Haslerud Undergraduate Research Conference

FRIDAY, APRIL 28

1–4 PM

Conant Hall, Room 101

The George M. Haslerud Undergraduate Research Conference, named for the late professor emeritus of psychology, recognizes and celebrates undergraduate research conducted by psychology students.

Nicholas Adams

Major: Psychology

The Effects of Catecholaminergic and Cholinergic Enhancement on Covert Orienting and Alerting in Visuospatial Attention

Adviser: William Stine

Laura Comley

Major: Psychology

Memory in the Classroom with Particular Attention to Math Conceptualization and How it Relates to Memory

Adviser: Michelle Leichtman

Alyssa Fenton

Major: Psychology

The Protective Function of Spirituality on Depression in Older Adult Widows

Adviser: Toni Bisconti

Jesse Gag

Major: Psychology

Attitudes and Knowledge of the Legal System as it Relates to the Level of Watching Crime-Related Dramas on Television

Adviser: Carolyn Mebert

Amy Kaye

Major: Psychology

Parenting in Adult Survivors of Child Sexual Abuse: Examining Resilience

Adviser: Victoria Banyard

Rebecca Peake

Major: Psychology

Romantic Relationships and College Students: A Study of Subjective Well-being in Undergraduates

Adviser: Victor Benassi

Kristina Schmid

Major: Psychology

Autobiographical Memories of Parent-Adolescent Experience

Adviser: David Pillemer

Andrew Van Hoogenstyn

Major: Psychology

The Effects of Intermittent Cold Water Swim Stress on Navigational Learning and Memory

Adviser: Robert Drugan

Mary Veronica Vandoloski

Major: Psychology

Verb Tense as a Predictor of Listener's Reactions to Autobiographical Narratives

Adviser: David Pillemer

Kara Vigliatura

Major: Psychology

Memory in the Classroom

Adviser: Michelle Leichtman

Erinn Walsh

Major: Psychology

Personal-event Memory in Adults with and without ADHD

Adviser: Michelle Leichtman

Festival of Creativity and Culture

FRIDAY, APRIL 28

3:30–5:30 PM

Hennessy Theatre, Paul Creative Arts Center

At this event, students from various disciplines share their artistic projects through a unique combination of performance and scholarly presenta-

tion. Students will discuss how they were inspired, how they prepared for the event, and how their UNH experiences are preparing them for careers in the arts.

Albert Craig

Major: Music

The Trek of John Jacob Niles

Adviser: Rob Haskins

Rachel Brodeur

Rachel Elias

Megan O'Connor

Courtney Trudeau

Major: Theatre and Dance

Sapphire Project

Adviser: David Richman

Chris Jackson

Major: Theatre and Dance

The Sunglass Variations: The Actor as Creative Artist

Adviser: David Kaye

Kraig Lamper

Major: Music

Fluxus as Fragmentation and Continuity

Adviser: Rob Haskins

Jason Lawrence

Major: Music

Music Beyond Words: Sonic Representations of Drug Euphoria

Adviser: Rob Haskins

Harmony Stempel

Major: Theatre and Dance

Last Chance for Power

Adviser: David Richman

Amanda Putnam '06

The Role of Cytokeratin-8/18 in Cell Death within the Corpus Luteum

Amanda Putnam spent the summer of 2005 analyzing the ovarian structure of cows in an effort to better understand bovine infertility. She divided her time between the UNH dairy facility, where she collected cell samples from ovaries of cows in their luteal or pre-pregnancy phase; and the lab, where she stained the cells with fluorescent markers and analyzed them for incidence of cell death using a sophisticated cell-sorting machine.

"I liked how the research was contingent upon many different procedures and processes. It was never boring," says Putnam, an animal science major who is planning a career in biotechnology. She defends her research at the 15th annual COLSA Undergraduate Research Conference on Saturday, April 29.

"If one could capture lightning in a bottle, Amanda personifies this," says David Townson, associate professor and adviser to Putnam over the past four years. "She's an exceptional student, an eager investigator, and a wonderful person."

Earlier this month, Putnam received the prestigious 2006 University Women's Award, which recognizes a student who shows the greatest promise through character, scholarship, leadership, and usefulness to humanity.



