“Presenting my poster at the URC showed me how much I had learned throughout the research process.”

“The look of satisfaction and accomplishment on my students’ faces is worth its weight in gold.”
A welcome to participants and attendees

Welcome to our springtime celebration of hands-on learning at the University of New Hampshire. Now in its ninth year, the UNH Undergraduate Research Conference (URC) highlights the outstanding research, scholarship, and creative activities of our students and their faculty mentors. We take pride in—and learn from—their accomplishments.

What began in 2000 with just a handful of participants and only eight events has blossomed into an annual tradition that puts UNH students in the spotlight. Our conference is now among the largest and most diverse in the nation. More than 800 students will present their findings at dozens of events across both the Durham and Manchester campuses, and represent academic achievements in every college and school.

This extraordinary learning experience helps students build the necessary knowledge, skills, and confidence to pursue graduate studies and/or meaningful careers. The URC is a shining example of our students’ success and the discovery-based education for which we are known.

Whether your visit includes a poster session, symposium, art exhibit, or creative presentation, we are confident that you will be impressed with these participants’ knowledge and understanding.

Thank you for your interest in and support of our remarkable students.

Sincerely,

Mark W. Huddleston, President

T. Taylor Eighmy, Interim Vice President for Research
The Earth’s climate is changing faster than scientists have predicted. The impact of these changes is dramatic. How can we solve the problem?

A Faustian Bargain—Yet Grounded in Science

The UNH Undergraduate Research Conference and Office for the Vice President of Research, in conjunction with the MUB Current Issues Lecture Series, are proud to present an evening with

Berrien Moore III

Wednesday, April 23, 2008
7:30 P.M.
The Strafford Room, Memorial Union Building (MUB)
University of New Hampshire, Durham

Berrien Moore has been a prominent participant in both the scientific investigation and policymaking aspects of climate change for nearly 30 years. From 1987 through 2007, he was the founding director of the renowned Institute for the Study of Earth, Oceans, and Space (EOS) at the University of New Hampshire. Recently, he was among a worldwide network of scientists awarded the Nobel Peace Prize for its work with the Intergovernmental Panel on Climate Change (IPCC), which shared the prize with former Vice President Al Gore.

Tickets required. Reserve free tickets at www.unh.edu/urc or call 603-862-1997. Doors open at 7:00 P.M. Parking is available in B Lot.

