

A welcome to participants and attendees



J. BONNIE NEWMAN



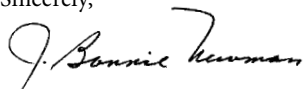
JOHN D. ABER

WELCOME to our weeklong celebration of undergraduate research at the University of New Hampshire. Now in its eighth year, the UNH Undergraduate Research Conference (URC) showcases the remarkable work of our students and their faculty mentors. We take pride in their efforts.

Undergraduate research and discovery are hallmarks of a University of New Hampshire education. Extraordinary learning opportunities vary from field studies and empirical research to outreach scholarship and creative works. Our students have the valuable opportunity to partner with faculty and discover the intricacies of their disciplines firsthand, thereby enriching the academic experience and gaining essential skills for 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.

This conference provides University of New Hampshire undergraduates with a professional venue to present their important research findings. We encourage you to read their posters, listen to their presentations, and ask questions of the student researchers. You will be impressed with their answers and the depth and breadth of their knowledge and understanding.

Sincerely,

A handwritten signature in cursive script that reads "J. Bonnie Newman".

J. BONNIE NEWMAN, INTERIM PRESIDENT

A handwritten signature in cursive script that reads "John D. Aber".

JOHN D. ABER, VICE PRESIDENT FOR RESEARCH

Measuring the value of the Undergraduate Research Conference

LAST YEAR, THE UNH UNDERGRADUATE RESEARCH CONFERENCE (URC) evaluation committee asked URC participants to complete a survey in order to gain more insight into the URC student experience.

Responses indicated student participation in undergraduate research was a highlight of their undergraduate experience at UNH and had a significant and positive effect on their post-graduate experience.

URC participation increased student confidence and presentation skills, and in many cases influenced their graduate school and/or career choices. Participants also reported a sense of pride in being able to plan, implement, and report their research to peers, faculty and family members. For many, it was one of the more memorable experiences of their undergraduate career. One student stated: “Sharing my research at the URC and talking with those who attended allowed me to expand certain ideas of my project, giving it greater depth and helping to determine its importance in the bigger picture.”

The students overwhelmingly attributed the success of their research and the resulting URC presentation to collaboration with a faculty mentor. One student wrote: “My faculty mentor has been the most influential person in my undergraduate career. He has provided me with more experience, knowledge, and opportunity than any class could offer. I am completely indebted to him for his support and confidence in me.”

The students also reported that faculty mentors play an important role in providing connections and opportunities for students to enter graduate programs or the job market.

The survey showed that the Undergraduate Research Conference brings the research experience full circle by providing a professional venue for students to present their work and engage in thoughtful discussions with other members of the University community.

Excerpted from the manuscript under review titled Intellectual Growth for Undergraduate Students and Faculty: Evaluation Results from an Undergraduate Research Conference, authored by Sharyn Potter, Eleanor Abrams, and Lisa Townson.

“My faculty mentor has been the most influential person in my undergraduate career. He has provided me with more experience, knowledge, and opportunity than any class could offer. I am completely indebted to him for his support and confidence.”



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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 '07 Calendar

All events are free and open to the public

Thursday, April 19

10 AM–4 PM

Graduate School Research Conference
MUB, Strafford Room ③

Friday, April 20

6–8 PM

2007 Senior B.A. and B.F.A. Exhibition and Preview Reception ①

The Art Gallery, Paul Creative Arts Center

Monday, April 23

8 AM–5 PM

UNH Manchester URC—Engineering Technology Senior Project Presentations
UNHM Auditorium

Tuesday, April 24

11 AM–1 PM

UNH Manchester URC—Oral Presentations
UNHM Auditorium

12:40–2 PM

History Department Undergraduate Presentations
Horton Social Sciences Center ②

Wednesday, April 25

10:30 AM–noon

Seacoast Reads Exhibition
MUB, Rooms 330, 332, 334 ③

10:30 AM–noon

Thompson School Community Leadership Program
MUB, Rooms 330, 332, 334 ③

10:30 AM–noon

UNH Office of Community Service Partnerships
MUB, Rooms 330, 332, 334 ③

11 AM–2 PM

Thompson School Student Showcase
Stacey's at Cole Hall ④

2–5 PM

Interdisciplinary Science and Engineering Symposium (ISE)
Morse Hall Atrium ⑤

4–6 PM

UNH Manchester URC—Poster Presentations
UNHM Auditorium

8 PM

The URC, in partnership with the MUB Current Issues Lecture Series, presents an evening with John McQuaid

Pulitzer Prize winner and author of *Path of Destruction: The Devastation of New Orleans and the Coming Age of Superstorms*, John McQuaid delivers the keynote address, "Are we ready for the environmental threats of the 21st century?"

Memorial Union Building, Granite State Room ③

Thursday, April 26

11 AM–1 PM

UNH Manchester URC—Film Presentations
UNHM Auditorium

3:30–6:30 PM

The Naked Arts—Creativity Exposed
Hennessy Theatre,
Paul Creative Arts Center ①

Friday, April 27

9 AM

Breakfast with UNH Interim President J. Bonnie Newman and Vice President for Research John Aber
MUB, Granite State Room ③

9:30 AM–2:30 PM

Vice President's University-wide Symposium
MUB, Granite State Room, various rooms ③

12:30–3:30 PM

School of Health and Human Services Grimes Award Competition
Petee Hall ⑦

1–5 PM

Honors English Undergraduate Research Conference
Hamilton Smith Hall,
English Dept. Room 129 ⑥

1–4 PM

Psychology Department George M. Haslerud Undergraduate Research Conference
Conant Hall ⑧

4–8:30 PM

Philosophy Undergraduate Research Conference
MUB, Rooms 330, 332 ③

Saturday, April 28

7:45 AM–2 PM

16th Annual COLSA Undergraduate Research Conference
The New England Center ⑨

8 PM

Student Composers' Concert
Bratton Recital Hall,
Paul Creative Arts Center ①

ADDITIONAL EVENTS

Wednesday, May 2

8 AM–2:30 PM

Mary Louise Fernald Nursing Research Symposium
MUB, Strafford Room ③

Friday, May 4

2:30–4 PM

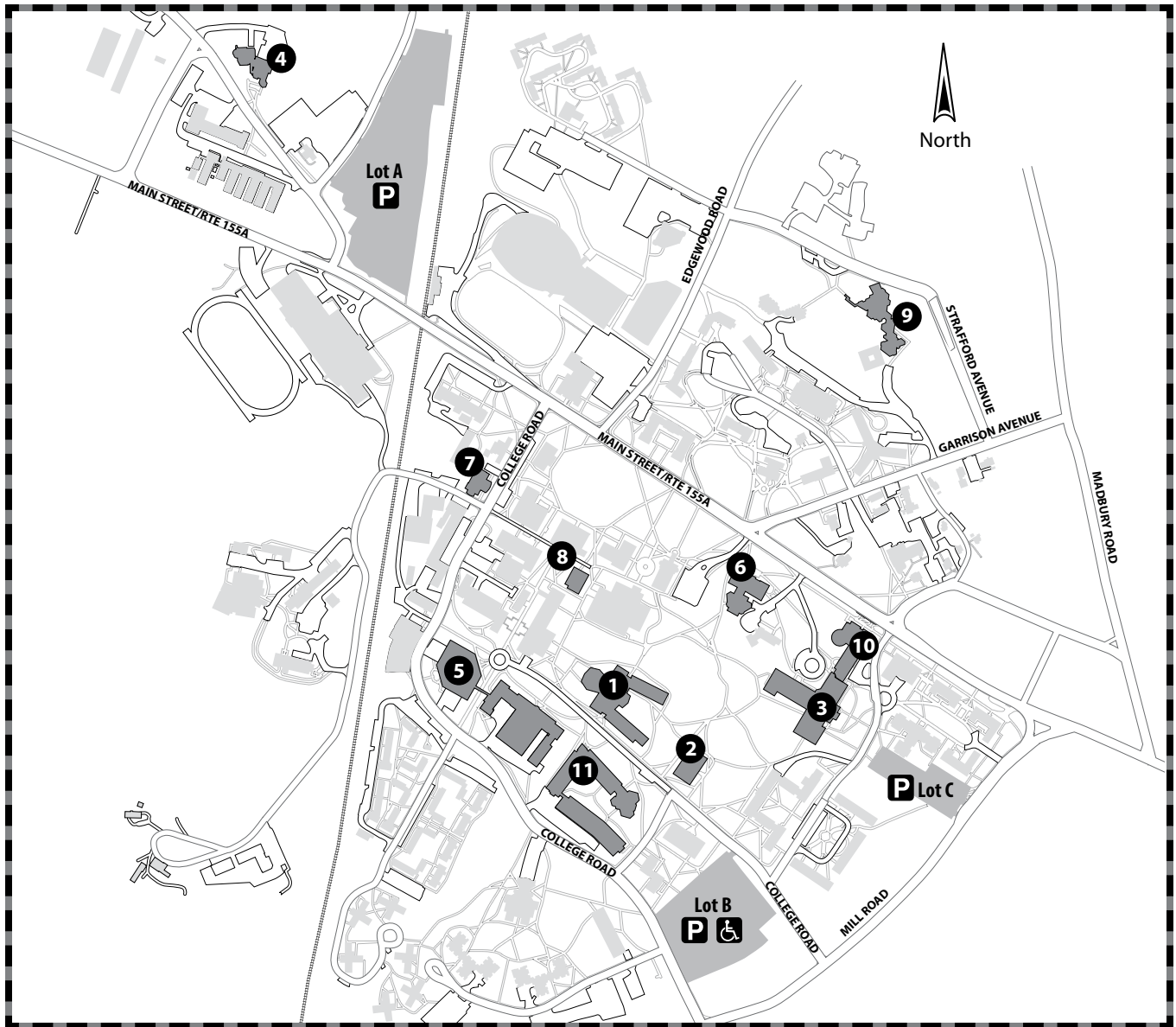
Chemistry Department Poster Exhibition
Parsons Hall, Iddles Wing ⑪

Wednesday, May 9

8 AM–2 PM

Whittemore School of Business and Economics Paul J. Holloway Business Plan Competition
Holloway Commons ⑩

Campus Map



BUILDING KEY

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

UNH Manchester
400 Commercial Street
Manchester, N.H.

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

Events and Presentations

Graduate Research Conference

THURSDAY, APRIL 19
10 AM–4 PM

Memorial Union Building (MUB),
Strafford Room

UNH graduate students present the findings of their scholarly investigations.

Information on participants will be available at this event.

Preview Reception 2007 Senior Bachelor of Arts and Bachelor of Fine Arts Exhibition

FRIDAY, APRIL 20
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:

Colleen Murphy, Mixed Media
Matthew Perdoni, Painting
Alexandra Ross-Raymond, Painting
Lauren B. Rowe, Ceramics
Matthew Soltesz, Photography
Ryan Tirrell, Photography
Jocelyn Toffic, Drawing

B.F.A. degree candidates:

Jason P. Bombaci, Painting
Maggie Cedarstrom, Painting & Drawing
Christopher Hobbs, Painting & Drawing
Ryan Murphy, Painting
Nathaniel Raymond, Printmaking & Drawing

This exhibit runs from April 21 through May 19 (closed May 3–7).

UNH Manchester URC—Engineering Technology Senior Project Presentations

MONDAY, APRIL 23
8 AM–5 PM

UNHM Auditorium

The Engineering Technology Program presents the 30th annual Senior Project Presentation day. This event is the culmination of an academic year effort where full-time seniors formally present their projects to peers, faculty members, representatives and technical advisers of sponsoring companies, and special guests.

Anthony Amato
Major: Engineering Technology
Velcro Web Controlled Tension Unwinder
Adviser: Ralph Draper

Kristian Browne
John Kinyanjui
Major: Engineering Technology
Cable and IPTV Video Test Lab Automation
Adviser: Ralph Draper

Cindy Burrows

Major: Engineering Technology
Concept Development of a Portable Test Cart for Automated Testing of Industrial Chillers Featuring National Instruments' Modules with LabView Software
Adviser: Ralph Draper

Mike Cristiano

Major: Engineering Technology
Bead Flatteners—reengineering and Design
Adviser: Ralph Draper

Tyler Ducet

Trevor Mann

Major: Engineering Technology
Pruverani Reader Board
Adviser: Ralph Draper

Philip Dyer

Major: Engineering Technology
VoiceAnnounce® Caller ID for Mobile
Adviser: Ralph Draper

Stephen Estevanovich

Jeremy Richardson

Major: Engineering Technology
NIST Synchronized Clock
Adviser: Ralph Draper

Christopher McCutcheon

Major: Engineering Technology
Technical Operations Data Collection
Adviser: Ralph Draper

Nathan Ndajeh

William Pepler

Major: Engineering Technology
Multiple Channel Temperature Measuring Interface
Adviser: Ralph Draper

Stany Nepa

Major: Engineering Technology
Replacement Vibra Continuity Tester
Adviser: Ralph Draper

Philip Percoski

Major: Engineering Technology
Automated Insulation Resistance Testing
Adviser: Ralph Draper

Javier Philbrick

Major: Engineering Technology
Returnable Reel CLAMP
Adviser: Ralph Draper

Christopher Price

Major: Engineering Technology
Performance Enhancing Circuit for Pneumatic Valves
Adviser: Ralph Draper

Ken Thompson

Major: Engineering Technology
Hindsight VNIC Integration
Adviser: Ralph Draper

James Woody

Major: Engineering Technology
Hindsight-alarm
Adviser: Ralph Draper

UNH Manchester— Oral Presentations

TUESDAY, APRIL 24
11 AM–1 PM

UNHM Auditorium

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

Rayne Coleman

Major: Sign Language Interpretation
"Could You Pass the Salt?" Comparing Politeness Strategies of American Sign Language Users and English Speakers
Adviser: Jack Hoza

James Galipeault

Majors: Psychology and Communication Arts
Illness Management and Recovery: An Evidence-based Mental Health Program
Adviser: Gary Goldstein

Devon Mercer

Major: History
Obedience Only to God: The Trial of Susan B. Anthony
Adviser: Jack Resch

Matthew Paterson

Major: English
Interning Outdoors
Adviser: Fred Metting

Tali Rojem

Major: Communication Arts
Communication, Power, and the Tutor/Tutee Relationship
Adviser: Patrice Mettauer

Sean Tandy

Major: History
The Hutchinson Family Singers and American Protest Song
Adviser: Robert Macieski

History Undergraduate Research Conference

TUESDAY, APRIL 24
12:40–2 PM

**Horton Social Sciences Center,
Room 204**

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

Emily Fekete

Major: History
Geographic Literacy Among Students at the University of New Hampshire: Fall 2006

Advisers: J. William Harris and Alasdair Drysdale

Tara Goulet

Major: History
"Power to the People!" Socialist Visions in The Black Panther Party and The U.S. Prison Movement

Advisers: J. William Harris and Lucy Salyer

Dan Jasinski

Major: History
The Severing of the Relationship Between the Catholic Church and the French State
Adviser: Lucy Salyer

Elizabeth McFadden

Major: History
Living on the Edge: The Staffordshire Moorlands Pan and Life Along Hadrian's Wall
Adviser: Gregory McMahon

David Palange

Major: History
Your Loving Sons: American Warfare Through the Eyes of New England Soldiers
Adviser: J. William Harris

Office of Community Service Partnerships

WEDNESDAY, APRIL 25
10:30 AM–NOON

**Memorial Union Building,
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 community dinners.

Magdalene Balz

Major: Communication Sciences and Disorders
Alternative Spring Break-Project Eden
Adviser: Julie Tracy

Lena Collins (English)

Cormac Griffin (Environmental Conservation Studies)
Elizabeth Joseph (English)
UNH Community Dinners
Adviser: Reverend Larry Brickner-Wood

Kristin Cowalski (Occupational Therapy)

Richard Palazzoli (English)
Carly Prisby (Nursing)
Alternative Spring Break-Nazareth Farm
Adviser: Julie Tracy

Lauren Deitch (Chemical Engineering)
Matthew Jasie (Business)
Christine Leonard (Occupational Therapy)
Kendra Nourie (Wildlife Management)
Alexandra Varga (International Affairs and Environmental Conservation Studies)
Alternative Break Challenge
 Adviser: Marianne Fortescue

Michaela Landry (Family Studies)
Alyssa Stack (Nursing)
Circle K
 Adviser: Marianne Fortescue

Caleb Morrill-Winter (Mechanical Engineering)
Juliet Tarantino (International Affairs and Anthropology)
Nicaragua Community Action Trip
 Adviser: Marianne Fortescue

Alicia Rossman (Nutritional Studies)
Lauren Howard (Social Work)
Cornucopia Campus Food Pantry
 Adviser: Reverend Larry Brickner-Wood

Seacoast Reads Exhibition

WEDNESDAY, APRIL 25
 10:30 AM–NOON

**Memorial Union Building,
 Rooms 330, 332, 334**

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

UNH students serving Children in New Hampshire Schools

Advisers: Grant Cioffi, John Carney, and VISTA coordinator Kristin Haskell

Thompson School Community Leadership Program

WEDNESDAY, APRIL 25
 10:30 AM–NOON

MUB, Rooms 330, 332, 334

The Community 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.