Philosophy Undergraduate Research Conference

FRIDAY, APRIL 28

4–8:30 PM

**The Waysmeet Center, 15 Mill Road
(see map page 5)**

The Philosophy URC is a mosaic of concise and meaningful student presentations, varying from such philosophical topics as deontological ethics to Pyrrhonian skepticism to social justice. Presentations are

followed by a brief question and answer period. All are welcome and sincerely encouraged to attend. Refreshments will be served.

Elias Abdallah

Major: Philosophy, Political Science, and Humanities

Dying Souls

Adviser: Drew Christie

Ryan Abbott

Major: Philosophy

Habermas' Critique of Adorno

Adviser: Nick Smith

Roger Eichorn

Major: Philosophy and History

Philosophy and Common Life:

Skeptical Crisis or Dogmatic Crisis?

Adviser: David Hiley

Mark Joseph

Major: Philosophy and English

Can Kant Accommodate

Supererogation?

Adviser: Paul McNamara

PJ Niver

Major: Philosophy and Humanities

Nietzsche as Educator

Adviser: David Hiley

Martin Rowley Jr.

Major: Philosophy

Individualism and the Self

Adviser: David Hiley

Hannah Varn

Major: Philosophy and English

What Words Can Do

Adviser: Kathy Miriam

Student Composers Concert

FRIDAY, APRIL 28

8 PM

**Bratton Recital Hall,
Paul Creative Arts Center**

The UNH Student Composers Concert is an annual event featuring the works of undergraduate and graduate students in the Department of Music. The music is newly composed and is almost exclusively performed by fellow music students.

Joel Biedrzycki

Major: Music Performance

Woodwind Quintet

Adviser: Nicholas Orovich

Tom Bourgault

Major: Music Education

Quintet for Winds

Adviser: Mark DeTurk

Nat MacDonald

Major: Music

Piano Piece

Adviser: Chris Kies

Tim Miles

Major: Music Education

String Quartet: Music for Clarinet and Percussion

Adviser: Mark DeTurk

Dan Noronha

Major: Music

String Quartet No. 1

Adviser: Chris Kies

Nate Therrien

Major: Music Education

Piece for Clarinet, Vibraphone, and Bass

Adviser: Larry Veal

Scott Thibodeau

Major: Music Education

Solo for Unaccompanied Clarinet

Adviser: Andrew Boysen

15th Annual COLSA Undergraduate Research Conference

SATURDAY, APRIL 29

7:45 AM–2 PM

New England Center, Great Bay Room

Student presentations at the 15th annual COLSA URC are based on research work done in any of the college's departments and run the full gamut of research found in the college from field studies to developmental and molecular biology and genomics studies. A number of studies are collaborative efforts between work here at UNH and work carried out in foreign countries. The COLSA URC is funded by the College of Life Sciences and Agriculture, Dean's Office and Departments; the Office of Academic Affairs, the Office of Research and Public Service, the Marine Program, the Office of Sponsored Research, and the Center for Undergraduate Research.

Elisha Allan

Major: Biology: Ecology, Evolution, and Behavior

Barcoding of the Growth Stages of Two Freshwater Calanoid Copepod Species

Adviser: James Haney

Lisa Bedford

Major: Biology: Molecular, Cellular, and Developmental

The Influence of Endogenous Circadian and Circatidal Clocks on Horseshoe Crab (Limulus polyphemus)

Locomotion

Adviser: Winsor Watson

Janelle Bosse

Major: Biology: Ecology, Evolution, and Behavior

Effective Sampling of Beetles: A Comparison of Terrestrial Invertebrate Sampling Techniques in the Hunua Ranges, New Zealand

Adviser: Kim Babbitt

Jill Brelsford

Major: Microbiology

A Tale of Two Sigma Factors

Adviser: Cheryl Whistler

Jennifer Busse

Major: Biochemistry

In Vitro Studies of Mechanisms of Nutrient Supply to Oocytes During Oogenesis and Localization of Stem Cells in the Green Sea Urchin