For accessibility accommodation requests, contact Lynne Cooper at 603-862-1997. For TTY calls only, call 800-relay-nh.
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<tr>
<td>10 AM–4 PM</td>
<td>Graduate Research Conference (GRC)</td>
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<td>6–8 PM</td>
<td>2008 Senior B.A., B.F.A., and M.F.A. Exhibition and Preview Reception</td>
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<td>The Art Gallery, Paul Creative Arts Center</td>
<td>(Exhibition runs April 19–May 24, 2008)</td>
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<td>8 PM</td>
<td>Student Composers’ Concert</td>
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<td>Bratton Recital Hall, Paul Creative Arts Center</td>
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<td><strong>Tuesday, April 22</strong></td>
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<td>11 AM–1 PM</td>
<td>UNH Manchester URC—Oral Presentations</td>
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<tr>
<td><strong>Wednesday, April 23</strong></td>
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<td>10:30 AM–noon</td>
<td>Seacoast Reads Exhibition</td>
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<td>10:30 AM–noon</td>
<td>Thompson School Community Leadership Program</td>
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<td>10:30 AM–noon</td>
<td>UNH Office of Community Service Partnerships</td>
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<tr>
<td>Noon–2 PM</td>
<td>The Naked Arts—Creativity Exposed (Act I)</td>
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<td>The Art Gallery, Paul Creative Arts Center</td>
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<tr>
<td>2–5 PM</td>
<td>Interdisciplinary Science and Engineering Symposium (ISE)</td>
<td></td>
<td>Kingsbury Hall</td>
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<tr>
<td>4–6 PM</td>
<td>UNH Manchester URC—Poster Presentations</td>
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<td>UNHM Auditorium</td>
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<td>7:30 PM</td>
<td>The URC, in partnership with the MUB Current Issues Lecture Series, presents an evening with Berrien Moore III</td>
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<td>MUB, Strafford Room</td>
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<td>8 PM</td>
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<td>Bratton Recital Hall, Paul Creative Arts Center</td>
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<tr>
<td><strong>Thursday, April 24</strong></td>
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<tr>
<td>11 AM–1 PM</td>
<td>UNH Manchester URC—Cinema Day</td>
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<td>UNHM Auditorium</td>
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<tr>
<td>12:30–2 PM</td>
<td>The Naked Arts—Creativity Exposed (Act II)</td>
<td></td>
<td>Hennessy Theatre, Paul Creative Arts Center</td>
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<tr>
<td>12:40–2 PM</td>
<td>History Department Undergraduate Presentations</td>
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<td>MUB, Rooms 302 and 336</td>
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<td><strong>Friday, April 25</strong></td>
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<tr>
<td>9 AM</td>
<td>Breakfast with UNH President</td>
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<td>MUB, Granite State Room</td>
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<tr>
<td>9:30 AM–2:30 PM</td>
<td>Parents Association Undergraduate Research Symposium</td>
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<td>MUB, Granite State Room, assigned rooms</td>
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<tr>
<td>12:15–1 PM</td>
<td>The Naked Arts—Creativity Exposed (Act III)</td>
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<td>MUB, Strafford Room</td>
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<td>1–4 PM</td>
<td>College of Health and Human Services Grimes Award Competition</td>
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<td>Pettee Hall, G-10</td>
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<td>1–5 PM</td>
<td>Psychology Department George M. Haslerud Undergraduate Research Conference</td>
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<td>Conant Hall, Room 101</td>
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<td>4–8:30 PM</td>
<td>Philosophy Undergraduate Research Conference</td>
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<td>MUB, Rooms 338/340</td>
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<td><strong>Saturday, April 26</strong></td>
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<tr>
<td>7:45 AM–2 PM</td>
<td>17th Annual COLSA Undergraduate Research Conference</td>
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<td>The New England Center</td>
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<td><strong>ADDITIONAL EVENTS</strong></td>
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<td><strong>Wednesday, May 7</strong></td>
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<tr>
<td>8 AM–3:30 PM</td>
<td>Mary Louise Fernald Nursing Research Symposium</td>
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<td><strong>Friday, May 9</strong></td>
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<tr>
<td>2:30–4 PM</td>
<td>Chemistry Department Poster Exhibition</td>
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<td>Parsons Hall, Iddles Wing</td>
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<td><strong>Wednesday, May 14</strong></td>
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Campus Map

BUILDING KEY
1. Paul Creative Arts Center
2. Horton Hall
3. Memorial Union Building (MUB)
4. Kingsbury Hall
5. Hamilton Smith Hall
6. Pettee Hall
7. Conant Hall
8. New England Center
9. Holloway Commons
10. Parsons 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.
Graduate Research Conference (GRC)

Thursday, April 17
10:00 a.m.–4:00 p.m.
Memorial Union Building,
Strafford Room

The Graduate Research Conference is devoted to celebrating the high-quality research being conducted by graduate students at UNH and is designed to showcase research from graduate students in all disciplines. Participants interact with other graduate students and faculty from across campus.

Information on participants will be available at the event.

2008 Senior B.A. & B.F.A.
Exhibition and M.F.A.
Thesis Exhibition (I)
Preview Reception

Friday, April 18
6:00–8:00 p.m.
Exhibition runs April 19–May 24, 2008
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 (and their presentation mediums):
Rebecca Davis, painting
Jennifer Lonergan, digital photography
Jessica Paterson, digital photography
Amanda Roseberry, furniture
Rachel Stern, ink on paper

B.F.A. degree candidates:
Lindsay Bezich, painting
Shawn Burke, drawing/printmaking
Kimberly DeCicco, painting
Alissa Feller, painting
Lily Finnigan-Allen, painting
Sean Hurley, printmaking
Lauri Lannan, photography
Cailin Mateleska, photography
K. Lee Mock, painting
Colleen Murphy, sculpture
Lindsay Wraga, painting

Student Composers’ Concert

Friday, April 18
8:00 p.m.
Bratton Recital Hall,
Paul Creative Arts Center

The UNH Student Composers’ Concert is an annual event that features the music of undergraduate and graduate students of the Music Department. The music is newly composed, and is almost exclusively performed by fellow music students.