Portfolio Presentations

Jeremy Bourgeois
Jessica Carter
Bryan Dwyer
Nicole Finitsis
Oliver Fisher
Christopher Forbes
Melissa Morris
Brian Reed
Alicia Swain
 Major: Community Leadership
 Adviser: Kate Hanson

Thompson School Undergraduate Student Showcase

WEDNESDAY, APRIL 25
 11 AM–2 PM

"Stacey's" at Cole Hall

Thompson School of Applied Science students translate academic instruction into practical presentations at this year's URC. Join selected students who will showcase their expertise in such diverse areas as food services management and forest and horticultural technology.

April Allen (Horticultural Technology)
Ellen Karelitz (Non degree)
Kyle Mike (Horticultural Technology)

Katrina Nunes (Biochemistry)
Gail Spaen (Non degree)
Karrissaann Taylor (Horticultural Technology)
Leah Volckmann (Horticultural Technology)
Horticultural Technology Student Floral Designs: Tropical Designs
 Advisers: John Hart, Rene Gingras, and Dana Sansom

Katie Roy
 Major: Food Services Management
Our Heritage
 Adviser: Eugene Alibrio

Michael Simmons
 Major: Forest Technology
Determining the Feasibility of a UNH Sugarhouse
 Adviser: Matthew Chagnon

Interdisciplinary Science & Engineering Symposium

WEDNESDAY, APRIL 25
 2–5 PM

Morse Hall Atrium

The ISE symposium showcases scientific presentations from undergraduate students in all colleges and departments. The event features undergraduate research that contributes to or benefits from an interdisciplinary science and engineering perspective. Students have an opportunity to interact with peers and gain professional experience presenting research. The program includes a poster session, remarks from university leaders, refreshments, and an awards ceremony.

For the second consecutive year, guest presenters from Elizabeth City State University (ECSU) in Elizabeth City, North Carolina enrich the ISE event. We are pleased to welcome

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PETER MASUCCI

Adjunct Professor

Mission: Marketing

HOW DOES AN AEROSPACE EXPERT find himself teaching college level marketing?

For Peter Masucci, adjunct professor at UNH's Whittemore School of Business and Economics (WSBE), it was a unique trajectory.

A Massachusetts native and only child of first-generation Italian Americans, Masucci attended Boston Public Schools, then received a bachelor of science degree in aerospace engineering from Boston University. He went to work for NASA as a project engineer, and when NASA's Cambridge office closed due to budget cuts, headed to Downey, Cal. to work for North American Aviation (which later became Rockwell International), the NASA contractor that designed and built the Apollo spacecraft.

There, he worked on "crew systems" for several Apollo and Skylab missions—designing and building changes to the spacecraft based on feedback from the astronauts. Alan Sheppard, for example, would need to find and use various command module items during flight. He and his crew would communicate to engineers back on Earth how easily or uneasily they could retrieve and stow the items. Masucci and other engineers took notes and then built changes to the spacecraft to accommodate the crew's needs for future missions.

As the Apollo program waned, Masucci and his wife decided to move back east and he began exploring the non-engineering side of his aerospace experience. He landed a position in Digital Equipment Corporation's (DEC) product marketing organization.

"In some ways what I did at Rockwell was similar to product marketing," Masucci explains. "I was the person positioned between the company and the customer." This, he describes, sketching the image of an hourglass on its side, "is the essence of marketing." The company represents one end of the hourglass, the customer the other. "Marketing is what happens in the middle."

After 13 years in various senior marketing and management positions at the multi-billion dollar company, he sought new challenges with several small, pre-IPO start-ups during the high-tech sector's heydays in the 1990s.

From corporation to classroom

It was about the time he and his wife began contemplating a permanent move to Maine that Masucci envisioned teaching as his next career. With 30 years of real-world marketing experience, in the classrooms of UNH's McConnell Hall he teaches undergraduate- and graduate-level courses such as Principles of Marketing, Advertising and Integrated Marketing Communications, Marketing Management, and various other courses.



Masucci is the current guiding light behind WSBE's signature experiential course—Marketing Workshop. Seniors taking this class have worked on marketing campaigns for real clients ranging from corporate giants such as Citibank, Starbucks, and Bausch and Lomb, to local small businesses, nonprofits, and campus organizations.

"Marketing Workshop was a great real-world application of what we've spent the last four years learning," says one former participant.

Masucci is turning heads. But not just from marketing industry leaders whose initiatives benefit from the involvement of his students. In 2006, he received the WSBE Adjunct Faculty Excellence in Teaching award.

"I love my work," he says. "I am very, very lucky to work alongside these smart, energetic young people."

His students feel lucky, too. And they tell him so. Comments on Masucci's faculty evaluations read like this: "Peter is awesome!" "He more than lives up to his great reputation among students." "This was the best marketing course I've ever taken!" "He gets us excited about learning."

At this week's Undergraduate Research Conference, no fewer than 99 of Masucci's students will present their work on the various marketing workshop campaigns of the 2006–2007 academic year. Check them out at the Vice President's University-wide Symposium on Friday, April 27 at the MUB.

these undergraduates and their faculty mentors who collaborate with UNH researchers in a productive research and educational partnership.

Eman Akam (McNair Scholar)
Major: Chemistry
Encapsulation of Fullerene [C60] in SWCNT Using Microwave Irradiation Chemistry
Adviser: Glen Miller

Michael P. Allard
Major: Mechanical Engineering
Improving Spatial Ability
Adviser: Brad Kinsey

Michael P. Allard
Major: Mechanical Engineering
Students Without Borders—Helping Niger
Advisers: Jenna Jambeck and Kevin Gardner

Stephanie Allard
Major: Biology
*Determination of Presence of Prostaglandins After Introduction of *Daucus carota* in *Danio Rerio**
Adviser: Charlie Cox

Melissa Allen
Major: Psychology
Calcium Oxalate as an Indicator of Stress at Two Sites on Mount Moosilauke
Adviser: Barry Rock

Robert Ano (Electrical Engineering)
Steve Geiger (Mechanical Engineering)
Matthew Low (Mechanical Engineering)
Robert Lumpkins (Mechanical Engineering)
Erick Michaud (Mechanical Engineering)
David Woodworth (Mechanical Engineering)
UNHubless Engineering
Adviser: Todd Gross

Justin Baker
Major: Mathematics
Passive Imaging Using Naturally Occurring Gamma-ray Radiation
Adviser: Mark McConnell

Dan Balbo
Jeff Gagnon
James Medaglia
Rich Rosencrans
Jeremy Sherman

John Welch
Major: Civil Engineering
UNH Dam Project
Adviser: Kevin Gardner

Daniel Banakos (Mechanical Engineering)
Aydin Berhumoglu (Electrical Engineering)
Jeffrey Nichols (Computer Engineering)
Jeffrey Ojala (Computer Engineering)
Daniel Reynolds (Electrical Engineering)
UNH Fire Fighting Robot
Adviser: Barry Fussell

Chris Bancroft (Electrical Engineering)
Matt Jamrog (Computer Engineering)
Lucas Liimatainen (Electrical Engineering)
Chris Sabato (Computer Engineering)
Robert Sandler (Electrical Engineering)
Katie Schwarzenberg (Undeclared)
Mu Chair
Adviser: John LaCourse

James Baril
Joseph Sager
Major: Electrical Engineering
Backplane Ethernet Transceiver
Adviser: Michael Carter

Aaron Beckner
Tim Buzinski
Dan Cedrone
Eric Hansen
Austin Kennedy
Rody Lageson
Travis Parker
Geoff Sanford
Luke Silk
Jesse Sipple
Major: Civil Engineering
Proposed Expansions and Improvements to Pease International Airport
Adviser: Kevin Gardner

Jean Beland (Electrical Engineering)
Michael Farrar (Computer Engineering)
Smart Spotter
Adviser: Allen Drake

Brandon Bell
Marcus Proctor
Major: Mechanical Engineering
UNH Precision Racing—Formula-SAE
Advisers: May-Win Thein and Gerald Sedor

Christopher Black (Physics and English)
Hyomin Kim (Graduate Student in Systems Design Engineering and Mechanical Engineering)
Marc Lessard (Faculty)
Paul Riley (Research Project Engineer)
Building and Installing Ground-Based Sensors to Study Pi1B Pulsations in the Region of a Polar Cusp
Adviser: Marc Lessard

Ashley Bolbrock
Major: Earth Sciences
Sources and Mechanisms for Carbon Delivery to the Deep Sea: Biological Station M, Monterey Fan, California
Adviser: Joel Johnson

Amanda Brown
Major: Physics
Effects of Composition on Microstructure in Gold-Silica Composite Thin Films
Adviser: James Harper

Amanda Brown
Don Carlson
Dana Filoti
Major: Physics
Dependence of Crystal Orientation on Composition in Silver-Silicon Composite Thin Films
Adviser: James Harper

Gregory Brown (special guest from Elizabeth City State University)
Major: Computer Science
Correlations Between the Concentrations of Chlorophyll a in Surface Waters and Dissolved Oxygen in Bottom Waters of the Northern Gulf of Mexico
Advisers: Linda Hayden and Jinchun Yuan (ECSU)

Adam Bungert
Major: Physics
Case Based Chemistry/Physics Problems for a Comprehensive Chemistry, Physics, and Biology Curriculum
Adviser: Charlie Cox

Bryce Carmichael (special guest from Elizabeth City State University)
Major: Computer Science
Robotic Simulation
Adviser: Linda Hayden (ECSU)

Jon Carrier

Tyler Clark

Tomas Elder

Major: Electrical Engineering

G.hs Message Transmitter

Adviser: Michael Carter

Jason Carroll (Physics)

Engy Henen (Electrical Engineering)

Audio Amplifier

Adviser: John LaCourse

Jason Carroll

Major: Physics

Practical Consequences of Penetrating Radiation for Space Flight Instrumentation

Advisers: Antoinette Galvin and Mark McConnell

Anne Carson

Majors: English and Psychology

The Effect of Tar Spot on Norway and Sugar Maples

Adviser: Barry Rock

George Clark (Physics)

Morgan O'Neill (Physics and Political Science)

Star Sensor Flight Calibration and Data Analysis for the Interstellar Boundary Explorer (IBEX)

Adviser: Eberhard Moebius

Benjamin Clarke

Ilya Karnauk

Colin Sad

Adam Sayer

Major: Electrical Engineering

Class-D Electrostatic Speaker Amplifier

Adviser: Allen Drake

Andrew Clements (Environmental Engineering)

Lisa Damiano (Environmental Engineering)

Tiffany D'Amour (Business Administration)

Kathy Dietz (Business Administration)

Shawn Dupont (Business Administration)

Christopher Getman (Business Administration)

Steve Granese (Civil Engineering)

Michael Olson (Environmental Engineering)

Jessica Tokson (Environmental Engineering)

Bret Tolivaia (Environmental Engineering)

Ed Viel (Environmental Engineering)

Amalia Wasiski-Kuhn (Environmental Engineering)

2006-07 UNH WERC Project—Microbial Fuel Cells

Adviser: Jenna Jambeck

David Connaughton

Major: Chemical Engineering

In Situ Transesterification of Microalgal Oil

Adviser: Ihab Farag

Dana Coolbroth

Stephen Evans

Eric Grenier

Chad O'Conner

Corey St. Sauvuer

Brad Sullivan

Sara Tasker

Chris Williams

Stephen Zaskey

Major: Civil Engineering

Cowell Stadium Improvements

Adviser: Kevin Gardner

Sam Corliss

Andrew Elliott

Major: Electrical Engineering

Embedded Computer Controlled Hydroponics Greenhouse

Adviser: Frank Hludik

Tim Corrigan

James Hughes

Timothy Northrup

Ryan O'Mahony

Jill Sanctuary

Major: Civil Engineering

Pedestrian Traffic at the Page School in West Newbury, N.H.