Adviser: Charles Walker

Sarah Comeau

Major: Microbiology

Characterization of a Novel Bacteriophage in the Burkholderia cepacia Complex

Adviser: Vaughn Cooper

Steven Conaway

Major: Environmental Horticulture

Evaluation of Biological and Chemical Fungus Gnat (Bradysia spp.) Controls for Production of Vegetative Cuttings in Greenhouse Settings

Adviser: Paul Fisher

Hieu Doan

Major: Biology: Molecular, Cellular, and Developmental

Effects of Aluminum and/or Cadmium on Growth and Cellular Metabolites in Suspension Culture of Red Spruce (Picea rubens)

Adviser: Rakesh Minocha

Sarah Eisenlord

Major: Microbiology

The Effects of Warming on Soil Microbial Metabolism

Adviser: Serita Frey

Celeste Eno

Major: Biology: Marine and Freshwater

Production of Triploids and Karyotyping the Green Sea Urchin, Strongylocentrotus drobachiensis

Adviser: Charles Walker

Evan Jordan

Stephan Pirnie

Major: Biology: Molecular, Cellular, and Developmental

Harnessing the Power of an Invasive Species: Creating a Bioremediator out of Purple Loosestrife

Adviser: Subhash Minocha

Stephanie Fardy

Major: Environmental and Resource Economics

Exeter River Watershed Vulnerability Analysis: Data

Adviser: John Halstead

Darren Ferguson

Major: Animal Science: Bioscience and Technology

Steroid Hormone Concentrations during the Reproductive Cycle of the Female Smooth Skate, Malacoraja senta

Adviser: Paul Tsang

Loreen Fournier

Major: Biology: Molecular, Cellular, and Developmental

Phosphorylation of Her2/neu Creates a Binding Site for Estrogen Receptors: Implications for Tamoxifen-resistant Breast Cancers

Adviser: Andrew Laudano

Brianna Heath

Major: Wildlife Management

Home Range Establishment and Dispersal of Yearling Moose in Northern New Hampshire

Adviser: Peter Pekins

Leolene Jean

Major: Biology

Molecular Diversity and Functional Analysis of the Opsin Genes Expressed in Daphnia

Adviser: Kelley Thomas

Christie Klisz

Major: Biochemistry

Identification of Trans Acting Factors Controlling Opsin Gene Expression

Adviser: Karen Carleton

Angela Kuehn

Major: Microbiology

Rotting to Success: Experimental Evolution of Burkholderia in Onions

Adviser: Vaughn Cooper

Jennifer Loquine

Major: Animal Science

Expression Pattern of the CPK5 Gene in Arabidopsis thaliana

Adviser: Estelle Hrabak

Matthew Lubicky

Major: Biology: Marine and Freshwater

Genetic Analysis of Cod Stocks in the Gulf of Maine

Adviser: David Berlinsky

Courtney Miller

Major: Microbiology

*The Effects of Environmental Conditions on Phototaxis of *Paramecium* *temperata* Biofilm Formation*

Adviser: Louis Tisa

Ethan Miller

Major: Bioscience and Technology

*Facilitation and Inhibition of Trap Closure in *D. muscipula* through Manipulation of Membrane Aquaporin and Potassium Channels*

Adviser: Wayne Fagerberg

Heather Moulton

Major: Wildlife Management

*Using Site Occupancy to Assess Population Health of Hochstetter's Frogs (*Leiopelma hochstetteri*) in the Kokako Management Area*

Adviser: Kimberly Babbitt

Jennifer Murphy

Major: Medical Laboratory Science

Effects of the Notch-1 Receptor on the Differentiation Status of Human Liposarcoma Cells

Adviser: Deena Small

Hristina Natcheva

Major: Biology

*Targeted Mutagenesis in the Moss *Physcomitrella patens**

Adviser: Estelle Hrabak

Brenton Paoletta

Major: Biology: Molecular, Cellular, and Developmental

*Identifying Components of the Circadian Clock that may Entrain Germ-line Stem Cell Mitosis in the Green Sea Urchin, *Strongylocentrotus drobachiensis**