Eric Brown, Music Theory
Scott Thibodeau, Music Education
Ben Tibbetts, Music Theory
Nolan Bonvouloir, Performance
Luke Miller, Music Education
Anders Benson, Pre-Teaching
James Wickham, Pre-Teaching
David Orr, Performance
Meghan McCrillis, Music Education
Mike D’Errico, Music Education
Stephen Bobick (non student)
Jeff Heim, Music Theory
Diane Anderson, Music Studies

UNH Manchester Undergraduate Research Conference

Oral Presentations

Tuesday, April 22
11:00 a.m.–1:00 p.m.
UNHM Auditorium

Oral Presentations are formal scholarly lectures and/or multimedia presentations reflecting students’ research interests.

Wendy Borrun
History
Birmingham 1963: The Struggle for Civil Rights
Adviser: John Resch

Aaron Boucher
Humanities
A Chorus of Waves: Exploring The Nature of Identity as Expressed in the Works and Literary Style of Virginia Woolf
Adviser: Terry Savage

Michael Brunelle
History
The Lynching of Emmett Till: Prejudice, Injustice, and the Civil Rights Movement
Adviser: John Resch

Darlene Delano
History
African-American Portrayals in Musical Theatre: 1920’s–1930’s
Adviser: Robert Macieski

Kirsten Hildonen
History
Film Exhibition in Manchester, N.H.: Movies as Leisure for an Industrial Working Class
Adviser: Jeffrey Klenotic
Seacoast Reads Exhibition

Wednesday, April 23
10:30 a.m.–Noon
Memorial Union Building,
Rooms 334/336

The Seacoast Reads exhibition displays the work of UNH student volunteers who tutor young children in elementary schools and after-school programs in literacy. Since 1998 almost one thousand UNH students have worked through Seacoast Reads to tutor a like number of children. Sponsored by the Graduate Program in Reading and housed in the Department of Education, Seacoast Reads draws students from across the University and represents one of the largest service and outreach organizations on campus.

Thompson School Community Leadership Program

Portfolio, Research, and Independent Study Presentations

Wednesday, April 23
10:30 a.m.–Noon
Memorial Union Building,
Rooms 334/336

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. This exhibition displays students’ leadership portfolios and highlights significant community projects and partnerships.

Meghan Marcus
Communication Arts
Suggestion of Roles in Gay Advertising: A Modern Application of Erving Goffman
Adviser: Jeffrey Klenotic

S. Daniel Mattingly
Politics and Society
Nauru, a Micro-state with a Macro Problem
Adviser: Michael Contarino

Devon Mercer
History and English
The Feminist Mystique—Sociopolitical Impact of Second-Wave Feminism
Adviser: John Resch

Maria Morales
Psychology
Dental Healthcare of New Hampshire Seniors
Adviser: Alison Paglia

James O’Neill
Humanities and Communication Arts
Dionysian Influence in the Art of Ancient Greece
Adviser: Terry Savage

Nicole Ponti
Communication Arts
How Change is Implemented At All Levels in Public Schools
Adviser: Paul Loranger

Katy St. George
Psychology
Barriers in Accessing Community Resources for Low Income Mothers
Adviser: Alison Paglia

Jesse Burdwood
Community Leadership
A Day in the Life of Someone with Developmental Disabilities
Adviser: Kate Hanson

Cheryl Coffin
Community Leadership
Seymour Osman Community Center Penny Sale
Advisers: Timothy Barretto, Kate Hanson

Sarah Curley
Community Leadership
Fund Raising Campaign for E.P.O.N.A
Advisers: Timothy Barretto, Kate Hanson

Daniel DiPalma
Communication
Event Promotion at United Way of the Greater Seacoast
Adviser: Kate Hanson

Nicole Finitsis
Community Leadership
Planning An Effective Service Project
Adviser: Kate Hanson

Julian Linero
Community Leadership
Portfolio Presentation
Adviser: Timothy Barretto

Kyle McAdam
Community Leadership
New Hampshire Sierra Club
Adviser: Kate Hanson

Varalin Newcomer
Community Leadership
The Cornucopia Food Pantry Project
Advisers: Timothy Barretto, Kate Hanson

Katy St. George
Psychology
Barriers in Accessing Community Resources for Low Income Mothers
Adviser: Alison Paglia

Kelley Wojcik
Community Leadership
Senior Portfolio: Penny Sale
Adviser: Timothy Barretto
Grant Writing for Community-Based Organizations

Amanda Caros
Equine Sciences
Grant Proposal for Cross Roads House

Cheryl Coffin
Community Service and Leadership
Grant Proposal for Seymour Osman
Community Center

Emily Cousineau
Environmental Affairs
Grant Proposal for Cochecho Valley Humane Society

Sarah Curley
Community Leadership
Grant Proposal for E.P.O.N.A.