Adviser: Kevin Gardner

Benjamin Cota

Christopher Robert

Derek Russell

James Sherrard

Brian Smith

Major: Civil Engineering

Portsmouth Hotel and Conference Center

Adviser: Kevin Gardner

Kristopher Cui

Major: Chemical Engineering

ASTM Biodiesel Gas Chromatograph Testing and Automation of

Biodiesel Processor

Adviser: Ihab Farag

Brian Darnold

Nicole Guyette

Ryan Haley

Anthony Loubier

Jonathon Morency

Christie Urban

Major: Civil Engineering

Jackson's Landing Park Upgrade Design

Adviser: Kevin Gardner

Andrew Dawley (Mechanical Engineering)

Zachary Morriss (Mechanical Engineering)

Peter Palen (Mechanical Engineering)

Buba SanYang (Electrical Engineering)

Tim Schuyler (Mechanical Engineering)

Ducted Wind Turbine

Adviser: Joseph Klewicki

Katelyn Dolan

Major: Environmental Conservation Studies

Pan-Arctic Temperatization: A Preliminary Study of Future Climate Impacts on Agriculture Opportunities in the

Pan-Arctic Drainage System

Advisers: Charles Vorosmarty and Richard Lammers

Walter Durack

Joseph Sperry

Major: Civil Engineering

Beneficial Use of Recycled Materials in a Concrete Mixture

Adviser: David Gress

Angela Kuehn (Microbiology)

Stephen Perros (Biochemistry and Molecular Biology)

Katie Szymanska (Microbiology)

The Role of Evolutionary History in Adaptation to New Environments:

Experimental Evolution of the Burkholderia cenocepacia Complex

Advisers: Vaughn Cooper and

Crystal Ellis (graduate student)

Alethea Evangelou (Mechanical Engineering)

Justin Farrell (Mechanical Engineering)

Adam Filion (Mechanical Engineering)

Philip Gagnon (Mechanical Engineering)

Kristen Kelso (Mechanical Engineering)

Joseph Marston (Mechanical Engineering)

Kyle McLaughlin (Mechanical Engineering)

Michael Ramsey (Computer Engineering)

Michael Roux (Mechanical Engineering)

Matthew Royce (Computer Engineering)

Michael Siopis (Mechanical Engineering)

Robert Wright (Mechanical Engineering)
Hovercraft

Adviser: May-Win Thein

Justin Farrell

Wayne St. Pierre

Major: Mechanical Engineering

High Strain Rate Microforming

Adviser: Brad Kinsey

TreAsia Fields (special guest from Elizabeth City State University)

Major: Mathematics

Creation of a Google Map of Local

Remote Globe Sites Using Data

Visualization

Adviser: Linda Hayden (ECSU)

Kaiem Frank

Lee Smalls (special guests from Elizabeth City State University)

Major: Computer Science

Estimating Antarctic Firn Average

Emissivity Trends at the Ski Hi

Automatic Weather Station

Adviser: Linda Hayden (ECSU)

Janine Frascchetti

Major: Earth Sciences

The Timing and Chemical Characteriza-

tion of a Possible Toba Ash Occurrence in

the Bay of Bengal, Offshore India

Adviser: Joel Johnson

Owen Friend-Gray

Major: Environmental Engineering

Activation of Black Phosphate Rock for

Heavy Metal Adsorption

Adviser: Jeffrey Melton

Michelle Garnsey

Major: Chemistry

Hydrogenation of Single Walled Nano

Tubes

Adviser: Glen Miller

Stephanie Grainger

Major: Chemical Engineering

Study of Pilot Plant Acetone Use

Reduction

Adviser: Ihab Farag

Michael Howley

Major: Geology

Laurentide Ice Sheet Recession Recorded

in a Late-Wisconsin Proglacial Lake in

the Contoocook River Basin, Southern

New Hampshire

Adviser: Joseph Licciardi

Joseph Iuliucci

Major: Chemical Engineering

Tin-Silver Metal Particle

Electrocodeposition for Lead-free

Electronics Packaging

Adviser: Dale Barkey

Joe Kiley

Jonathan Zink

Major: Computer Engineering

Carpal Tunnel Syndrome Early Warning

System

Adviser: John LaCourse

Heather Larivee

Major: Environmental Sciences

Adsorption of Phosphorus by Apatite

Phosphate Rock—A Potential Solution to

Freshwater Eutrophication

Adviser: Kevin Gardner

Jereme Leafe

Christian Torres

Major: Mechanical Engineering

Dirty Leafe Designs

Adviser: Igor Tsukrov

Gary Lemay

Chris Robert

Major: Civil Engineering

UNH ASCE Concrete Canoe

Adviser: Jo Daniel

Benjamin MacBride

Major: Physics

Turbulence of the Solar Wind

Adviser: Charles Smith

Kyle McLaughlin

Major: Mechanical Engineering

Detector Housing for Angular Detecting

Inclined Sensor

Adviser: James Connell

Samuel Meehan

Major: Physics

Testing String Theory from the

Perspective of Cosmology

Adviser: Per Berglund

Matthew Minuti (Electrical Engineering)

Christopher Rappa (Computer

Engineering)

Flexible Communications

Adviser: John LaCourse

Jerome Mitchell (special guest from Elizabeth City State University)

Major: Computer Science

Using Active and Passive Microwave

Records for Detecting Firn

Characteristics in Greenland: A New

Indication of Melt

Adviser: Linda Hayden (ECSU)

Carlee Moser

Majors: Mathematics

Vector-borne Disease Mapping: EEE in

New Hampshire

Adviser: Ernst Linder

Brian Patenaude (Physics and Mathematics)

Seth Quarrier (Physics)

Flexible Digitally Controlled SPM

Electronics

Adviser: Karsten Pohl

Paul Pepler

Major: Environmental Sciences

Denitrification at Burley-Demeritt Farm, Lee, N.H.

Adviser: Matt Davis

Emmanuel Pitia

Majors: Chemical Engineering and

Business Administration

Biodiesel Fuel from Jatropa

Adviser: Ihab Farag

Emmanuel Pitia

Majors: Chemical Engineering and

Business Administration

Latex Particles Size versus Morphology

Adviser: Donald Sundberg

Jasmin Rivers

Illiana Thomas

Tiwana Walton

(special guests from Elizabeth City State University)

Major: Computer Science

Developing Standards and Practices for Digitizing and Archiving Multimedia Material from within the Undergraduate Research Experience Program and Other Associated Programs

Advisers: Linda Hayden and Jeff Wood (ECSU)

Brittany Sanctuary

Major: Geography

Interannual Variability in the Timing and Amount of Allergenic Pollen in New England Over the Last Decade

Advisers: David Brown and Cameron Wake

Andrew Spivack

Majors: History and Geography

Trends in Heavy Precipitation Events Across Northern New England

Adviser: David Brown

Alison Spruce

Major: Geology

Paleomagnetic Analysis of the Chickaloon Formation Ashes: Implications for Dating the Paleocene-Eocene Boundary

Adviser: Will Clyde

Valerie Stucker

Major: Chemistry

Isotopic Labeling Traces Fungal Metabolism in Phospholipid Fatty Acids

Adviser: Erik Hobbie

Jeff Tessein

Major: Physics

Interplanetary Turbulence Parameters at 1 AU

Adviser: Charles Smith

Vassili Vorotnikov

Major: Chemical Engineering

Automated Detection and Analysis of Interplanetary Shocks

Adviser: Charles Smith

JULIE WIGGIN '07

Health Management and Policy

School of Health and Human Services

Faculty Mentor: Assistant Professor Robert McGrath

Women and body image

AS A FEMALE, I have been exposed to the effects that body image have on myself and other women. I am fascinated by the idea that some women are extremely comfortable with their appearance, while others struggle daily with their self-image.

I believe there are certain factors associated with body image that most people are aware of such as the media, familial relationships, and peer relationships. Apart from these and other factors that may influence whether women develop a negative or positive body image, I am interested to see if certain personality characteristics may contribute to how women feel about themselves.

How is it that some women surrounded by these factors maintain a positive body image, while the same factors negatively affect others? These questions led me to ask whether a person's level of hardiness or resilience actually has a mitigating effect against developing a negative body image. By hardiness I mean a combination of characteristics, such as personality and social support, from which they draw when faced with adversity.

I have hypothesized that there will be a positive relationship between hardiness and positive body image. I am extremely interested to see what the results of my questionnaire will be.

Talk to Julie about her results at the Vice President's Symposium on April 27, 10:50 a.m.–noon at the MUB's Granite State Room.



SHAWN ALLAIRE '07

Communication Arts

UNH Manchester

Faculty Mentor: Assistant Professor Skip Tenczar

Reel time

FOR THIS YEAR'S URC FILM SCREENING, Bryan Connington and I will show three short films, *Breakdown*, *Quiet Time*, and *Jump to Conclusions*.

We made *Breakdown* last semester and it has probably been our most challenging film produced yet. It took the work of Bryan (camera), Steve Whalen (director), and me (producer). The script called for nighttime scenes and we were forced to maneuver around many technical issues such as lighting with power converters, compliance from the town hall, and noise factors. Fortunately, everything went as planned we were able to get through the project fairly well.

The other two films we will show, *Quiet Time* and *Jump to Conclusions*, are the shorter of the three films. *Quiet Time* gave us an opportunity to try out various camera angles which we had not used before. We also worked a lot with sound editing for this film using the new Final Cut program in our video lab.

We made *Jump to Conclusions* during one class period! Three people worked on this project including Bryan, Steve Bowles, and me. This has been our darkest piece yet in terms of drama and humor. We hope people will appreciate it for what it is.



Arturs Vrublevskis

Major: Mathematics and Physics

On the Nature of "Crater" Flux Transfer Events

Adviser: Charles Farrugia

Unquiea Wade (special guest from Elizabeth City State University)

Major: Computer Science

Airborne Measurement of Snow Thickness Over Sea Ice

Advisers: Linda Hayden (ECSU) and Prasad Gogineni (University of Kansas)

UNH Manchester URC—Poster Presentations

WEDNESDAY, APRIL 25

4–6 PM

UNHM Auditorium

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.

Robin Banker

Major: Psychology

Anxiety Disorders in the Elderly

Adviser: Alison Paglia

Heidi Broadley

Francoise Morison

Major: Biology

ECHO BLAST, a Bioinformatic

Exploration of Echolocation Evolution

Adviser: Sarah Kenick

Susan Cady (Biochemistry and Molecular Biology)

Robert Goings

A Closer Look into the Evolution of CRX/OTX5 genes in Mammals

Adviser: Sarah Kenick

Kirsten Hildonen

Major: History

The Spies Who Saw Through Me

Adviser: Robert Macieski

Troy Maynard

Major: Communication Arts
WMUR Internship—Entering the Production Field
 Adviser: Skip Tenczar

Michelle Mitchell

Major: History
“AME,” A Referential Database of the City of Manchester, New Hampshire 1818–1850
 Adviser: Robert Macieski

Kristen Montour

Major: Psychology
Women’s Experiences of Sexual Harassment in Self-Help Groups and Substance Abuse Treatment
 Adviser: Alison Paglia

Francoise Morison

Major: Biology
Sponge Squeeze: How Sanitary Can a Stinky Sponge Be? An Analysis of the Antimicrobial Activity of a Gulf of Maine Specimen of the Halichondria sp. Marine Sponge
 Adviser: Sarah Kenick

Cold War

Aidan Ankarberg

Major: History
 Adviser: Robert Macieski

Frank Deschenes

Major: History
 Adviser: Robert Macieski

Marina Ilyuk

Major: History
 Adviser: Robert Macieski

Kathleen Joyce-Page

Major: History
 Adviser: Robert Macieski

Jacqueline Quintal

Major: History
Entertaining the Cold War
 Adviser: Robert Macieski

Amanda Sinotte

Major: History
 Adviser: Robert Macieski

Jeffrey Sojka

Major: History
 Adviser: Robert Macieski

Religion and Civic Life in America

Aaron Boucher

Major: Humanities
Secular Humanism, Faith, and Science: The Debate Over Intelligent Design
 Adviser: John Resch

Amy Barclay

Major: Humanities
The Clash of Science and Religion: Embryonic Stem Cells
 Adviser: John Resch

Danielle Boutin

Major: Humanities
The Scopes Trial: The Clash of Evolution and Creationism
 Adviser: John Resch

Revolution and Democracy

Bruce Benard

Major: History
The Dred Scott Case: American Democracy and the Anti-Slavery Movement, 1857–1858
 Adviser: John Resch

Michael Brunelle

Major: History
Case Studies in American Public Education: Horace Mann and the State of New Hampshire v. Claremont Case
 Adviser: John Resch

John Clair

Major: History
The Millerites and Millennialism: 1841–1850
 Adviser: John Resch

Ryan Kimball

Major: History
Grass Roots Democracy: The Clamshell Alliance, 1976–1978
 Adviser: John Resch

Larry Habel

Major: History
Nat Turner Rebellion: Public Response and Virginia Slavery Debate, 1831–1832
 Adviser: John Resch

Amanda Massahos

Major: History
Public Response to the Amistad Case, 1839–1842
 Adviser: John Resch

Michelle Mitchell

Major: History
Manchester, N.H., 1840–1850: The Public Record
 Adviser: John Resch

Jamie Ray

Major: History
The Struggle for Personal and Civil Liberation, 1960–1980: The Pill, ERA, and Roe v. Wade
 Adviser: John Resch

Jonathan Sandlin

Major: History
Democracy and the West: The Admission of Utah in the Union
 Adviser: John Resch

Amanda Sinotte

Major: History
Public Response to John Brown’s Raid on Harper’s Ferry, 1859–1860
 Adviser: John Resch

Jeffery Sojka

Major: History
The Civil Rights Act of 1866
 Adviser: John Resch

An evening with John McQuaid

WEDNESDAY, APRIL 25
8 PM

Memorial Union Building,
Granite State Room

**The URC, in partnership with the MUB
Current Issues Lecture Series, presents
an evening with John McQuaid**

Pulitzer Prize winner and author of
*Path of Destruction: The Devastation
of New Orleans and the Coming Age of
Superstorms*, John McQuaid delivers the
URC keynote address, “Are we
ready for the environmental
threats of the 21st century?”

Reserve free tickets at
www.unh.edu/urc.



UNH Manchester Film Presentations

THURSDAY, APRIL 26
11 AM–1 PM

UNHM Auditorium

**The film presentations at UNH
Manchester are part of the
communication arts program, in
which students complete introductory
and advanced course work in
video production, scriptwriting,
audio production, film aesthetics,
and documentary production. The
student films illustrate their work at
different stages in the curriculum.**

Shawn Allaire
Bryan Connington
Major: Communication Arts
Quiet Time
Adviser: Skip Tenczar

Shawn Allaire
Steven Bowles
Bryan Connington
Major: Communication Arts
Jump to Conclusions
Adviser: Skip Tenczar

Shawn Allaire
Bryan Connington
Steve Whalen
Major: Communication Arts
Breakdown
Adviser: Skip Tenczar

Steven Bowles (Business)
Tavia Lee-Goldstein (Communication
Arts)
The Big Night
Adviser: Skip Tenczar

Stephanie Farrow (Communication
Arts and Art Studio)
Terrence Goyette (Communication Arts)
In the Bag
Adviser: Skip Tenczar

James Galipeault
Majors: Psychology and
Communication Arts
Showdown
Adviser: Skip Tenczar

Hilary Harris
Major: Communication Arts
St. Michael's Project
Adviser: Skip Tenczar

Tavia Lee-Goldstein
Major: Communication Arts
Paper Hero: The Story of Origami Boy
Adviser: Skip Tenczar

Katherine Potter
Major: Communication Arts
A Man and the Moon
Adviser: Skip Tenczar

Naked Arts— Creativity Exposed!