Adviser: Charles Walker

Anna Pape

Major: Dairy Management

Land Values Based on Corn and Hay Production in New Hampshire

Adviser: Doug Morris

Paul Pepler

Major: Environmental Science

Forest Canopy Recovery After Reduced Impact Logging in Amazonia

Adviser: Michael Keller

Amanda Putnam

Major: Animal Science: Bioscience and Technology

The Role Of Cytokeratin-8/18 in Cell Death within the Corpus Luteum

Adviser: David Townson

Jonathan Quade

Major: Biochemistry

Structure, Function, and Regulatory Differences of Rod and Cone Photoreceptor Phosphodiesterase (PDE6)

Adviser: Rick Cote

Mark Santos

Major: Microbiology

Transnasal Delivery of a GnRH Analog in Miniature Swine

Adviser: Stacia Sower

Chris Glynn '06

Brain Computer Interfaces and Computational Modeling

Why is an electrical engineering major studying the prehistoric lamprey, the oldest living representative of the first vertebrates? Chris Glynn was driven by an interest in biological applications to electrical engineering. He teamed up with computer engineering major Jason Dahlstrom to study a lamprey brain-computer interface, then modeled the brain's functions as the lamprey orients itself to ambient light.

Glynn says the project exposed him to many different aspects of electrical engineering, including signal processing, modeling, and components of controls and mechanics. "In my education, these were topics that were treated as independent," he says. "In this project, all of these skills and subjects merged."

Glynn presents his work at the Interdisciplinary Science and Engineering Symposium (ISE) on Wednesday, April 26 in the Morse Hall atrium.



Satya Sardonicus

Major: Biochemistry

Circulating Concentration of Interleukin-18 Binding Protein in Obese and Non-Obese, Asthmatic and Non-Asthmatic Women

Adviser: Anthony Tagliaferro

Lindsay Scott

Major: Environmental Conservation

Effects of Long Term Soil Warming on Soil Respiration

Adviser: Serita Frey

Kristine Seigars

Major: Microbiology

Neutrophil Binding to Salmonella typhimurium and Salmonella enteritidis in their Wildtype, Mutant, and MBL-bound Forms

Adviser: Thomas Pistole

Joseph Shannon

Major: Forestry

Effect of Forest Species in a Watershed on Stream Chemistry at Bartlett Forest

Adviser: Jacqueline Aitkenhead-Peterson

Daniel Vail

Major: Biochemistry

North American Red Spruce Migration Pattern Inferences from Molecular Analysis of Intraspecific Genetic Variation

Adviser: Anita Klein

Nicole Young

Major: Animal Sciences

Cytokeratin 8/18 Intermediate Filaments and their Role in Regression of the Bovine Corpus Luteum

Adviser: David Townson

Whittemore School of Business and Economics Paul J. Holloway Business Plan Competition

WEDNESDAY, MAY 3
8 AM-2 PM

**Piscataqua and Swampscott Rooms,
Holloway Commons**

The Paul J. Holloway Business Plan Competition is an integral part of the undergraduate experience at the Whittemore School. Students are required to research and prepare business plans, which they present to a panel of industry leader judges. Prizes are awarded for the most feasible and fundable plans for starting, acquiring, or expanding a business venture.

(Information on participants will be available at this event.)

Mary Louise Fernald Nursing Research Symposium

WEDNESDAY, MAY 3
8 AM-12:30 PM

MUB, Strafford Room

The Mary Louise Fernald Nursing Research Symposium is a program of scholarly presentations by undergraduate honors students and graduate students.

Sarah Belisle

Master's Research Project: Healthy Start: A Prevention Program to Address Childhood Obesity

Adviser: Pam DiNapoli

Angela Braswell

Master's Research Project: A Pilot Project to Identify Factors Affecting Nurses' Decision to Administer As-needed Analgesics to Nursing Home Patients with Dementia

Adviser: Raelene Shippee-Rice

Roberta Compagna

Master's Research Project: College Student's Knowledge of HPV

Adviser: Lynette Ament

Rachel Corr

Major: Nursing

Cigarette Smoking as a Risk Factor for Abnormal Pap Smears: An Integrative Literature Review

Adviser: Lynette Ament

Christine Crawford

Master's Research Project: Women and Cardiac Rehabilitation: The Effect of In-patient (Phase I) Consultation on Referral to Out-patient (Phase II) Programs