Nicole Finitis
Community Leadership
Grant Proposal for Cross Roads House

Krista Grava
Community Leadership
Grant Proposal for Seymour Osman
Community Center

Alex Hammond
Nondegree student
Grant Proposal for the Dover Teen Center

Sharon Harvey
Nondegree student
Grant Proposal for the Dover Teen Center

Marisa Imon
Community Development
Grant Proposal for the Dover Teen Center

Mandy Lancaster
Social Work
Grant Proposal for Cross Roads House

Julian Linero
Community Service and Leadership
Grant Proposal for E.P.O.N.A.

Daniela Matteoni
Applied Animal Science
Grant Proposal for Cochecho Valley Humane Society

Varalin Newcomer
Community Service and Leadership
Grant Proposal for E.P.O.N.A.

Kelley Whitney
Social Work
Grant Proposal for Cochecho Valley Humane Society

Kelley Wojcik
Community Leadership
Grant Proposal for Seymour Osman
Community Center
Adviser: Deb Sugerman

Eva Jacobson
International Affairs and Political Science
University of New Hampshire STAND (Student Anti Genocide Coalition)
Adviser: Alynna Lyon

Elizabeth Joseph
English

Andrew Vincello
Environmental Conservation Studies
The Durham Community Dinners: A Harvest of Local Love
Adviser: Larry Brickner-Wood

Elizabeth Joseph
English

UNH-RENU: Closing the Loop
Adviser: Anne Lawing

Kaitlyn Lewis
Anthropology
Alternative Break Challenge—Kansas City, Missouri
Adviser: Marianne Fortescue

Caleb Morrill-Winter
Mechanical Engineering
UNH Nicaragua Community Action Trip
Adviser: Marianne Fortescue

Gretchen Olson
Genevieve Pearson
Communication Sciences and Disorders
Ahasia: Raising Awareness for First Responders
Adviser: Jeanne O’Sullivan

Michelle Pizzillo
Recreation Management and Policy
Alternative Break Challenge
Adviser: Marianne Fortescue

Grant Writing for Community-Based Organizations

Wednesday, April 23
10:30 a.m.–Noon
Memorial Union Building, Rooms 334/336

This display showcases the work of student service organizations and student groups—ranging from spring break trips to residence hall community partnerships—engaged in community service and service-learning projects throughout the year.

Katie Brym
Theatre
One Night Without a Home
Adviser: Marianne Fortescue

Katie Brym
Theatre
Jennifer Cook
International Affairs
Oxfam Hunger Banquet
Adviser: Marianne Fortescue

Michelle Daigneault
Recreation Management and Policy and Program Administration
Ride for Relay—UNH RMP Recreation Society
Adviser: Joshua Carroll

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Ride for Relay—UNH RMP Recreation Society
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UNH Office of Community Service Partnerships

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Memorial Union Building, Rooms 334/336

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Michelle Daigneault
Recreation Management and Policy and Program Administration
Ride for Relay—UNH RMP Recreation Society
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And the Walls Come Down

For Kate Hanson, associate professor of social science at the Thompson School, the best classrooms are those without walls—where students and faculty can interact with the community and with each other.

Hanson’s philosophy and approach have evolved over time. As an undergraduate, Hanson studied English literature. She planned to enroll in the master’s program in English at UNH, but chose instead to explore her fascination with relationships and “the complexities and possibilities of our interactions with each other,” ultimately earning her M.Ed. in counseling at UNH. “This background,” Hanson explains, “taught me the value of an applied approach to teaching: What difference do the lessons students learn in the classroom make in their lives as they live them now?”

Hanson refined her approach with decades of community work—ranging from being an advocate at a rape crisis center to serving on a local school committee. Ultimately, an interest in teaching and a passion for community service led Hanson and Timothy Barretto, associate professor of communications at the Thompson School, to develop the community leadership (CoLead) program in 2000. Now in its eighth year on the Durham campus and its first year at UNH Manchester, the program is a springboard for some of the University’s most involved, recognized, and successful students.