THURSDAY, APRIL 26
3:30–6:30 PM

Hennessy Theatre,
Paul Creative Arts Center

(Reception to follow in The Art Gallery)

Samantha Cistulli
CJ Lewis
Aaron Sharff
Major: Theatre
Deconstructing Woyzeck
Advisers: David Richman and David Kaye

Tucker Sansom Cummings (Theatre and
History)
Michael D'Errico (Music Education)
Lily Finnigan-Allen (Art History)
Nathan Horton (Music)
Kelsey Keenan (Art Studio)
John Mehrmann (Music)
*Artistic Improvisations:
A Cross-Discipline Creative Process*
Advisers: David Kaye, Rob Haskins, and
Jennifer Moses

Michael D'Errico
Major: Music Education
*Wildstyle Metaphysics:
The Compositional Process of the
Hip-Hop DJ*
Adviser: Rob Haskins

Lauri Lannan
Major: Art Studio
Photographic Progression
Adviser: Jennifer Moses

Brian Miner
Major: Music Education
Fostering Children's Musical Creativity
Adviser: Susan Hatfield

Katharine Mock
Major: Art Studio
Exposed: Art, Media, and the Lost Boys
Adviser: Jennifer Moses

Megan O'Connor

Major: Theatre

Inaction in Action

Advisers: Deborah Kinghorn, David Kaye,
and David Richman

Alexandra Ross-Raymond

Majors: Studio Art and Women's Studies

*Homage to Paula Modersohn-Becker, A
Studio Study of Women and Self Portraits
in Germany*

Adviser: Jennifer Moses

Ashley VandeBogart

Major: Theatre

Reflections of Electra

Adviser: David Kaye

Breakfast with UNH Interim President J. Bonnie Newman and Vice President for Research John Aber

FRIDAY, APRIL 27

9–9:30 AM

**Memorial Union Building,
Granite State Room**

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



ASHLEY VANDEBOGART '07

Theatre and Dance

College of Liberal Arts

Faculty Mentor: Associate Professor David Kaye

Emanating Electra

ELECTRA IS MAD. Her mother killed her father because he sacrificed Electra's sister so the Greek ships could smoothly sail to Troy. Electra is so hurt and angry that she and her brother, Orestes, devise a plan to kill their mother and her lover!

The subject of my research, the Greek tragedy heroine Electra, is seen as the epitome of the angst-ridden teenage girl. But she is so much more than that. She has so much passion, heart, love, resentment, and yes, anger. At the URC, I will bring Electra to life through a series of monologues and scenes from the many plays written about her.

At the end of the show I will tie all the different emotions together with a scene from a play called "Curse of the Starving Class" written by Sam Shepard. This scene introduces a new Electra character, a little girl named Emma who brings Electra's angst full circle to live again in someone else.

See Ashley's portrayal of Electra at The Naked Arts—Creativity Exposed! event on Thursday, April 26, 3:30–6:30 p.m. at the Hennessy Theatre, Paul Creative Arts Center.



MICHAEL SIMMONS '07

Forest Technology

Thompson School of Applied Science

Faculty Mentor: Professor Matthew Chagnon

Tapping in

UNH BOASTS MORE THAN 3,800 ACRES OF FORESTLAND, including special pockets of sugar maples. With my research project I set out to determine the feasibility of a UNH maple sugaring operation.

Using forest-sampling methods, I determined the number of taps that the UNH Woodlands sugar maples could support. Using that number and the physical layout of the sampled sugar maple stands, I researched the appropriate types of collection and production systems.

See Mike's results at the Thompson School's Student Showcase on Wednesday, April 25, 11 a.m.-2 p.m. at Stacey's in Cole Hall.

Vice President's University-wide Symposium

Poster Presentations: Session A

FRIDAY, APRIL 27

9:30-10:40 AM

**Memorial Union Building,
Granite State Room**

Melissa Allen

Major: Psychology

*Calcium Oxalate as an Indicator of Stress
at Two Sites on Mount Moosilauke*

Adviser: Barry Rock

Christopher Anason

Major: Mechanical Engineering

*Studying the Effects of Road Salt Spray
and Runoff on the Foliage and Growth
of White Pines*

Advisers: Steve Hale and Barry Rock

Magdalen Balz

Major: Communication Sciences and
Disorders

*Evaluation of a Community-based Day
Facility for Adults with Acquired Brain
Injury*

Adviser: Michael Fraas

Karinne Brobst (Psychology and
Justice Studies)

Maria Crossman (Psychology)

Danielle DiFranco (Psychology and
Justice Studies)

Allyssa Lanza (Psychology)

*An Implicit Measure of Victim/
Perpetrator Responsibility: The Effect
of Reputation*

Adviser: Ellen Cohn

Jodi-Ann Burey (McNair Scholar)

Major: Communication

*Global Media, Hyperconsumerism, and
Social Identity: An Exploratory Study*

Adviser: Jamel Santa Cruz Bell (Boston
College)

Emily Carter

Major: Psychology

Verb Tense as a Predictor of Reader Reactions to Autobiographical Narratives

Adviser: David Pillemer

Lindsey Connell

Major: Social Work

Sexually Transmitted Diseases

Adviser: Robert Jolley

Jenna Darling

Major: Psychology

Why You Can't Teach an Old Rat New Tricks: How Cholinergic Lesions to the Temporal Lobe Mimic Aging

Adviser: Jill McGaughy

Katelyn Dolan

Major: Environmental Conservation Studies

Pan-Arctic Temperatization: A Preliminary Study of Future Climate Impacts on Agriculture Opportunities in the Pan-Arctic Drainage System

Advisers: Richard Lammers and Charles Vorosmarty

Robert Gilbert

Major: Health Management and Policy

No Money, No Mission: The Importance of Charity Care Programs

Adviser: James Lewis

Nichole Guenard

Major: Psychology

Sexually Explicit Advertisements: Does Belief in Rape Myth Differ?

Adviser: Ellen Cohn

Kara Judson

Major: Biology

Examination of Fas Aggregation on Bovine Luteal Cells: Influences of Cytokeratin 8/18 (CK8/18) Intermediate Filaments

Adviser: David Townson

Ginny King

Major: Nutritional Sciences

Bone Health in the College-Age Population

Adviser: Jesse Morrell

Alice Kirega (McNair Scholar)

Major: Biology

Cloning Human Interleukin-2

Adviser: Stephen Torosian

Lisa Landry

Major: Nursing

The Experience of Childbirth in China: A Direct Observational Study

Advisers: Gene Harkless and Carol Williams-Barnard

Stacey Lynch

Major: Social Work

Harbor Schools and Family Services: Group Homes

Adviser: Robert Jolley

Sarah Marcoux

Major: French Studies

La Torture: Examining the Battle of Algiers as a Human Rights Failure

Adviser: Claire Malarte-Feldman

Troy Maynard

Major: Communication Arts

WMUR Internship—Entering the Production Field

Adviser: Skip Tenczar

Caitlin Mussey

Major: Nursing

The Lived Experience of an Unplanned Cesarean Section

Advisers: Lynette Ament and Carol Williams-Barnard

Abigail Noyce

Major: Psychology

Aperture Effects on Texture and Perspective Depth Cues

Adviser: William Stine

Nichole Phelan

Major: Social Work

Child Abuse and Neglect: The Triad of Influence

Adviser: Robert Jolley

Jennifer Ryan

Major: Social Work

New Outlook Teen Center

Adviser: Robert Jolley

Elizabeth Summers

Major: Sociology

Video Game Violence and Its Effects Upon Violence in Reality

Adviser: Catherine Moran

Iris Tavarez (McNair Scholar)

Major: Sociology

Success Stories: Factors that Influenced Ten Latina Students' Decision to Attend College

Adviser: Eve Spangler (Boston College)

Sarah Vandeventer

Major: Biology

Biological Applications of Chemistry through Case-Based Learning

Adviser: Charlie Cox

Ashley Ward

Major: Psychology

Bystander Attitudes: Sexual and Intimate Partner Violence

Adviser: Victoria Banyard

Sarah Wright

Major: Sociology

Sexual Abstinence Among College Students

Adviser: Jean Elson

*Explorations of Social Work Practice Through Service Learning***Amanda Agnelli**

Major: Social Work

Head Start's Utilization of Parents in Policy Councils

Adviser: L. Rene Bergeron

Catlin Basile

Majors: Social Work and Spanish

Is Your Life Filled With Healthy and Positive Relationships?

Adviser: L. Rene Bergeron

Kelly Byron

Major: Social Work

Navigating Your Way Through Health Care

Adviser: L. Rene Bergeron

Stacey Calhoun

Majors: Social Work and Spanish

Lifelong Family Connections

Adviser: L. Rene Bergeron

Allyson Levy

Majors: Social Work and Outdoor Recreation
Mentoring
Adviser: L. Rene Bergeron

Jeanne Murray

Major: Social Work
Alzheimer's Disease
Adviser: L. Rene Bergeron

Danielle Riss

Major: Social Work
Frannie Peabody Center: HIV Services in York County, Maine
Adviser: L. Rene Bergeron

Quinn Stein

Major: Social Work
Strafford County Department of Corrections Program Department
Adviser: L. Rene Bergeron

Darci Tretter

Major: Social Work
The Dover Teen Center
Adviser: L. Rene Bergeron

Vice President's
University-wide
Symposium

Oral Presentations:
Session A

FRIDAY, APRIL 27
9:30–10:40 AM

Memorial Union Building

MUB, Room 203

Screening the American Dream in Sports Films

Moderator: Beverly James

Lesley Angellis

Major: Communication
Masculine Identity in Mystery, Alaska
Adviser: Beverly James

Joseph Botelho

Major: Communication
It's Not the Size of the Bull in the Rage: It's the Size of the Rage in the Bull
Adviser: Beverly James

Jillian Craig

Major: Communication
Adding Femininity to Sports in A League of Their Own
Adviser: Beverly James

Stephanie Heuter

Major: Communication
Overcoming Adversity: The Struggle to 'Girlfight'
Adviser: Beverly James

Luke Kyle

Major: Communication
Self-Determination and Hope: The Cornerstones of a Miracle
Adviser: Beverly James

Katie Madormo

Major: Communication
Overcoming Adversity in Rudy
Adviser: Beverly James

Lauren O'Connor

Major: Communication
The Eternal Optimist: Violet Brown in National Velvet
Adviser: Beverly James

Jamie Rauscher

Major: Communication
Friday Night Lights: American Values in Small Town Football
Adviser: Beverly James

Nicholas Travalini

Major: Communication
Silencing the Critics: 'Rocky' as the Ultimate Underdog
Adviser: Beverly James

MUB, Room 207

Multidisciplinary Session I: The Virgin, Feminism, and Black Worldliness

Moderator: TBA

Brian Rebholtz

Major: Anthropology
Behold the Virgin: Examining the Interpretation and Negotiation of the Sacred in Marian Apparitions
Adviser: David Frankfurter

Rachel Umberger

Majors: History and Women's Studies
Anti-Feminist Rhetoric of a Feminist
Adviser: Marla Brettschneider

Morgan Wilson (McNair Scholar)

Major: History
"The Negro Problem Became a World Problem": Imagined Communities of Black Worldliness and the 1945 Moment
Adviser: Davarian Baldwin (Boston College)

MUB, Room 233

Understanding Communities in Flux

Moderator: Sharyn Potter

Jessica Bean

Major: Sociology
The Effects of Sociodemographic Variations and Strain on the Self-Concept of Rural Single Mothers
Adviser: Heather Turner

Shannon Bryne (Sociology and Justice Studies)

Shauna Mahoney (Sociology)

Jamie Morrill (Sociology)
The Effects of Coerced Treatment for Problem Drinkers on Relapse Rates
Adviser: Sharyn Potter

Kiley Flanagan (Sociology)

Brien Leary (Sociology and Justice Studies)
The Knowledge University of New Hampshire Students Have on Immigration
Adviser: Priscilla Reinertsen

MUB, Rockingham Lounge, 3rd floor*Power and Practice: Women Working in the Community***Moderator: Mary M. Moynihan****Megan McLean**

Major: Anthropology

Adviser: Mary M. Moynihan

Bligh Reynolds

Major: Psychology

Adviser: Mary M. Moynihan

Erin Stanton

Major: Sociology

Adviser: Mary M. Moynihan

Emily Todd

Major: History

Adviser: Mary M. Moynihan

Cory Towne

Major: Women's Studies

Adviser: Mary M. Moynihan

MUB, Room 302*Fidelity Investments: Marketing Career Opportunities***Moderator: Peter Masucci****Kristen Ackerson****Alexandra DeCola****Laura Horton****Melissa Mastrola****Joel McMinn****Andrew Murphy****Jessica Romaine**

Major: Business Administration

Adviser: Peter Masucci

**ASHLEY BUSA '07***Business Administration**Whittemore School of Business and Economics (WSBE)**Faculty Mentor: Adjunct Professor Peter Masucci***Go ahead. Get ahead.**

FORTY-FOUR PERCENT of New Hampshire high school graduates do not go directly to college. My classmates and I in the Whittemore School's Marketing Workshop are working to change that.

"Go ahead. Get ahead." (GaGa for short) is a marketing campaign intended to promote the attractiveness and attainability of a college education to young adults who are undecided about whether or not to attend college after graduating from high school.

Developing GaGa required a lot of research. We conducted focus groups with high school students to learn everything we could about our target market. Then we created marketing collateral based on that research and tested the collateral with more high school students. The process paid off. When we presented the campaign and prototypes to our client, the University System of New Hampshire (USNH), reactions were overwhelmingly positive. In fact, through USNH, our work attracted the interest of the New York Times foundation, which offered to fund the trial phase of the campaign.

Students in this semester's Marketing Workshop are bringing the campaign to implementation. I feel extremely privileged still to be a part of this project as a teaching assistant for this class.

Until GaGa, I did not realize how much I enjoyed research. I now know that research is a fundamental component for ensuring success. It is fun, exciting, and sometimes challenging, but always rewarding.

Hear more about Ashley's work on the GaGa campaign at the Vice President's University-wide Symposium on Friday, April 27, 10:50 a.m.–noon in the MUB, room 302.

*Hamel Center for
Undergraduate Research:
Marketing the Center to WSBE
Students and Faculty*

Moderator: Peter Masucci

Benjamin Brown
Kiryl Harris
Andrew Letendre
Kyle Marini
Seth Minard

Major: Business Administration
Adviser: Peter Masucci

*Starbucks Coffee: Measuring
and Affecting Loyalty of Coffee
Drinkers*

Moderator: Peter Masucci

Jill Dolan
Kimberly Gee
Michael Giurleo
Kevin Grady
Tyler Kelley
Teresa McNamara
Jennifer Natsios
Matthew Simpson

Major: Business Administration
Adviser: Peter Masucci

MUB, Room 321

*Multidisciplinary Session II:
Athletes, Outdoor Orientation,
Speech, and Music*

Moderator: TBA

Lia Barros

Major: Nursing
*The College Athlete's Perception of the
Athlete's Susceptibility to Alcohol Use*
Advisers: Pam DiNapoli and
Carol Williams-Barnard

Stephen Calcavecchia, Jr.