Adviser: Susan Fetzer

Patricia Grobecker

Master's Research Project: Comparison of Health Status of Adolescents Using BMI: A Study of Lowell High School Students

Adviser: Pam DiNapoli

Elizabeth Hale-Campoli

Master's Research Project: Handoffs-Clarifying Communication and Improving Patient Care

Adviser: Gene Harkless

Shawna Healy

Master's Research Project: Cardiovascular Risk Modification in the College Student

Adviser: Pam DiNapoli

Cheryl Laferriere

Master's Research Project: Exploring Effects of Music on Anxiety of Patients Undergoing a Colonoscopy

Adviser: Susan Fetzer

Leslie Larsen

Master's Research Project: The Evaluation of Teaching Undergraduate Nursing Students Pediatric Clinical Skills Through Simulation

Adviser: Pam DiNapoli

Dorothy Normile

Master's Research Project: Do Nursing Homes in New Hampshire Use Alcohol Hand Rubs?

Adviser: Gene Harkless

Jennifer Perkins

Major: Nursing

The Health Care Experiences of International College Students

Adviser: Gene Harkless

Susan Reeder

Master's Research Project: Measurement of Health Status in Adult Burn Patients

Adviser: Gene Harkless

Rizwana

Master's Thesis: Attitudes and Current Practices during Intrapartum Period of Maternity Care Providers in India

Adviser: Gene Harkless

Ashley Jeffery**Katie Roy**

Master's Research Project: Over-the-Counter Emergency Contraception and Changes in Contraceptive Behaviors and Practices of College Students

Adviser: Gene Harkless

Jane Sobolov

Master's Research Project: The Forfeiture of a Driver's License by an Elder: The Experience of Family

Adviser: Janice Foust

Chemistry Department Poster Exhibition

FRIDAY, MAY 5

2:30-4 PM

Parsons Hall, Iddles Foyer

This exhibition is the result of students' yearlong senior thesis research in such areas as organic, inorganic, physical, or analytical chemistry, and under the direction of their research adviser.

Adam Csakai

Major: Chemistry

Tandem Chain Extension Aldol

Reaction of β -Keto Imides

Adviser: Charles Zercher

Joseph Dunn

Major: Chemistry

Adviser: Glen Miller

Matthew Guay

Major: Chemistry

Atmospheric Halocarbon Measurements: A Companion of Two in situ GC Systems to Canister Sampling

Advisers: Howard Mayne and Barkley Sive

Laura Gustafson

Major: Chemistry

Diaminosarcophagine, CB-TE2A and TMpyP: A Comparative Kinetics Study of Inertness and Stability

Adviser: Edward Wong

Timothy Henderson

Major: Chemistry

Attempted Stereo Selective Synthesis of Tetrahydrofuran Rings

Adviser: Charles Zercher

Richard Luciano

Major: Chemistry

Advisers: Howard Mayne and Barkley Sive

Tara Rix

Major: Chemistry

Trace Gas Detection using Cavity Ring-down Spectroscopy

Adviser: John Dudek

Anna Weaver

Major: Chemistry

EPR Spectroscopy for the Forensic Analysis of Glass

Adviser: N. Dennis Chasteen

Peter Widger

Major: Chemistry

Synthesis and Characterization of New Tricyclic Tetraamines

Adviser: Gary Weisman

Expanded horizons



Maggie Balz

Many students broaden their research experience by taking their findings on the road to present at national conferences and professional meetings.

Junior Maggie Balz is one of them. Last semester she headed west to the American Speech, Language, and Hearing Association's national convention in San Diego to present the results of her study on how electronic journal writing helps persons with brain injuries communicate.

In addition to having the chance to present her work to future colleagues, Balz says "it was really great to see how many career choices I'll have with my degree. I didn't realize how many specialties of speech pathology existed until I attended this conference."

See Balz's poster presentation "Electronic Journal Writing: Communicative Freedom for Adults with Brain Injury" at the Vice President's University-wide Symposium on Friday, April 28 at the MUB.