The only associate degree program of its kind in the country, CoLead is for students who wish to leverage their passion for community activism into rewarding careers. “We developed the CoLead program to fill a void in the community,” Hanson says. “There was no place where students could learn the core leadership skills needed in community organizations: supervising volunteers, facilitating meetings, speaking in public, organizing events, and writing clearly, for example.”

Today, CoLead combines classroom learning and hands-on experience to teach students to work collaboratively or in leadership roles to solve problems and effect social change at local, regional, and national levels. “Our classes are a microcosm of society and our students have a variety of values and beliefs, and one of the first lessons students learn is that each of them is as important as anyone else in the room and as necessary to making the class really work,” says Hanson.

The CoLead experience culminates with a capstone project through which students can share the best practices they’ve developed. The capstone projects and the student portfolios are exhibited at the Undergraduate Research Conference.

While Hanson herself has been recognized with the 2005 Campus Compact of NH President’s Good Steward Award, the 1999 UNH Stephanie Thomas Award for “Promoting Equity and Serving as a Role Model for Women,” the 1999 UNH Distinguished Pink Triangle Award for “commitment to and support of an inclusive community at UNH,” and the 1992 TSAS Outstanding Educator Award, she is especially proud of the 2007 Spirit of New Hampshire Award, which was presented to the CoLead program last year by Governor John Lynch and Volunteer NH! to honor the program’s outstanding contributions to volunteerism in the state.

But CoLead faculty and students aren’t resting on the laurels. The expansion of the program to UNH Manchester will provide a wealth of new opportunities. “UNHM’s urban mission will provide us all with new chances for especially creative application research,” notes Hanson. “And as what we can do in the classroom is extended to communities in the Merrimack Valley and across the state and region, more walls will be moved—or better yet, brought down completely.”
**Whittemore School of Business and Economics**

**Paul J. Holloway Prize**

**University-wide Innovation-to-Market Competition Poster Session**

**Wednesday, April 23, 2008**
**10:30 a.m.–Noon**
**Memorial Union Building, Rooms 330/332**

This competition takes students out of the classroom and into the real world. Students are required to research and prepare strategies for commercializing new products and services, which they present to a panel of industry judges. Prizes are awarded for the most feasible and fundable approaches for starting, acquiring, or expanding a business venture.

- **Ryan Abelli**  
  Business Administration

- **Donald Wyman**  
  Business Administration

- **Peter Krauklin**  
  Mechanical Engineering

- **Patrick Nearing**  
  Civil Engineering

- **Optical Measurement Sensor**  
  Adviser: Erin Bell

- **Timothy Andrews**  
  Mechanical Engineering

- **Steven Robertson**  
  Marketing

- **Eco-Friendly Sleep System—Climate Controlled Sleep System Environment**  
  Adviser: May-Win Thein

- **Meghan Berggren**  
  Amanda Colby  
  Business Administration

- **Team ARGOS—The Unleash: Go Unleash Your Life**  
  Adviser: William Burke

- **Jeremy Blanchard**  
  Mechanical Engineering

- **Naoufal Soulat**  
  Business Administration

- **EnerTrac and EnerSess—Energy Monitoring and Assessment**  
  Adviser: Christopher White

- **Anna Boisvert**  
  International Business and Economics

- **Gregory Richardson**  
  Sebastian Titz  
  Business Administration

- **Glycura-A Catalyst for a Cure**  
  Adviser: A.R. Venkatachalam

- **Ming Cao**  
  Chemical Engineering

- **Novel Superabsorbent from Renewable Resource**  
  Adviser: Yvon Durant

- **Steven Castle**  
  Entrepreneurial Venture Creation

- **Eyo E-Reader**  
  Advisers: William Hassey, Jun Li

- **John Dow**  
  Thandapani Palanichamy

- **Padmabala Venugopal**  
  Business Administration and Entrepreneurial Venture Creation