Major: International Affairs and
Linguistics
*Sounding Gay: An Acoustic Analysis of
Gay Male Speech*
Adviser: Naomi Nagy

Mark Diederling

Branden Vigneault

Major: Kinesiology
*A National Census of College Outdoor
Orientation Programs*
Adviser: Brent Bell

Brian Miner

Major: Music Education
*Fostering Musical Creativity in the
Elementary Music Classroom*
Adviser: Susan Hatfield

MUB, Room 330

*Post-Communist Search for
Security*

Moderator: Irina Trubetskova

Michael P. Allard

Major: Mechanical Engineering
*Struggling for Peace, Security and
Democracy: Eastern Europe After the
Cold War*
Adviser: Lawrence C. Reardon

Lesley Collier

Majors: International Affairs and Political
Science
*Communism West of the Iron Curtain:
Il Partito Comunista Italiano*
Adviser: Lawrence C. Reardon

Caitlin Johansen

Majors: International Affairs and
Sociology
*The Start of Something New: The 1956
Hungarian Revolution and their Journey
to Independence*
Adviser: Lawrence C. Reardon

Susannah Pratt

Majors: International Affairs and Political
Science
*A Country on the Move: Overlooked
Realities of Rural to Urban Migration in
China*
Adviser: Lawrence C. Reardon

MUB, Room 332

Immigration and Tolerance

Moderator: Marilyn Hoskin

Adam Gould

Majors: International Affairs and
Anthropology
*Castilian Primacy: Exploring the Role
of Minority Languages in Peninsular
Spanish*
Adviser: Lawrence C. Reardon

Morgan Kyrka

Majors: International Affairs and History
*The Flow of Immigrants from Africa to
Spain and Beyond: Political, Economic,
and Cultural Concerns*
Adviser: Lawrence C. Reardon

Kyle Moore

Majors: International Affairs and Spanish
*What's with the Wall? Mexico's Mounting
Immigration Issues*
Adviser: Lawrence C. Reardon

Carolyn Preston

Majors: International Affairs and
Anthropology
*'Reconquista': Andalusian Fears of a
Culture Invasion*
Adviser: Lawrence C. Reardon

Mary Undercoffler

Majors: International Affairs and Family
Studies
*A Prosperous Haven or Another Place
of Hardship? Immigration in Spain*
Adviser: Lawrence C. Reardon

MUB, Room 334

*Terrorism, Crime, and
Corruption*

Moderator: Frank McCann

Emma Brown

Majors: International Affairs and
Psychology
*Crime and Corruption in Present Day
Italy*
Adviser: Lawrence C. Reardon

Andrew Genung

Majors: International Affairs and Anthropology
Pushing Back Shadows: A Bloody Struggle on a Shining Path
 Adviser: Lawrence C. Reardon

Laura Kash

Majors: International Affairs and Political Science
The Revolutionary Mystique and Terrorism in Contemporary Italy: The Face of Terror Foretold by the Red Brigades
 Adviser: Lawrence C. Reardon

Alex LeBaron

Majors: International Affairs and Political Science
Pursuing Pinochet: How to Arrest a Chilean Dictator
 Adviser: Lawrence C. Reardon

Sara Sohm

Majors: International Affairs and Political Science
Cosa Nostra: Understanding Sicily's Foremost Criminal Organization
 Adviser: Lawrence C. Reardon

MUB, Room 336*Growing Out of Poverty***Moderator: Fred Kaen****Nicole Chalifoux**

Majors: International Affairs and Political Science
Conflicts of a Unified Nation: The Hidden Differences Disparaging Northern and Southern Italy
 Adviser: Lawrence C. Reardon

Elizabeth Perez

Majors: International Affairs and Spanish
Combating Poverty in Spain
 Adviser: Lawrence C. Reardon

Kathryn Strifflino

Majors: International Affairs and Political Science
Paying for History: The Spanish Economic Route
 Adviser: Lawrence C. Reardon

Juliet Tarantino

Majors: International Affairs and Anthropology
Profitable Business, Worthless Language: Commercial Success and Rejection of Tradition in Otavalo, Ecuador
 Adviser: Lawrence C. Reardon

Pajika Voravittayathorn

Majors: International Affairs and Political Science
Living a Higher Life: The Aftermath of the Economic Reforms in China
 Adviser: Lawrence C. Reardon

MUB, Room 338*Political Participation in Democratic States***Moderator: Albert Griffin****Megan Breen**

Majors: International Affairs and Political Science
The Importance of Elections in Africa: A Comparative Study of Senegal and the Ivory Coast
 Adviser: Lawrence C. Reardon

Jacob Howard

Majors: International Affairs and Political Science
Protest: The Power of French Students
 Adviser: Lawrence C. Reardon

Liz Kyriacou

Majors: International Affairs and Political Science
Latin American Politics: Understanding the Shift to the Left
 Adviser: Lawrence C. Reardon

Kayla McCarthy

Majors: International Affairs and Political Science
The Impact of the Roman Catholic Church on Austrian Political Parties
 Adviser: Lawrence C. Reardon

Emily Soderman

Majors: International Affairs and Political Science
The Rise of the Far-Right: The French Answer to its Identity Crisis
 Adviser: Lawrence C. Reardon

MUB, Room 340*Political Science: Civil Society at Home and Abroad*

Moderator: Jeannie Sowers
Discussant: Dovev Levine-Luong

Laura Carpenter

Major: Political Science
Wind: Bringing Renewable Energy Home
 Adviser: Jeannie Sowers

Caitlin Dixon

Katie Kunhardt
 Major: Political Science
Wetlands Conservation: An Integrated Study of International, National, and Local Laws and Practices
 Adviser: Jeannie Sowers

Colleen Flaherty

Major: Political Science
Democracy without Citizens? Assessing Civil Society in Chile
 Adviser: Mary Malone

Alexandra Varga

Majors: International Affairs and Environmental Conservation Studies
Water Privatization: the Struggle for the Right to Water in a Capitalist Society
 Adviser: Jeannie Sowers

Vice President's University-wide Symposium

Poster Presentations: Session B

FRIDAY, APRIL 27
10:50 AM-NOON

**Memorial Union Building,
 Granite State Room**

Rebecca Blaine

Major: Nursing
Young Mens' Attitudes Towards Breastfeeding
 Advisers: Gene Harkless and Carol Williams-Barnard

Sandy Chu (McNair Scholar)

Major: Psychology

Video Games and their Effects on Mental Rotation and Hostility

Adviser: Susan Menees (Boston College)

Alicia DeSando

Major: Social Work

Hobbs House Help Center

Adviser: Robert Jolley

Emily Duynstee

Major: Sociology

Non-Medical Use of Prescription Drugs on College Campuses: Student Use of Adderall and Ritalin

Adviser: Sharyn Potter

Grace Festin (McNair Scholar)

Major: Chemistry

Synthesis of Fluoro Tyrosine Inhibitors

Adviser: Steve Bruner (Boston College)

Loreen Fournier

Major: Biochemistry and Molecular Biology

Mechanism of Estrogen Receptor Alpha and Her2 Heterodimerization in Human Breast Carcinoma Cells

Adviser: Andrew Laudano

Kelley George

Major: Undeclared

Study of Daphnia

Adviser: Steve Hale

Tara Goulet

Major: History

"Power to the People!" Socialist Visions in the Black Panther Party and the U.S. Prison Movement

Advisers: J. William Harris and Lucy Salyer

Bonnie Graham

Major: Psychology

The Serial Position Effects Found in "The Euclidean Distance Estimation vs. Word Recognition Memory" Exploratory Study

Advisers: John Limber and Anne Gilman (graduate student)

Jennifer Herman

Major: Nursing

Well Child Health Care in Wales

Adviser: Gene Harkless

Kirsten Hildonen

Major: History

The Spies Who Saw Through Me

Adviser: Robert Macieski

Christina Holman

Major: Social Work

Families in Transition Employment and Job Training Program

Adviser: Robert Jolley

Ariel Hudson

Major: Animal Sciences

Role of Cytokeratin 8/18 Intermediate Filaments in the Bovine Corpus Luteum: Protection Against Fas Ligand-Induced Apoptosis?

Adviser: David Townson

Melissa Jeffers

Major: Health Management and Policy

Assessing Emergency Preparedness in New Hampshire's Hospitals

Adviser: Robert McGrath

Jessica Jolin (Kinesiology)**Hannah Lally** (Kinesiology and Communication)*West Virginia University's Adventure-Based Orientation: A Qualitative Analysis of Student's Post-Trip Essays*

Adviser: Brent Bell

Triet Le (McNair Scholar)

Major: Chemical Engineering

The Effect of Process Parameters on Electrodeposited Copper-Indium-Gallium-Diselenide (CIGS) Films

Adviser: Dale Barkey

Lindsay Martel

Major: Nursing

The Challenges and Rewards of Working as a Direct Care Provider in the United States and Guatemala

Advisers: Joyce Cappiello and Carol Williams-Barnard

Allison Mazerall

Major: Psychology

Does Distance Estimation Accuracy Improve Over Multiple Attempts?

Advisers: John Limber and Anne Gilman (graduate student)

Cathryn Minshall

Major: Sociology

Student Attachment

Adviser: Catherine Moran

Michelle Mitchell

Major: History

"AME," A Referential Database of the City of Manchester, New Hampshire 1818-1850

Adviser: Robert Macieski

Heather Noyes

Major: English

Nature as Teacher

Adviser: Michael Andrew

Laura Palombo

Major: Kinesiology

The Effects of a Long Distance Run on Creatine Kinase Levels 24, 48, and 72 Hours Post-run

Advisers: Allison Sigler and Timothy Quinn

Richard Paul (McNair Scholar)

Major: Geology

Water Quality at the Cambridge, Massachusetts Drinking-Water Supply System

Adviser: Rudolph Hon (Boston College)

Bligh Reynolds

Major: Psychology

Impact of Hypothermia on Intermittent Swim Stress Induced Deficit in Spatial Learning in Rats

Adviser: Robert Drugan

Joshua Sapochetti

Major: History

The Shaping of American Identity and the Impact of Television

Adviser: David Watters

Tarah Snee

Major: Sociology

The Washington Center for Internships and Academic Seminars

Advisers: Paula DiNardo and Catherine Moran

Megan Sullivan (McNair Scholar)

Major: Psychology

Professionals' Knowledge of the Psychopathic Construct: Are Clinicians Bound by the DSM IV Criteria?

Advisers: Susan Boatright and Robert Eckstein (University of Rhode Island)

SHARYN POTTER

Associate Professor

Affecting change

ON SATURDAY MORNINGS, many parents take their kids to soccer games, swim meets, or Tumble Tots. Sharyn Potter and her spouse load their daughters into the backseat of the car and drive across the Seacoast asking neighbors to post signs for their favored political candidate. When a neighbor agrees to post a yard sign, six-year-old Mira and three-year-old Lilia get an M&M candy.

"It's everyone's responsibility and privilege to work together for change," Potter says.

Potter deploys the same grassroots approach to her research collaborations—getting the results on the street to affect policy and/or people.

As a sociologist, "I am interested in the application of research to make social change," Potter says.

Potter helped lead the development and evaluation efforts of a first-of-its-kind bystander poster campaign aimed at challenging community members to play a role in helping end violence against women. In the posters, bystanders ponder their role in situations where violence is imminent, and ultimately choose to intervene. Based on follow-up evaluations to measure the effectiveness of the campaign, Potter and collaborators determined that those who had viewed the posters had a greater awareness about sexual violence. Other institutions have since expressed interest in adopting the campaign.

Most recently, Potter and other UNH researchers collaborated on the first-ever survey of New Hampshire women to measure the prevalence of sexual violence and domestic violence in the state. Working with the New Hampshire Coalition Against Domestic and Sexual Violence and the New Hampshire Department of Public Health, they surveyed 508 Granite State women. The findings were profound: nearly one in four have experienced a completed sexual assault in their lifetime. Last month, Potter and colleagues released these numbers in a press conference at the N.H. Attorney General's office. Potter says state and organizational leaders will use the results to help improve services and prevention programs for victims and would-be perpetrators.

Potter strives for change on campus by serving on the University's Sexual Harassment and Rape Prevention Program (SHARPP) advisory board—a position she's held for eight years. And she serves as codirector of the UNH Prevention Innovations Center, the only university center in the country focused exclusively on preventing violence against women on college campuses.



Potter's make-an-impact philosophy translates to the classroom. In her biennial internship class, students go into community organizations and develop projects that help fill their needs. For Melissa Mangold '07, an internship at A Safe Place, a crisis center providing services to survivors of domestic abuse, prompted her to study violence within the college-age population for her senior University Honors Program thesis.

This week, Mangold and other Potter protégés share what they've discovered. At the Undergraduate Research Conference, they will disseminate results from studies ranging from dating abuse and problem drinker relapse rates, to student use of the prescription drugs Adderall and Ritalin for non-medical purposes.

"The UNH Undergraduate Research Conference is an integral part of the UNH undergraduate experience," says Potter. Over the past six years, she has mentored more than a dozen student presenters and has been an active member of the URC planning committee. In addition, Potter chairs the two-year-old URC evaluation committee, which designs, administers, and evaluates a survey of URC participants and faculty mentors to measure the effectiveness of the conference experience. (See related story page 2.)

"Presenting at the URC gives students self-confidence," Potter says. "And it's good for parents to see how their son or daughter has grown intellectually."

"Plus, it gets their work out there where it has an opportunity to make an impact."

Kathryn Weitz

Major: Social Work

Services for Survivors of Sexual Assault and Their Loved Ones

Adviser: Robert Jolley

Lindsey Wetteland

Major: Occupational Therapy

Stress and Occupation: Analyzing the Relations Between Perceived Stress Levels and Occupational Repertoire

Adviser: Barbara Prudhomme White

Julie Wigin

Major: Health Management and Policy

The Mitigating Effect of Hardiness on the Factors Related to Poor Body Image

Adviser: Robert McGrath

Vice President's
University-wide
Symposium

Oral Presentations:
Session B

FRIDAY, APRIL 27

10:50 AM–NOON

Memorial Union Building

MUB, Room 203

Taking it on in Communication: Photography, Humor, Music, and Sports

Moderator: Mardi Kidwell

Lindsey Charles

Major: Communication

And Nothing but the Truthiness: How The Daily Show and The Colbert Report's Rhetoric of Humor Has Revitalized Public Debate

Adviser: Jennifer Borda

Adrian Kerrison

Major: Communication

The Three People You'll Meet at a Hockey Game

Adviser: Mardi Kidwell

Rachel Umberger

Major: Communication

The Morality of Aesthetics: Using Robert Pirsig's Metaphysics of Quality to Objectively Evaluate Music

Adviser: Michael Jackson

Matthew Willis

Major: Communication

The Burning Monk Photograph: Iconic Requirements

Adviser: Michael Jackson

MUB, Room 207

Multidisciplinary Session I: Shklovsky, Profiles, and Hadrian's Wall

Moderator: TBA

Benjamin Clemenzi-Allen

(McNair Scholar)

Major: English

Awakening (an) Aesthetic: Contextualizing Viktor Shklovsky's Ostranenie in Lyn Hejinian's My Life

Adviser: Ruth Jennison (UMass Amherst)

Mark Kilens

Major: Tourism Planning and Development

Linking Market Valued Community Skill Profiles with Corporate Outsourced Functions to Identify Financially Attractive Sourcing Targets

Adviser: Lyndon Goodridge

Elizabeth McFadden

Major: History

Living on the Edge: The Staffordshire Moorlands Pan and Life Along Hadrian's Wall

Adviser: Gregory McMahon

MUB, Room 233

Multidisciplinary Session II: Popular Culture, Healthcare, and Pedagogy

Moderator: Beverly James

Adam Donovan

Major: Communication

A Narrative Analysis of Television's One Hour Drama: A Case Study of Lost, 24 and The O.C.