Kirsten Hutchison and Derek Pouliot

Math majors Kirsten Hutchison and Derek Pouliot spent ten summer weeks searching for unexplored based rings and disproved Kaplansky's 1973 Conjecture in the process. A based ring, a collection of characters that can be added and multiplied, is worth studying, according to Pouliot, because there's still a lot to be discovered about them. "It's something that hasn't been the focus of a lot of research," he says, "even at the graduate level."

At the suggestion of their faculty mentor, Associate Professor Dmitri Nikshych, the pair applied for and was awarded a Summer Undergraduate Research Fellowship (SURF) which enabled them to work on computations and write a computer program that searches for based rings.

Earlier this month, Hutchison and Pouliot presented their findings at the National Conference on Undergraduate Research in Asheville, North Carolina.

Capital! in the Capitol

Eleven student researchers represented the University of New Hampshire at the UNH Legislative Breakfast in Concord on April 19. An annual spring event, the breakfast brings New Hampshire Senators and key leadership from the New Hampshire House together with some of UNH's finest student researchers to discuss their work and findings.

This year's participants represented the diverse array of research underway at UNH in all disciplines; from music, to nursing, chemistry, animal science, and beyond.

2006 Legislative Breakfast presenters:

Abebe Negash, Concord, N.H.

Joe Pearson, Barrington, N.H.

Emmanuel Pitia, Manchester, N.H.

Chemical Engineering

Testing Biodiesel Fuel in Small Diesel Aircraft Engines

Jessica Cawley, Manchester, N.H.

Music Education

Investigating the Ways the Irish Learn Music

Magdalen Balz, Portsmouth, N.H.

Communication Sciences and Disorders

Electronic Journal Writing: Communicative Freedom for Adults with Brain Injury

Chad Saindon, Kingston, N.H.

Health Management & Policy

PhysicalBest Program Increases Children and Adolescent Fitness to Healthy Levels

Duane Hudgins, Sandown, N.H.

Naoufal Souitat, Rabat, Morocco

Mechanical Engineering

Emission Tomography

Catherine Overson, Weare, N.H.

Psychology

Perinatal Loss: Possible Caregiver Barriers

Amanda Putnam, Peru, Maine

Animal Science: Bioscience and Technology

The Role of Cytokeratin-8/18 in Cell Death within the Corpus Luteum

Anna Keim Weaver, South Berwick, Maine

Chemistry (Biology minor)

EPR Spectroscopy for the Forensic Analysis of Glass

2005 Legislative Breakfast



URC 2005 Awards of Excellence

Last year, the Undergraduate Research Conference distributed more than \$12,000 in scholarships and travel grants to student participants for their award-winning work. The following University offices and departments sponsored these awards: The Office of the Vice President for Student and Academic Services, the Office of the Vice President for Research and Public Service, the Center for Undergraduate Research, the Institute for the Study of Earth, Oceans, and Space, the New Hampshire Space Grant Consortium, the College of Engineering and Physical Sciences, the Environmental Research Group, and the Marine Programs.

The following returning undergraduates received \$500 scholarship awards of excellence.

Amy Blaisdell '06

The "Loaded Question" in Police Interrogations

Michael Bruce '06

*Electron Microscopy of Shell Disease in *Homarus americanus**

Milena Doerfer '06

Post Traumatic Stress Disorder and EEG Assymetry in Vietnam Nurses

Heather Drayton '05

Parents Perceptions of the Imaginary Companions of their Preschool Children

Jesse L. Gauthier '06

Obsessed

Victoria Lynn Hebert '08

Students against Cancer

Jillian Kalosky '06

Attitudes towards Rape Myths, Acquaintance Rape, and Reporting

Benjamin T. MacBride '07

Application of the Kolmogorov 4/5 Law to Interplanetary Turbulence

Emily Olsen '06

Writing as Activism

The following undergraduates received \$750 travel grants to present their award-winning research at a professional conference.