- **Amit Savant**  
  Business Administration and Finance

- **Energy Portfolio Solutions**  
  Adviser: Robert Gough

- **Stuart Fricke**  
  Mechanical Engineering

- **Project Eisbar**  
  Adviser: Donald Troop, Barkley Sive

- **Matthew Gahm**  
  Entrepreneurial Venture Creation

- **Michael Johnson**  
  Jonathan Yu  
  Finance

- **ViBe Communications**  
  Adviser: Jun Li

- **Hayley Holmes**  
  Alison Hudson

- **Shaun Kellogg**  
  Bradley Martin  
  Business Administration

**Chalk Talk**  
Adviser: Robert Gough

- **Sara Lincoln**  
  Mechanical Engineering

- **Tidal Power Generation In the Piscataqua River**  
  Adviser: M. Robinson Swift

- **Kevin Maher**  
  Kevin Talty

- **Richard Yoblonsky**  
  Business Administration

- **WhoUcall.com**  
  Adviser: Jeffrey Sohl

- **Albert Shattuck**  
  Business Administration

- **John Tansey**  
  Mechanical Engineering and Business Administration

- **Energy Products Intelligent Decision System (EPIDS)**  
  Adviser: Robert Gough

- **Igor Tsentalovich**  
  Russell Wilcox  
  Physics

- **OxyBottle—The Water Bottle and Oxygen System of the Future**  
  Adviser: William Naumes

**The Naked Arts—Creativity Exposed (Act I)**

**Wednesday, April 23**
**Noon–2:00 p.m.**
**The Art Gallery, Paul Creative Arts Center**

This event exposes the inner creative process of artists working in the arts disciplines. Presenters will describe the process, research, and other creative aspects undertaken to bring an artistic creation from initial inspiration to the gallery.

- **Alissa Feller**  
  Art Studio

- **Painting the Constructed Landscape**  
  Adviser: Jennifer Moses
opportunities in science and engineering at UNH. The program will include a poster session, remarks from University leaders, refreshments and an awards ceremony.

Jacob Aho
Alexander Evangelou
Electrical Engineering
Jared Perkins
Mechanical Engineering
InterFACE
Adviser: John LaCourse

Elizabeth Aleo
Melilotus DeBethune
Undeclared
Francis O’Connor
Business Administration
The Transportation Wedge: Buckling Down on CO₂ Emissions.
Adviser: John Aber

Michael Allard
Colin Fischer
Tania Grindrod
Jessica Murray
Kyle Russ
Mechanical Engineering
Ocean Wave Energy
Adviser: Christopher White

Erin Callum (special guest from College of the Albemarle)
General Education
Effects of Stormwater Runoff on Ocean Microorganisms
Adviser: Christopher Perry (College of the Albemarle)

Cyrus Esmaeili
Electrical Engineering
Timothy Andrews
Adam Fitzpatrick
Christopher Storro
Mechanical Engineering
Variable Airfoil Vertical Axis Wind Turbine
Adviser: Barry Fussell

Kyle Avery
Ryan Clay
Joseph Sperry
Matthew Teeden
Civil Engineering
Grommet Creek Bridge Design
Adviser: Kevin Gardner

Justin Baker
Mathematics
A Compton Telescope for Locating and Identifying Radioactive Materials
Adviser: Mark McConnell

Casie Hicks
Psychology
Jaime Baraiolo
Raina Martinec
Steven Zimmerman
Undeclared
Reducing CO₂ Emissions: One Home at a Time
Adviser: John Aber

Yuliya Barushka
Scott Caisse
Gregory Tully
Computer Engineering
Christopher Bickford
Brandon Courcy
Justin Courcy
Michael DiFranco
Adam Karlgren
John Laakso
Aidan McAllister
Eric Mesmer
Mechanical Engineering
UNH Precision Racing—Car 36
Adviser: May-Win Thein

Issam ElAyadi
Jeremy Mizzau
Computer Engineering
Robert Bisson
Chad Everbeck
Brad Gallant
Patrick Maher
Aaron Sexton
Mechanical Engineering
Ducted Wind Turbine
Adviser: Joseph Klewicki

Sean Hurley
Fine Arts
2008 BFA process
Adviser: Jennifer Moses

Cailin Mateleska
Fine Arts
Photographic Portraiture Blurring the Lines Between Posed and Candid Portraits
Adviser: Grant Drumheller

Colleen Murphy
Fine Arts
Art as Growth and Entertainment
Adviser: Jennifer Moses

Colleen Murphy
Jen Ballentine
Ruth Hayden
Lauri Lannan
Kathleen Littleton
Erin Murray
Jessica Simpson
Lindsay Wraga
Fine Arts
An Homage to Feminist Artists
Adviser: Mara Witzling