Adviser: Beverly James

Sarah Henson

Major: Health Management and Policy

Women in Health Care Management: A Struggle to the Top

Adviser: Leslie MacLeod

Troy Maynard

Major: Communication Arts

Survivor-the Ultimate "Survivor" of Popular Culture

Adviser: Skip Tenczar

Christa Ricker

Major: Kinesiology

Transitioning to College Using Different Pedagogical Approaches

Adviser: Brent Bell

MUB, Rockingham Lounge, 3rd floor

Women's Studies Works: Demonstrations of Community Activism

Moderator: Mary M. Moynihan

Brittany Fecteau

Major: Women's Studies

Adviser: Mary M. Moynihan

Sarah LoPresti

Major: Sociology

Adviser: Mary M. Moynihan

Katia Mathieu

Major: Women's Studies

Adviser: Mary M. Moynihan

Amanda Potter

Major: Sociology

Adviser: Mary M. Moynihan

Carli Stevenson

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

MUB, Room 302

*Go Ahead, Get Ahead (GaGa)
Part-2: Influencing High School
Students to Aspire to Attend
College*

Moderator: Peter Masucci

Brett Berger
Jeffrey Blake
Ashley Busa
Megan Call
Daniel Epner
Hannah Fisher
Shauna Moran
Kathleen Petroff
Meghan Pritchard
Taylor Schwab
Kristina Seid
Amy Surles
Major: Business Administration
Adviser: Peter Masucci

*Go Ahead, Get Ahead (GaGa)
Part-3: Influencing High School
Students to Aspire to Attend
College*

Moderator: Peter Masucci

Alicia Cass
Lauren Daigle
Thomas Fitzgerald
Samantha Freni
Christina Houle
Anna Jurta
Jenna Lavery
Kristen Leone
Keith LeVan
Erin McCann
Mackenzie O'Connell
Janelle Proctor
Jennifer Ryan (Social Work)
Major: Business Administration
Adviser: Peter Masucci

*New York Times: Marketing
Entrepreneurship Week USA
Event*

Moderator: Peter Masucci

Sheena Foye
Jessica Gardner
Michael Giovinelli
Andrew Hinds
Karlee Horan
Emily King
Jenna Maver
Jaime Pruzansky
Katie Scheier
Major: Business Administration
Adviser: Peter Masucci

MUB, Room 321

Political Thought

Moderator: TBA

David Afonso
Major: Political Science
*A Critical Assessment of Simone
de Beauvoir's The Second Sex*
Adviser: Marla Brettschneider

Phil Brand
Majors: Political Science and Economics
*The End of History as the Road to
Servitude*
Adviser: Warren Brown

Pajika Voravittayathorn
Major: Political Science
*Police Services and Corruption in
Bangkok City*
Adviser: Clifford Wirth

MUB, Room 330

*Protest, Movements, Power,
and Change*

Moderator: Funso Afolayan

Kathryn Daly
Major: Environmental Conservation
Studies
*How French Culture has Shaped Nuclear
Energy Policy*
Adviser: Nicoletta Gullace

Elyse Johnson

Majors: International Affairs and Spanish
*Expelling Dictatorial Influences from
Chilean Education*
Adviser: Nicoletta Gullace

Joel Marks

Major: Philosophy
*The Realization of Cesare Beccaria: Italy's
Relationship with the Death Penalty*
Adviser: Nicoletta Gullace

Alexandra Varga

Majors: International Affairs and
Environmental Conservation Studies
*Accounting for Differences: A Compara-
tive Analysis of the Zapatista Movement*
Adviser: Nicoletta Gullace

Constantina Venetos

Majors: International Affairs and Greek
*Greek Identity and Passions: The
Macedonian Question*
Adviser: Nicoletta Gullace

MUB, Room 332

*Tradition and Modernity:
The Politics of Change in the
20th Century*

Moderator: Ted Howard

Alexandra Baldwin
Majors: International Affairs and
Art History
The Dawn of Modernism
Adviser: Nicoletta Gullace

Julia Blumenfeld

Major: Geography
*Concrete Coast: Impact of Mass Tourism
in Southern Spain*
Adviser: Nicoletta Gullace

Derek Hubbard

Majors: International Affairs and Spanish
CAFTA: Reasons for Resistance
Adviser: Nicoletta Gullace

Christine Leonard

Major: Occupational Therapy
*Pragmatic Progress: Islamic Feminism in
Contemporary Egypt*
Adviser: Nicoletta Gullace

OWEN FRIEND-GRAY '09

Environmental Engineering
College of Engineering and Physical Sciences
Faculty Mentor: Research Assistant Professor Jeffery Melton

An appetite for apatite

MY RESEARCH INVOLVES the adsorption of heavy metals and organic contaminants by a sedimentary rock known as apatite. Due to its unique structure and chemical properties, apatite can adsorb contaminants like a sponge, but hold on to them like a rock. It's an amazing product that could be used for cleaning up contaminated areas such as old factories, tanneries, and riverbeds. This research is important because it can take a river, for example, that is completely unusable and unsafe and transform it into one where people can swim and fish again. Or an old, condemned factory site could be transformed into a playground or park.

I sort of stumbled into this research during my freshman year, but now I can't imagine being at school and not being a part of it. I really love the fact that the work I do holds the potential to help people and make a difference for the environment. I am studying to be an environmental engineer and those last two stated reasons are exactly why. It's also exciting that the work I am doing is unique and fresh and that patents are in the making around the work I am doing.

It feels nice to be working on a problem where the solution is not in the back of a textbook, but somewhere in my mind and my research just waiting to be discovered.

Owen Friend-Gray in action at URC '06.

**Molly Messenger**

Majors: International Affairs and Anthropology
Tanzania: A Case of Forced Migration
 Adviser: Nicoletta Gullace

MUB, Room 334

Insiders and Outsiders: Language, Immigration, and the Problem of Inclusion in Europe

Moderator: Lori Hopkins

Laura Carpenter

Majors: International Affairs and Political Science
Unemployment in France: Its Effect on Discrimination Against the Immigrant Population
 Adviser: Nicoletta Gullace

Lauren Fowler

Majors: International Affairs and History
Catalan Identity and a Fight for Independence
 Adviser: Nicoletta Gullace

Corinna Gilson

Major: Political Science
Running Blind: The Intractable Conflict of E.T.A.
 Adviser: Nicoletta Gullace

Julia Nudelman

Majors: International Affairs and English
The Immigration Issue in Spain
 Adviser: Nicoletta Gullace

Jessica Williams

Major: Linguistics
Slouching Towards Babel: Language Policy, Linguistic Identity, and Social Cohesion in the European Union
 Adviser: Nicoletta Gullace

MUB, Room 336*Law, Crime, and the Problem of Violence***Moderator: Kirk Dorsey****Myra Khan**

Majors: International Affairs and Communication

The Weight of Words: The Construction and Implications of Genocide Discourse in Bosnia and Sudan

Adviser: Nicoletta Gullace

Fiona Mokry

Majors: International Affairs and Sociology

The Mafia's Rise to Power: How it Happened and Why it was Accepted

Adviser: Nicoletta Gullace

Shaun Seaman

Majors: International Affairs and Tourism Planning and Development

Street Violence in Spain

Adviser: Nicoletta Gullace

James SutherlandMajors: International Affairs and History
Clandestine Collaboration or Catalyst of Controversy?

Adviser: Nicoletta Gullace

Candice TurnerMajors: Political Science and Russian
Law in the Russian Federation: Positive Changes and a Hopeful Future

Adviser: Nicoletta Gullace

MUB, Room 338*Shared Living Environment***Moderator: Alan Ray****Jillian Dur**Majors: International Affairs and Spanish
We Treat, Jesus Heals: Christian Influences on Healthcare in Madagascar

Adviser: Lawrence C. Reardon

Nicole Eckert

Majors: International Affairs and Communication

A Healthy Serving of Greens: The Role of the Green Party in Germany's Renewable Energy Policy

Adviser: Lawrence C. Reardon

Nikki Nichols

Majors: International Affairs, Linguistics, and Political Science

Here Comes the Bride—Have a Smoke: Why Tobacco is Killing Spain

Adviser: Lawrence C. Reardon

Laura PlummerMajors: International Affairs and Spanish
Madre e hijo: Abortion Politics and the Lives of Mexican Women

Adviser: Lawrence C. Reardon

Nic TannerMajors: International Affairs and Spanish
Tata's Regime: Human Rights Violations in Augusto Pinochet's Chile

Adviser: Lawrence C. Reardon

MUB, Room 340*Political Science: Conflict, Famine, and Refugees***Moderator: Alynna Lyon****Lesley Collier**

Majors: International Affairs and Political Science

The United States' Changing Perception of Threat: The China Case

Adviser: Lawrence C. Reardon

Liz Kyriacou

Majors: International Affairs and Political Science

International Refugee Crisis: The Global Response to the Darfur Conflict

Adviser: Lawrence C. Reardon

Alicia ShotwellMajors: Political Science and Philosophy
A Study of Increased Nuclear Tensions Between the United States and North Korea

Adviser: Lawrence C. Reardon

Emily Soderman

Majors: International Affairs and Political Science

Famine in Niger: Give Aid or Stay Out?

Adviser: Lawrence C. Reardon

Vice President's University-wide Symposium*Oral Presentations: Session C***FRIDAY, APRIL 27**
1:15–2:25 PM**Memorial Union Building****MUB Theatre I***PC Connection: Marketing Career Opportunities***Moderator: Peter Masucci****Gregory Aiken****Katie Clark****Christopher Cybart****Eric Dandurant****Amanda Delanoy****Benjamin Goodwin****Paige Kinsley****Gregory Pliska****Heather Rackley****Stephen Sakellar****Derek Smyrl**

Major: Business Administration

Adviser: Peter Masucci

*UNH Alumni Association:
Marketing to Current Students*

Moderator: Peter Masucci

Brenna Brink
Amy Demers
Kristen Favuzza
Katerina Karametros
Kristin O'Connor
Cheryl Penaskovic
Chris Romanello
Courtney Sinclair
Meagan Southmayd
Joseph Stopa
Major: Business Administration
Adviser: Peter Masucci

*Bausch & Lomb: Increasing
Awareness and Demand for
LASIK Surgery*

Moderator: Peter Masucci

Stacy Caler
Christene Carbone
Jenny Doane
Kevin Ebert
Josh Francis
Stacy Gorman
Kaitlyn Grant
Hilary Hamilton
Shaun Kellogg
Michelle Kenney
Samantha Kussman
Erin Marshall
Tim Masullo
Janine McCarl
Casey Morrissey
Devon Morrow
Chelsea Moynihan
Kimberly Nasser
Megan Reilly
Krista Sherburne
Elissa Sneider
Katherine Sullivan
Justin Toy
Jenna Voci
Major: Business Administration
Adviser: Peter Masucci

MUB, Room 330

*Multidisciplinary Session I:
Nature, Politeness, Hip-Hop,
and Biodiesel*

Moderator: TBA

Rayne Coleman
Major: Sign Language Interpretation
"Could You Pass the Salt?" Comparing
Politeness Strategies of English Speakers
and American Sign Language Users
Adviser: Jack Hoza

Kristopher Cui
Major: Chemical Engineering
ASTM Biodiesel Gas Chromatograph
Testing and Automation of Biodiesel
Processor
Adviser: Ihab Farag

Michael D'Errico
Major: Music Education
Wildstyle Metaphysics: The Composition-
al Process of the Hip-Hop DJ
Adviser: Rob Haskins

Heather Noyes
Major: English
Nature as Teacher
Adviser: Michael Andrew

MUB, Room 332

*Multidisciplinary Session II:
Poverty, Aspiration, Geographic
Literacy, Religion, and Guns*

Moderator: TBA

Connie Chu (McNair Scholar)
Majors: Economics and Mathematics
Parent, Peer, and Teacher Expectations on
Student Aspirations
Advisers: Cliff Brown (UNH) and
Linda Bui (Brandeis University)

Emily Fekete
Majors: History and Geography
Geographic Literacy Among Students
at the University of New Hampshire:
Fall 2006
Advisers: Alasdair Drysdale and
J. William Harris

Matthew Joyce

Majors: International Business, Political
Science, and Economics
Replacing the United States Rifle, Caliber
5.56mm, M16 and the United States
Pistol, Caliber 9mm, M9 and the
Resulting Effects on the Small Arms
Industry of the United States
Adviser: Bill Machanic

Alice Sheehan
Major: Economics
Bringing up Incentives: A Look at the
Determinants of Poverty
Adviser: Edinaldo Tebaldi

Devon Thomas (McNair Scholar)
Major: Anthropology
Doctrinal Conflict within the
Episcopal Church
Adviser: Stephan Reyna

MUB, Room 334

*Technology and 21st
Century Relationships:
Have Things Changed?*

Moderator: Sharyn Potter

Silas Archambault
Major: Sociology
Social Interaction on Facebook
Adviser: Sharyn Potter

Valerie Hooper
Major: Sociology
The Effect of Television Families on
Real-world Family Perceptions and Sat-
isfaction
Adviser: Catherine Moran

Skye MacKay
Major: Sociology and Justice Studies
College Students' Knowledge, Attitudes,
and Behaviors Surrounding HIV/AIDS
Adviser: Catherine Moran

Melissa Mangold
Majors: Sociology and Justice Studies
Dating Abuse in College Relationships: A
Qualitative Study
Adviser: Sharyn Potter

School of Health and Human Services Grimes Award Competition

FRIDAY, APRIL 27
12:30–3:30 PM

Pettee Hall

Jack and Marianna Grimes and family endowed the funds for this celebration of excellence in undergraduate research. The 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.

Honors English Undergraduate Research Conference

FRIDAY, APRIL 27
1–5 PM

Hamilton Smith Hall, Room 129

To complete Honors-in-English, students must conduct a semester-long research project culminating in a 30-40 page senior thesis. The Honors English URC provides these students and students in the linguistics program with the opportunity to share their work with fellow students, professors, and families. The presentations include original poetry, autobiographical writing, journalism, and scholarship on literary texts from several different centuries.

Stephen Anthony Calcavecchia
Majors: International Affairs and Linguistics

Sounding Gay: An Acoustic Analysis of Gay Male Speech

Adviser: Naomi Nagy

NICHOLAS PERROS '07

Biochemistry

College of Life Sciences and Agriculture

Faculty Mentor: Professor Rick Cote

Eye on vision

My research focuses on the molecular basis of vision. Our retinas consist of two types of photoreceptor cells—rods and cones—which allow us to see in dim and bright lights, respectively. I am studying an enzyme located in rod photoreceptors known as phosphodiesterase-6 (PDE6). The PDE6 enzyme triggers the first events in vision, and its regulation is vital for propagating the nerve impulse telling our brain that light has been detected. While the light activation of PDE6 is well understood, less is known about how PDE6 is turned off, particularly in bright light conditions. A novel rod cell protein called Glutamic Acid-Rich Protein-2 (GARP2) has recently been found to bind to PDE6 with high affinity. How GARP2 might function to regulate PDE6 activation/inactivation is not understood, and is the subject of my research. This work will enhance our knowledge of the visual signaling pathway in photoreceptors, and is medically relevant to understanding retinal diseases such as retinitis pigmentosa.

Talk with Nick at the 16th annual COLSA URC on Saturday, April 28, 7:45 a.m.–2 p.m. at the New England Center.