Candice Carbone '05

The Many Languages of Spain: Linguistic Evolution and Influence on Contemporary Spain

Nicholas Dellas '05

Texture Formation in Thin Films During Sputter Deposition

Robert DiFabio '05

Energy Dependent Charge States in Impulsiv Solar Energetic Particle Events

Matthew Fortier '05

Active Noise Cancellation

Jacquelyn Frasca '05

Sondra Seppala '05

The Effect of Parental Marital Status and the Parent-Adolescent Relationship on Sexual Risk Taking Behaviors: An Archival Analysis of the New Hampshire 2000–2001 Teen Assessment

Stephen Hatfield '05

*Identification of the Subcellular Localization of Calcium-Dependent Protein Kinases in *Arabidopsis thaliana**

Hallory Oberg '06

The Remaking of the Family in US Public Culture

Claire Treat '05

The Interannual Variations in Methane Emissions from a Temperate Peatland

Alexander Unrein '05

A Data Acquisition System for Biofouled Open Ocean Aquaculture Netting—The Design, Analysis and Construction

Lara Woolfson '05

The Photographic Self Portrait as a Rhetorical Genre

Bigger and better...More than \$23,000 in scholarships and awards will be presented at this year's URC. These awards are made possible by the Center for Undergraduate Research, the Office of the Vice President for Student and Academic Services, the UNH Parents Association, the College of Engineering and Physical Sciences dean's office, the College of Life Sciences and Agriculture dean's office, the College of Engineering and Physical Sciences Alumni Association, the Environmental Research Group, the New Hampshire Space Grant Consortium, the Institute for the Study of Earth, Oceans, and Space, and Phi Beta Kappa.

A commitment to undergraduate research

Passion for research: It's the defining factor of a UNH education and it is exactly what you will see at this week's URC. The conference is an annual reflection of the remarkable work taking place among motivated undergraduates and active faculty researchers here at UNH.

This student-faculty collaboration is the backbone of the UNH experience. It begins in the classroom with research-intensive coursework, but exists everywhere across campus and beyond. Look around and you'll find undergraduates in faculty labs, teaming up with their teachers to find solutions that benefit society. You'll see them in UNH's many living labs such as the greenhouses, the farms, and the New England Center; or at one of more than 40 centers and institutes dedicated to studying a wide range of issues, where undergraduates conduct research alongside experts in their fields.

One way these undergraduate-faculty relationships are developed is through UNH's Center for Undergraduate Research, which provides students with the opportunity to make research and creative explorations a more formal part of their academic experience. Each semester, dozens of students from varied academic disciplines apply for grants and fellowships from the center's Undergraduate and International Research Opportunities Programs (UROP and IROP). The funds enable them to embark on their own projects, just as professional researchers do, and requires the same elements, from proposal to budget to research to report. Many of the students presenting here this week conducted their research using UROP and IROP grants.

The students you will meet at URC '06 are searching for rare frogs in New Zealand rainforests, composing their own music, building a hovercraft, and growing fluorescent flowers. This direct participation in meaningful research is one of the unique characteristics of a UNH education, where students, together with faculty, are pushing back the frontiers of knowledge.

Center for Undergraduate Research
www.unh.edu/undergrad-research

Centers and Institutes at UNH
<http://www.unh.edu/orps>

Research and Discover
www.eos.sr.unh.edu/researchanddiscover

University Honors Program
www.unh.edu/honors-program

Center for International Education
www.unh.edu/cie

The URC is but one means for students to disseminate their findings. Some of the works you see here today might become the basis of an Honors or master's thesis; others may find their way to national conferences and professional meetings where UNH undergraduates present their work to future colleagues and peers; still others may appear in *Inquiry*, UNH's online journal of undergraduate research. Published annually, *Inquiry* features the research articles, briefs, and commentaries of undergraduates. The second volume is now online. In this edition, readers will find works on "painting as meditation," an analysis of Guatemalan ceramics, a study of emphatic adverbial modifiers in speech, and much more, including a look at Lindsey Kendrick's work on African violets. Kendrick, a senior pre-vet major, designed a research project aimed at producing fluorescent flowers and plants. Here is an excerpt from her commentary in *Inquiry*.