Lindsay Wraga
Fine Arts
Developing a Series of Paintings
Adviser: Grant Drumheller

Interdisciplinary Science & Engineering Symposium (ISE)

Wednesday, April 23
2:00–5:00 p.m.
Kingsbury Hall

The ISE symposium welcomes and encourages 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. Attendees learn more about research and educational
SARA LINCOLN ’08

Mechanical Engineering
College of Engineering and Physical Sciences
Faculty mentors: Professor Ken Baldwin, Professor M. Robinson Swift

The Tides of Change

With the energy habits of today’s world, our global climate is increasingly affected by contaminants and byproducts created by traditional energy generation methods. Furthermore, an inevitable energy crisis can be foreseen in the near future, with oil prices constantly rising and many researchers predicting that the world’s oil supply will peak within this century.

For our research, we are working as a team to design and test a scaled model of a power-generation system to assess its feasibility. We designed this project specifically for the Piscataqua River in New Hampshire, below the General Sullivan Bridge—home to some of the strongest tidal currents in the United States.

Tidal energy addresses both the problems of climate change and the energy shortage. It creates no byproducts and has minimal impact on the environment. Unlike wind and solar power, which are dependent on changeable weather patterns, tidal power is a continuous and predictable source of energy. It is this characteristic and its large-scale output potential that we believe will eventually give tidal power an edge over its competition.

The work and interest generated now will greatly benefit future endeavors in tidal power projects. This research is the first step to putting the University of New Hampshire at the cutting edge of a new and exciting technology, and paving the way for more technical advancements in the future.

Sara Lincoln presents her team’s research on the promise of tidal power generation at the Interdisciplinary Science and Engineering Symposium (ISE), on Wednesday, April 23rd in Kingsbury Hall.

Group members (pictured): Zachary Annino ’08, Mechanical Engineering; Robert O’Meara Jr. ’08, Mechanical Engineering; Brian Campelia ’08, Mechanical Engineering; Lindsay Coppa ’08, Mechanical Engineering; and Sara Lincoln.

Not pictured: Garrett Partridge, Electrical Engineering; Susan Gagliardi, Mechanical Engineering; and Issam El Ayadi, Electrical Engineering.
Amy Conaty  
Tyler Crowe  
John Heaney  
Civil Engineering
Sean Hartnett  
Cara Hayward  
Jesse Medeiros  
Philip Trzcinski  
Entrepreneurial Venture Creation
Justin Butterfield  
Scott Cloutier  
Owen Friend-Gray  
Zachary Magdol  
Hillary Schmidle  
Jeffrey Senders  
Gregory Sereni  
Environmental Engineering
Retrofitting an Existing Commercial Building to be More Sustainable  
Adviser: Jenna Jambeck

Bryce Carmichael (special guest from Elizabeth City State University)  
Computer Science
Modeling and Simulation of the Seismic TETwalker Concept in the Collection of Antarctica and Greenland Data  
Adviser: Arvin Agah (University of Kansas)

James Gealy  
Zachary Kelton  
Patrick Lee  
David Levine  
Computer Engineering
Jeffrey Kite  
Robert Terry  
Electrical Engineering
Ryan Carney  
Christopher Famolare  
Christopher Hill  
Melissa Minuti  
Mechanical Engineering
UNH WildCatSat Senior Design Project  
Adviser: May-Win Thein

Rena Caron  
Graduate Student
Elizabeth Harvey  
English
Andrew Morehouse  
Environmental Sciences
Modeling the Energy Balance of the UNH Organic Dairy Farm  
Adviser: John Aber

Michael Chervincky  
Frank Gamsby  
Rebecca Haley  
Aaron Lowell  
Christopher Pavelko  
Nicholas Skianes  
Civil Engineering
University of New Hampshire Traffic Study Group  
Adviser: Kevin Gardner

Mathieu Chirat  
Visiting Scientist/Graduate Student
Dmitri Tsentalovich  
Chemical Engineering
pH-Sensitive Polymer Particles for Self-Healing Corrosion Protection  
Adviser: Weihua Ming

George Clark  
Physics
Star Sensor Flight Calibration for the Interstellar Boundary Explorer  
Advisers: Harald Kucharek, Eberhard Moebius