Sonja Sorensen Fridell

Major: English Journalism
Newspapers and the Online World
 Adviser: Susan Hertz

Tiffany Leigh Heineman

Major: English
The Book Tour: Exploring the Intersection between Fiction and Non-Fiction
 Adviser: Margaret-Love Denman

Harry Lund

Major: English Literature
"A Wonderer's Repose": The Spiritual Life in Charlotte Bronte's Jane Eyre
 Adviser: James Krasner

Michael Luz

Major: English Literature
Performative Identity and Authenticity in The Great Gatsby
 Adviser: Sarah Sherman

Cortney Elizabeth McMullen

Major: English
Issues of Gender Identity in Edith Wharton's Novels
 Adviser: Brigitte Bailey

Lyndsey Ann McMullen

Major: English
The Jane Austen Phenomenon: How Her Themes and Characters Resonate Today
 Adviser: James Krasner

Maureen Reilly

Major: English
Exploring the Relationship between the Aesthetic and Terrorism
 Adviser: Sandhya Shetty

Sarah Elizabeth Rogers

Major: English
Raymond Chandler: From Written Page to Wide Screen
 Adviser: Monica Chiu

Kimberly Toth Watson

Major: English
Danielle Marie Thompson: Working Through Memories
 Adviser: Lester Fisher

Amy Lauren Willenbrock

Major: English Education
The Rapture Trees Feel: A Collection of Poetry
 Adviser: MeKeel McBride

Jim Paul Wood

Major: Linguistics
People are Talking Differently in New Hampshire
 Adviser: Naomi Nagy

Psychology George M. Haslerud Undergraduate Research Conference

FRIDAY, APRIL 27
 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.

Emily Bolton

Major: Psychology
Defining Unwanted Sexual Experiences and Consent
 Adviser: Victoria Banyard

Evan Brooks

Major: Psychology
The Effects of "Friendly Type" Formatting on Reading Comprehension Tests
 Adviser: John Limber

Emily Carter

Major: Psychology
Verb Tense as a Predictor of Reader Reactions to Autobiographical Narratives
 Adviser: David Pillemer

Rachel Costa

Major: Psychology
The Use of Feature and Geometry Information During a Two-Dimensional Task Improves with Development
 Advisers: Brett Gibson and Michelle Leichtman

Jenna Darling

Major: Psychology
Why You Can't Teach an Old Rat New Tricks: How Cholinergic Lesions to the Temporal Lobe Mimic Aging
 Adviser: Jill McGaughy

Martine Garland

Major: Psychology
Sports Memory Recall: Males vs. Females
 Adviser: Michelle Leichtman

Nichole Guenard

Major: Psychology
Sexually Explicit Advertisements: Does Belief in Rape Myth Differ?
 Adviser: Ellen Cohn

Stephanie Huckins

Major: Psychology
Undergraduates and their Eating Practices
 Adviser: Pablo Chavajay

Aislinn Johnson

Majors: Psychology and Family Studies
The Relationship Between Autobiographical Memories and Self Concept in Young Children
 Adviser: Carolyn Mebert

Abigail Noyce

Major: Psychology
Aperture Effects on Texture and Perspective Depth Cues
 Adviser: William Stine

Bligh Reynolds

Major: Psychology
Impact of Hypothermia on Intermittent Swim Stress Induced Deficit in Spatial Learning in Rats
 Adviser: Robert Drugan

Lyndsay Schneiderman

Majors: Biology and Psychology
Cholinergic Modulation of Sensory-Guided Responding in Central Thalamus
 Adviser: Robert Mair

Ashley Ward

Major: Psychology
Bystander Attitudes: Sexual and Intimate Partner Violence
 Adviser: Victoria Banyard

Maria Clara Zoccoli

Major: Psychology

Do Clark's Nutcrackers Actually Know What They Remember?

Adviser: Brett Gibson

Philosophy Undergraduate Research Conference

FRIDAY, APRIL 27
4–8:30 PM

Memorial Union Building,
Rooms 330, 332

The Philosophy URC is a mosaic of concise and meaningful student presentations, varying from such philosophical topics as applied ethics, language theory, and social justice. Presentations are followed by a brief question-and-answer period. All are welcome and sincerely encouraged to attend. Refreshments will be served.

Robert Fisher

Majors: Philosophy and History

Kant and Immortality

Adviser: Willem deVries

Kraig Lamper

Majors: Philosophy and Music

Kant's Thing in Itself

Adviser: Willem deVries

Trevor Mauck

Majors: Philosophy and Political Science

Hume and Morality

Adviser: Willem deVries

Patrick Ryan

Major: Philosophy

The Myth of Technological Progress

Adviser: David Hiley

David Samra

Major: Philosophy

Must the Cosmological Argument Depend Upon the Ontological Argument?

Adviser: Nicholas Smith

Marc Sklar

Major: Philosophy

Democracy is a Dinosaur

Adviser: Timm Triplett

Hannah Varn

Majors: Philosophy and English

Regulative Ideals: A Practical Approach to Global Warming

Adviser: Willem deVries

16th Annual COLSA Undergraduate Research Conference

SATURDAY, APRIL 28
7:45 AM–2 PM

New England Center, Great Bay Room

Student presentations at the 16th annual COLSA URC showcase the research results from various COLSA departments. This broad spectrum of work—from field studies and genomics to developmental and molecular biology—includes many projects conducted in foreign countries. This event is sponsored by the College of Life Sciences and Agriculture Dean's Office and Departments, the Office of Academic Affairs, the Vice President for Research, the Office of Sponsored Research, and the UNH Hamel Center for Undergraduate Research.

Jay Agarwal

Major: Biology

Aether Student Assessment

Adviser: Charlie Cox

Stephanie Allard

Major: Biology

Monitoring Feeding Rates of Algae Intake of Microcystis aeruginosa and Nanochloropsis in Mussels from Silver Lake and Lake Ossipee with a Multiparameter Probe

Adviser: James Haney

Marissa Ambrosi

Major: Environmental and Resource Economics

Impacts of Ecotourism: An Economic, Social, and Environmental Analysis of Central America

Adviser: John Halstead

Elisabeth Antanavich

Major: Biochemistry and Molecular Biology

Determining the Effect of Limonene-3-H Alleles on Peppermint Oil Production in Mint Plants

Adviser: Thomas Davis

Christopher Beninati

Major: Biology

Development of Biology-related, Case-based Problems for Chemistry Lectures and Assessment

Adviser: Charlie Cox

Susan Boisvert

Major: Biology

Iron Sequestration by Siderophore in Vibrio fischeri: Role in Symbiosis

Adviser: Cheryl Whistler

Jacob Borgeson

Major: Wildlife Management

Evaluation of Protocol and Conditions Associated with Genetic Tagging of Black Bears in Northern New Hampshire

Adviser: Pete Pekins

Jan Boyer

Major: Biology

Density Dependence in Larval Wood Frogs

Adviser: Kimberly Babbitt

Jill Brelsford

Major: Microbiology

A Stressful Lifestyle: The Need for Two Paralogous Stress Response Regulators in the Bacterial Symbiont Vibrio fischeri

Adviser: Cheryl Whistler

Katelyn Cassidy

Major: Microbiology

A Study of the Endosymbiont Bacterial Communities Found within Caulerpa: Spatial Location and Quantification

Advisers: Wayne Fagerberg and Louis Tisa

Robert Citorik

Jong Yu

Major: Microbiology
Effects of Probiotics and Organic Acids on Toxin Production in Escherichia coli O157:H7

Adviser: Frank Rodgers

Lena Collins

Major: Biology
The Effect of the Invasive Seaweed, Caulerpa taxifolia, on Native Species Interactions in St. George's Basin, Australia

Adviser: James Byers

Kathryn Daly

Major: Environmental Conservation Studies
Case Studies in Sustainable Agriculture: How Small Farms Can Be Successful
Adviser: Mimi Becker

Michelle Desrosiers

Major: Biology
Distribution and Abundance of Early Successional Shrubland Birds in Powerline Rights-of-way
Adviser: James Taylor

Nicole DiManno

Major: Zoology
The Plight of Vernal Pool Amphibians
Adviser: Kimberly Babbitt

Katelyn Dolan

Major: Environmental Conservation Studies
Pan-Arctic Temperatization: A Preliminary Study of Future Climate Impacts on Agriculture Opportunities in the Pan-Arctic Drainage System
Advisers: Charles Vorosmarty and Richard Lammers

Dustin Elwood

Major: Biochemistry and Molecular Biology
Autophagy Versus Growth of Sea Urchin Nutritive Phagocytes—Differential Control by a Complex of Proteins
Adviser: Charles Walker

Maire Folan

Major: Biology
The Effect of Flame Retardants on a Biochemical Marker for Obesity
Adviser: Gale Carey

Jennifer Forcina

Major: Medical Laboratory Science
Interactions in Neutrophils Between Bcl-2 Family of Proteins and Stx-2 Produced by Escherichia coli O157:H7
Adviser: Frank Rodgers

Loreen Fournier

Major: Biochemistry and Molecular Biology
Mechanism of Estrogen Receptor- α and Her2 Heterodimerization in Human Breast Carcinoma Cells
Adviser: Andrew Laudano

Adam Gourley

Major: Environmental and Resource Economics
Optimizing the 4000 Footers
Advisers: John Halstead and Doug Morris

Caitlin Hamer

Major: Biology
Local Variation and Trait-mediated Indirect Interactions of Nucella lapillus
Adviser: James Byers

Cheryl Harary

Major: Zoology
In Vitro Analysis of Bluefin Tuna Stomach Content
Advisers: Molly Lutcavage and John Logan (graduate student)

Stephen Hennigar

Major: Nutritional Sciences
The Potential Link Between the Exposure to Environmental Pollutants and Preference for Sweet-Tasting Fluids and Obesity in Rats
Adviser: Anthony Tagliaferro

Ariel Hudson

Major: Animal Sciences
Role of Cytokeratin 8/18 Intermediate Filaments in the Bovine Corpus Luteum: Protection Against Fas Ligand-induced Apoptosis?
Adviser: David Townson

Alison Hudson

Major: Animal Sciences
Effect of Prostaglandin F2 α on Tissue Inhibitors of Matrix Metalloproteinase Expression in the Bovine Corpus Luteum
Adviser: Paul Tsang

Kara Judson

Major: Biology
Examination of Fas Aggregation on Bovine Luteal Cells: Influences of Cytokeratin 8/18 (CK8/18) Intermediate Filaments
Adviser: David Townson

Alisha Kennell

Major: Zoology
Spatial Learning Cues and Acquisition Time in Two Rodent Species Occupying Different Habitats (Microtus pennsylvanicus and Peromyscus leucopus)
Adviser: Michelle Scott

Tye Kindinger

Major: Zoology
Evolutionary Adaptations of Daphnia pulex in Peripheral Rock Pools on the Isles of Shoals, Maine: Effects of Salt Concentration and Ultraviolet Radiation
Adviser: James Haney

Tye Kindinger

Major: Zoology
Effects of Habitat Diversity on Catch per Unit Effort of Chelonia mydas and Eretmochelys imbricata Populations in South Caicos, Turks and Caicos Islands, British West Indies
Adviser: James Haney

Ginny King

Major: Nutritional Sciences
Bone Health of the College-age Population
Adviser: Jesse Morrell

Elisabeth Kispert

Major: Biochemistry and Molecular Biology
Sources of Knowledge and Attitudes Toward Human Papillomavirus (HPV) Vaccine Among Female College Students at the University of New Hampshire
Advisers: Rosemary Caron and Robert McGrath

Avery Krein

Major: Animal Sciences

Sensory Cues that Initiate Conspecific Aggression in Male Red-backed Salamanders (Plethodon cinereus)

Adviser: Michelle Scott

Angela Kuehn (Microbiology)

Stephen Perros (Biochemistry and Molecular Biology)

Katie Szymanska (Microbiology)
The Role of Evolutionary History in Adaptation to New Environments: Experimental Evolution of the Burkholderia cenocepacia Complex

Advisers: Vaughn Cooper and Crystal Ellis (graduate student)

Amanda LaVoie

Major: Biology

The Effect of Human Land Use Practices on the Wildlife Dispersal Area in Southern Mbirikani Group Ranch, Kenya

Adviser: Moses Okello (Center for Wildlife Management, School for Field Studies, Kenya)

Monique Lessard

Major: Biochemistry and Molecular Biology

Estrogen Receptor-a Blocker

Adviser: Andrew Laudano

Keith Morley (Biochemistry and Molecular Biology)

Charles Traverse (Microbiology)

Beyond Darwin: Gaining Insight into Mutational Effects through the Removal of Natural Selection

Adviser: Vaughn Cooper

Benjamin Orcheski

Major: Biochemistry and Molecular Biology

Towards the Determination of Sex Expression in Strawberry

Adviser: Thomas Davis

Nicholas Perros

Major: Biochemistry and Molecular Biology

The Regulation of Phosphodiesterase-6 by Glutamic Acid-Rich Protein-2

Adviser: Rick Cote

Holli Pinard

Major: Animal Sciences

Calf Starter Chemical and Physical Characteristics as They Relate to Overall Performance

Adviser: Peter Erickson

Stephan Pirnie

Major: Biology

Introduction of Phytochelatase: Creating a Phytoremediator

Adviser: Subhash Minocha

Kristen Rauwerdink

Major: Biochemistry and Molecular Biology

Formation and Study of [60] Fullerene Nanowhiskers and Nanotubes

Adviser: Glen Miller

Brian Schuster

Major: Microbiology

You Can Teach an Old Dog New Tricks: Revitalizing Penicillin Enrichment for Mutant Generation

Adviser: Cheryl Whistler

Gwen Stewart

Major: Nutritional Sciences

Visual and Biochemical Assessment of the Color Change in Egg Yolk Following Lutein and Zeaxanthin Supplements

Adviser: Joanne Curran-Celentano

Joy Stronk

Major: Biology

Effects of Depth and Salinity on the Behavior of the Horseshoe Crab, Limulus polyphemus

Adviser: Winsor Watson

MacKenzie Stuart

Major: Tourism Planning and Development

Identification of Potential Job Linkages Between "American Citizen Skill-Groups" and Businesses Currently Engaged in Domestic and International Outsourcing

Adviser: Lyndon Goodridge

Paul Sweeney

Major: Biochemistry and Molecular Biology

Positional Cloning of the Hydroxyurea-Sensitive hus2 Mutant in Arabidopsis thaliana

Adviser: Kevin Culligan

Frederick Ta

Major: Biology

Use of the G-I-G Model as a Basis for Improving Student Problem Solving in the Chemistry Classroom

Adviser: Charlie Cox

Derek Thibault

Major: Biochemistry and Molecular Biology

Isolation of Arabidopsis thaliana Palmitoyltransferase Mutants

Advisers: Aaron Argyros and Estelle Hrabak

Jennifer Towle

Major: Biochemistry and Molecular Biology

Bio-adhesion: Search for Vitronectin in Caulerpa

Adviser: Wayne Fagerberg

Heather Tucker

Major: Nutritional Sciences

The Maasai-Elephant Conflict

Adviser: Andrew Conroy

Chelsea Vario

Major: Nutritional Sciences

Chronic Nitrogen Additions Affect Aboveground Sporocarp Diversity in Hardwood Stand

Adviser: Serita Frey

Marjorie Wainwright

Major: Nutritional Sciences

Long-term Exposure to Flame Retardants and Insulin Sensitivity of Fat Cells

Adviser: Gale Carey

Jennifer Walsh

Major: Biology

Identification of Sharp-tailed Sparrow Species Using Genetic Techniques

Adviser: Adrienne Kovach

Student Composers' Concert

SATURDAY, APRIL 28
8 PM

Bratton Recital Hall,
Paul Creative Arts Center

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

Diane Anderson

Major: Music Studies (Composition)
Wind Trio
Adviser: Lori Dobbins

Adam Davila

Major: Music
The Dirty Rag
Adviser: Lori Dobbins

Andrew Greene

Major: Music Performance
Strength and Beauty
Adviser: Michael Annicchiarico

Ben Mafera

Major: Music Education
5 Limericks of Edward Lear
Adviser: Michael Annicchiarico

John Mehrmann

Major: Music Performance
Music for Hands, Marimbas, and Vibraphone (2006); *Variations on a Theme in D Minor* (2006); *Music Keyboards and Percussion* (2007)
Advisers: Chris Kies and Lori Dobbins

Timothy Miles

Major: Music
Two Songs and The Winter's Nights
Adviser: Michael Annicchiarico

Scott Thibodeau

Major: Music Education
Quintet I
Adviser: Andrew Boysen

Mary Louise Fernald Nursing Research Symposium

WEDNESDAY, MAY 2
8 AM–2:30 PM

Memorial Union Building,
Strafford Room

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

Lia Barros

Major: Nursing
The College Athlete's Perception of the Athlete's Susceptibility to Alcohol Use
Advisers: Pam DiNapoli and Carol Williams-Barnard

Rebecca Blaine

Major: Nursing
Young Men's Attitudes Towards Breastfeeding
Advisers: Gene Harkless and Carol Williams-Barnard

Lisa Landry

Major: Nursing
The Experience of Childbirth in China: A Direct Observational Study
Advisers: Gene Harkless and Carol Williams-Barnard

Lindsay Martel

Major: Nursing
The Challenges and Rewards of Working as a Direct Care Provider in the United States and Guatemala
Advisers: Joyce Cappiello and Carol Williams-Barnard

Caitlin Mussey

Major: Nursing
The Lived Experience of an Unplanned Cesarean Section
Advisers: Lynette Ament and Carol Williams-Barnard

Chemistry Department Poster Exhibition

FRIDAY, MAY 4
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.