Sometime in December of 2004—I should really remember the date—I realized there was no better feeling than that of accomplishment. I was standing in a basic cell culture room in Rudman Hall, where fluorescent bulbs lit up Petri dishes containing plant cultures of all kinds. Tiny sprouts of new tissue grew from the five sections of leaves I had cut and placed on the simple agar only weeks before. Perfect little clones, they were bright green like new plants in the spring. I was only a month into my independent study in the plant biology department and nowhere near the completion of my project to create fluorescent African violets, but I will never forget the sense of pride that swept over me that day.

Read on at www.unh.edu/inquiryjournal.

URC '07

To learn more about participating in the 2007 Undergraduate Research Conference, check out www.unh.edu/urc.

Acknowledgments

The UNH Undergraduate Research Conference has grown to become a signature event at the University and an annual highlight of the spring semester. One of the largest and most diverse conferences of its kind, bringing the URC to fruition each year is the result of a collaborative, behind-the-scenes network of a great many campus community members. Here, we acknowledge these individuals and thank them for helping make URC '06 happen.

Special thanks to:

Center for Undergraduate Research
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Editorial and Creative Services (Student staff members Nicholas Gosling '06, Laila Ballout '08, Laura Smetana '08)
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Office of the Vice President for Student and Academic Services
The University Honors Program
University Hospitality Services
UNH Marine Programs
UNH Parents Association
UNH Photographic Services
Web Solutions
Elizabeth Milliken '06, Paula Pelletier '06, and Carly Kinch '06 (URC 2006 Evaluation Project)
Pi Kappa Alpha

2006 URC Event Coordinators:

Mark Annicchiarico, Student Composers Concert
Janice Chadwick, Psychology George M. Haslerud URC
Grant Cioffi, Seacoast Reads Exhibition
Jane Dufresne, Mary Louise Fernald Nursing Research Symposium
Wayne Fagerberg, 15th Annual COLSA URC
Marianne Fortescue, Office of Community Service Partnerships
Rachel Trubowitz, English Undergraduate Honors Conference
Cynthia Giguere, Thompson School Undergraduate Student Showcase
Kate Hanson, Thompson School Community Service and Leadership Program
Rob Haskins, Festival of Creativity and Culture
George Hurtt, Interdisciplinary Science and Engineering Symposium
Mark Joseph, Philosophy URC
Regina McCarthy, UNH Manchester URC
Cynthia Nizzari-McClain, Whittemore School of Business and Economics, Paul J. Holloway Business Plan Competition

Cindi Rohwer, Chemistry Department Poster Exhibition
Lucy Salyer, History Department URC
Lisa Townson, Festival of Creativity and Culture
Neil Vroman, School of Health and Human Services, Grimes Award Competition
Catherine Wright, Senior B.A. and B.F.A Exhibition Preview Reception

2006 Conference Planning Committee:

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Cameron Wake, Faculty Fellow, Office of the VP for Research and Public Service and Research Associate Professor, Climate Change Research Center
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The **Undergraduate Research Conference**
at UNH is proud to present an evening with. . .

**Pulitzer Prize-winning
author and global
health expert**

Laurie Garrett

on “Pandemic Security”



Can it still be assumed that the government can and will protect the populace's health, or has that trust been betrayed in this complex and frightening time?

In a special appearance at the University of New Hampshire, Laurie Garrett talks about pandemic security.

Please join us

Friday, April 21, 7 p.m.

The Johnson Theatre (Paul Creative Arts Center)

University of New Hampshire

Garrett is an authority on newly emerging and re-emerging diseases, public health, and their effects on foreign policy and national security. She is a senior fellow for global health at the esteemed Council on Foreign Relations and the best-selling author of *The Coming Plague: Newly Emerging Diseases in a World Out of Balance* and *Betrayal of Trust: The Collapse of Global Public Health*. She is the only writer ever to have been awarded all three of the Big “Ps” of journalism: The Peabody, the Polk (twice), and the Pulitzer.

There is no charge to attend this event. Seating is limited. To reserve seats, RSVP at (603) 862-0598 (automated) or online at www.unh.edu/urc.

Doors open at 6:15 p.m. Parking is available in B-Lot.



Accessibility accommodation requests may be directed to Lynne Cooper (603) 862-1997. For TTY calls only, call 1-800-relay-nh.

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of **NEW HAMPSHIRE**