Matthew Buchanan

Major: Chemistry
Adviser: Charles Zercher

Hee Yeon Cho

Major: Chemistry
Graphite-Sensitized Microwave Flash Pyrolysis
Adviser: Richard Johnson

Michael Dunn

Major: Chemistry
Modifications of Tripodal Ligands Based on the TAMEPYR and TACHPYR Framework
Adviser: Roy Planalp

Michelle Garnsey

Major: Chemistry
Hydrogenation of Single Walled Nano Tubes
Adviser: Glen Miller

Allison Greene

Major: Chemistry
Fragmentation Mechanisms of Carbohydrates in ESI Mass Spectrometry
Adviser: Richard Johnson

Sarah Huckins

Major: Chemistry
Structural Analysis of Glycosphingolipids
Adviser: Steven Levery

Jeffrey Kirkland

Major: Chemistry
The Enhancement of Ozone Chemistry in a General Chemistry Curriculum
Adviser: Christopher Bauer

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

WEDNESDAY, MAY 9
8 AM-2 PM

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.

Star-studded breakfast

EIGHT STARS OF STUDENT RESEARCH represented the University at the UNH Legislative Breakfast in Concord on April 4. An annual spring event, the breakfast brings the New Hampshire General Court 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 biology and history, to nursing, earth science, and beyond.

Many of these students are presenting at this week's Undergraduate Research Conference. Ask them about their experience in Concord.

2007 Legislative Breakfast Presenters

Lisa Bedford '06

Gilmanton, N.H.

The Relationship Between Biological Rhythms in Horseshoe Crabs

Jacob Borgeson '08

Gilford, N.H.

Building a Better Bear Trap? Genetic Tagging of Black Bears in Northern New Hampshire

Michael Howley '08

Salem, N.H.

Laurentide Ice Sheet Recession in Southern New Hampshire

Lisa Landry '07

Bow, N.H.

The Experience of Childbirth in China: A Direct Observational Study

Joseph McGuinness '07

Somersworth, N.H.

Quitting for Life: Group Smoking Cessation

Michelle Mitchell '07

Nashua, N.H.

In Search of the Yankee Farm Girls turned Mill Operatives

Abigail Noyce '07

Newmarket, N.H.

Optical Illusions Based on Motion

David Palange '07

Londonderry, N.H.

Your Loving Sons: American Warfare Through the Eyes of New England Soldiers



URC 2006 Awards of Excellence

Last year, the UNH Undergraduate Research Conference distributed more than \$23,000 in scholarships and grants to student participants for their award-winning work. The following undergraduates received scholarship Awards of Excellence.

Nicholas Adams '06

Jenna Darling '07

The Effects of Norepinephrine and Dopamine in Remediating Selective Attention Deficits

Magdalen Balz '07

Electronic Journal Writing: Communicative Freedom for Adults with Brain Injury

Lisa Bedford '06

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

Andrew Begley '06

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

Michael Borrelli '06

George Clark '08

Morgan O'Neill '09

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

Jeremy Bourgeois '09

Brian Reed '08

Cornucopia Food Basket Project

Jessica Cawley '06

Investigating the Ways the Irish Learn Music

Molly Cooper '06

Bad Girls: Romantic Feminine Rebellion in Renaissance Drama

Scott Crawford '06

Jonathan Oppelaar

FFT Component Project

Emily Demers '06

Female Monster: Eileen Wournos and the Transgressions of Public Sexuality

Emily Duynstee '07

Non-medical Use of Prescription Drugs on College Campuses

Roger Eichorn '06

Theories of Historical Knowledge

Roger Eichorn '06

Philosophy and Common Life: Skeptical Crisis or Dogmatic Crisis?

Sarah Eisenlord '06

The Effects of Warming on Soil Microbial Metabolism

Engineers without Borders

Engineers without Borders Project

Michelle Giguere '06

The Censorship has Sailed: Spanish Media and Democracy

Sarah Grieve '06

Nicole Young '06

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

Jasmine L. Harris

Shawn M. Laplante

Hannah R. Onorowski

Film: Assimilation

Kristin Harris '06

Financing the Evolutionary Machine: Capitalist Ideology and Social Darwinism in Zola's The Ladies Paradise and Dreiser's Sister Carrie

Courtney Hazleton '06

The Preservation of Tradition in an Increasingly Globalized World

Andre Hoechl '06

Integration and Cultural Tension in the German Turkish Community

Mark Joseph '06

Can Kant Accommodate Supererogation?

Gina Lalli '06

Highlighting the Margins: Empowerment and Engagement I

Gina Lalli '06

Gender Attitudes Among Men and Women at UNH

Kraig Lamper '06

Fluxus as Fragmentation and Continuity

Nora Larkin '06

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

Meghann McCluskey '06

Politics and Film: A Focus on Freedom Political

Heather Moulton '07

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

Jonathan Nguyen '06

Fracture Testing for the Evaluation of Self-healing Composites

Catherine E. Overson '06

Perinatal Loss: Its Challenges to Nurses and Educators

Brenton Paoella '06

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

Stephan Pirnie '06

Evan Jordan '06

Harnessing the power of an invasive species: creating a bioremediator out of purple loosestrife

Sarah Raymond '07

Crime Deception and the Misleading of the American Public

Matthew Reno '06

Regional Stagnation: The Undermodernization of Southern Spain

Jessica J. Santos '06

Senior Seminar Project: Internship at BAE Systems

Mark Santos '06

Transnasal Delivery of a GnRH Analog in Miniature Swine

Satya Sardonicus '07

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

Alice Sheehan '06

CAFTA: An Intelligent Choice?

Michael Simmons '06

Interactive Computer Demonstration of Geographic Information Systems Software (ArcView) and NH's GRANIT Database

Katie Smith '06

A Nuclear Iran?

Nathan Smith '06

When Do Terrorists Attack?

Courtney Strait '06

Highlighting the Margins: Empowerment and Engagement II

Mary Veronica Vandaloski '06

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

Andrew VanHoogenstyn '06

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

Kelly Vogel '06

Reproductive Rights for Chinese Women

Ashley Ward '07

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

Anna Weaver '06

EPR Spectroscopy for the Forensic Analysis of Glass

Kristen Woodruff '06

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

These awards were made possible by the generous sponsorship of the following University offices and departments: The Office of the Vice President for Student and Academic Services, the Hamel 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 UNH Parents Association, the Environmental Research Group, and the Center for International Education.

Committed to undergraduate research

ENGAGEMENT IN RESEARCH: For those students who get involved, it's the defining factor of a UNH undergraduate education. And it is exactly what you will see at this week's URC. The conference is an annual celebration of the remarkable research and learning between motivated undergraduates and active faculty researchers here at UNH.

This student-faculty collaboration is the backbone of the UNH research 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. In UNH theatres, studios, and recital halls, our creative arts students explore the intellectual processes behind their works.

Nourishing these undergraduate-faculty relationships is UNH's **Hamel Center for Undergraduate Research**, which gives students 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 collaborative research projects with faculty mentors, and to learn the key elements of any research project—from proposal and budget to research and presentation of results to peers. Many of the students presenting here this week conducted their research using UROP and IROP grants.

The **McNair Graduate Opportunity Program** also fosters student-faculty collaboration. A graduate school preparation program, McNair includes an intensive research component. Students may design a research project, receive funds to implement the project, take a research methods course, participate in writing skills workshops, and have the opportunity to present their findings at the UNH McNair Program Summer Research Symposium, among other activities.

In addition, the **Research & Discover Program** offers a series of two summer internships to eligible students—the first summer at UNH, the second at NASA Goddard Space Flight Center. Research and Discover interns work alongside environmental scientists on the groundbreaking discoveries underway at the UNH Institute for the Study of Earth, Oceans, and Space, such as investigating the effects of human activities on the Earth, including the causes and effects of global climate change and deforestation; studying dynamic processes in the Earth, oceans, and atmosphere using remote sensing, GIS, computer models, and other state-of-the-art tools; and exploring chemical, physical, and biological oceanography.

How to get involved in undergraduate research at UNH:

- **talk to a favorite professor, faculty adviser, or teaching assistant;**
- **visit the UNH Hamel Center for Undergraduate Research, which sponsors student research projects at home and abroad;**
- **pay attention to department bulletin boards and Web sites, which often post job openings in UNH labs or departments where students can work on actual, ongoing research projects;**
- **take a research-intensive course, such as INCO 590 "Student Research Experience."**

The students you will meet at URC '07 are exploring police corruption in Bangkok, studying the effects of flame retardants on obesity, developing wind turbines and biodiesel fuel, and composing their own music. This direct participation in meaningful research is one of the unique characteristics of a UNH education, where students, together with faculty, push back the frontiers of knowledge.

***Inquiry* journal of undergraduate research**

THE URC is but one means for students to share their findings. Some of the works you see here today might become the basis of a University 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 third volume, now online, features works on Slovakian communism and democracy, the Latin American tradition of *Quinceañera*, and the American toad.

Last summer, using a grant from the UNH International Research Opportunities Program (IROP), senior Laura Louise Plummer spent nine weeks in Puerto Rico studying the custom of *Quinceañera*. Here's an excerpt from her *Inquiry* article "Quince Años: The Transition to Womanhood in Puerto Rican Culture."

In some Spanish-speaking countries in the Americas, a girl's fifteenth birthday, called the Quinceañera, is a sacred and time-honored rite of passage. The word "Quinceañera" is made up of the Spanish words for "fifteen" and "years," and can refer to both the celebration and the woman turning 15. The Quinceañera has roots in ancient indigenous ceremonies as well as the European debutante ball, which was introduced during the Spanish colonization of Latin America in the 1500s. Every country (and indeed every individual girl) celebrates the Quinceañera uniquely. What remains constant across cultures, however, is that the Quinceañera is meant to represent a girl's transition to womanhood.

Read more at www.unh.edu/inquiryjournal.

Links to research opportunities

CENTERS AND INSTITUTES AT UNH
<http://www.unh.edu/research/centers>

CENTER FOR INTERNATIONAL EDUCATION
www.unh.edu/cie

HAMEL CENTER FOR UNDERGRADUATE RESEARCH
www.unh.edu/undergrad-research

McNAIR GRADUATE OPPORTUNITY PROGRAM
www.unh.edu/mcnair

OUTREACH AND RESEARCH OPPORTUNITIES
www.unh.edu/outreach/opportunities.html

RESEARCH & DISCOVER SUMMER INTERNSHIP PROGRAM
IN EARTH Sciences
www.eos.sr.unh.edu/ResearchAndDiscover/

UNIVERSITY HONORS PROGRAM
www.unh.edu/honors-program



Reaping the benefits of research

Former student researcher brings UNH experience to career

BETH (GAGNON) DALY '02 admits she's ambitious. One need only glance at her curriculum vitae for proof. Three degrees, six awards, five published reports, and a hefty dose of public service commitments, memberships, and work experience. And she graduated only five years ago.

Daly is a communicable disease epidemiologist at New Hampshire's Division of Public Health Services in Concord. She manages the investigation and surveillance of food-borne disease outbreaks, such as salmonella.

When the bagged spinach debacle broke last year, she tracked for cases in New Hampshire, conducting interviews with patients whose symptoms, as reported by their doctors, pointed to food-borne illness.

Although it was Daly's strong interest in science that first brought her toward disease investigation, she points out the sociological, psychological, behavioral health, biological, and economic factors in the public health realm. "What I like about working in this field is that it's so multidisciplinary."

At UNH, Daly received both a B.S. in zoology and a B.A. in English. She first became interested in epidemiology while taking a class with Jeffrey Salloway, professor of health management and policy at UNH. She indulged that interest in Africa, studying community perceptions, control activities, and health-seeking

behavior for malaria in Tanzania, a project Daly, herself, created and executed using a grant from UNH's Hamel Center for Undergraduate Research, which funds student research projects. After nine weeks in Dar es Salaam, she went on to report her research findings at the National Undergraduate Research Conference in Washington, D.C., which she describes as "good exposure."

The experience helped Daly nail down her interests. "I was sending away for graduate school materials while in Tanzania," she says. Ultimately, Daly decided on Emory University's master of public health program. There, she found herself ahead of her classmates. "Many had studied abroad, but none had conducted research abroad at the undergraduate level," she says. "I was lucky that UNH had a program for undergraduates. Most people don't have that opportunity until graduate school."

ELIZABETH GAGNON DALY '02

*Epidemiologist, Acting Chief
of Communicable Disease
Surveillance Section*

N.H. Division of Public Health Services



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 folks and thank them for helping make URC '07 happen.

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Wayne Fagerburg, 16th Annual COLSA URC
Marianne Fortescue, UNH Office of Community Service Partnerships
Cynthia Giguere, Thompson School Undergraduate Student Showcase
Elizabeth Hageman, Honors English Undergraduate Conference
Kate Hanson, Thompson School Community Leadership Program
David Kaye, The Naked Arts: Creativity Exposed!
Jennifer Moses and Catherine Mazur, Senior B.A. and B.F.A. Exhibition Preview Reception
Cynthia Nizzari-McClain, WSBE's Paul J. Holloway Business Plan Competition
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Cindi Rohwer, Chemistry Department Poster Exhibition
Lucy Salyer, History Department URC
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