J. Ryan Collins  
Mark Demmitt  
Ryan Kline  
Norman Losh  
Justin Lowe  
Michael McGurl  
Adam Sprague  
John Westover  
Civil Engineering
Brittany Giles-Huntsberger  
Computer Engineering
Exeter Hospital Atrium  
Advisers: Kevin Gardner, Charles Goodspeed

Mark LaGuardia  
Electrical Engineering
Grace Hwang  
Mechanical Engineering and Electrical Engineering
Daniel Cornwell  
Eric Ferreira  
Joseph Frost  
Krista Konrad  
Kevin McLean  
Aarti Patel  
Michael Porba  
Alexander Schindler  
John Schroetter

Wayne St Pierre  
Nathan Tullis  
Marc Vanderhoof  
Mechanical Engineering
S.A.E. Aero Design  
Adviser: John McHugh

Chelsea Cunard  
Environmental Sciences
Gabriel Perkins  
Environmental Sciences and English
Jonathan Horton  
Forestry
Nitrogen Cycling at the UNH Burley Demeritt Organic Dairy Farm, Lee, New Hampshire  
Adviser: John Aber

Peter DiSalvo  
John Michaud  
Reid VanBenthysen  
Mechanical Engineering
Electromagnetic Microforming  
Adviser: Brad Kinsey

Justin Dufresne  
Computer Engineering
Human Energy Generator  
Adviser: John LaCourse

Walter Durack  
Heather Newton  
Craig Shillaber  
Matthew Valle  
Civil Engineering
One Small Bridge at a Time  
Adviser: Kevin Gardner

Jonathan Dyer  
Ryan Fredette  
Brian Oakes  
Thaddeus Piekiewicz  
Torrie Schwab  
Patrick Zoppo  
Civil Engineering
Seven Lakes Snowmobile Club Underpass Study  
Adviser: Kevin Gardner

Jonathan Felch  
Environmental Sciences
Water Resources Assessment of Appledore Island, ME  
Adviser: John Davis
<table>
<thead>
<tr>
<th>Name</th>
<th>Field</th>
<th>Title</th>
<th>Adviser</th>
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<td>Philip Fernandes</td>
<td>Physics</td>
<td>A Morphologic Survey of Black Auroral Forms Within Pulsating Aurora</td>
<td>Marc Lessard</td>
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<tr>
<td>Janine Fraschetti</td>
<td>Earth Sciences</td>
<td>Geochemical Constraints on the Origin of a Shallow Ash Occurrence in the Mahanadi Basin, offshore India</td>
<td>Joel Johnson</td>
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<td>Stuart Fricke</td>
<td>Mechanical Engineering</td>
<td>Formaldehyde Detector</td>
<td>Todd Gross</td>
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<td>Stuart Fricke</td>
<td>Mechanical Engineering</td>
<td>Operation Eisbar: Cryogenic Preconcentrator</td>
<td>Donald Troop</td>
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<td>Michael Gagnon</td>
<td>Chemical Engineering</td>
<td>Biodiesel Production by Enzymatic Transesterification of Waste Oil</td>
<td>Palligarnai Vasudevan</td>
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<td>Michael Gagnon</td>
<td>Chemical Engineering</td>
<td>Determining the Location of Carboxylic Acids in Polymer Nanoparticles</td>
<td>Donald Sundberg, John Tsavalas</td>
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<td>Jordan Goodrich</td>
<td>Environmental Sciences</td>
<td>The Effects of High Ozone Episodes on Temperate Wetland Plants</td>
<td>Ruth Varner</td>
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<td>Danielle Grau</td>
<td>Mechanical Engineering</td>
<td>Senior Ski Project</td>
<td>Todd Gross</td>
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<td>Danah Hashem</td>
<td>Chemical Engineering</td>
<td>Biodiesel Processor Control</td>
<td>Ihab Farag</td>
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<td>Jeffrey Heim</td>
<td>Undeclared</td>
<td>Potential for Solar Energy in the Budget of New Hampshire</td>
<td>John Aber</td>
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<td>Lauren Houlihan</td>
<td>Undeclared</td>
<td>Winds Of Change: Renewable Energy Wedge Proposals for the New Hampshire Energy Task Force</td>
<td>John Aber</td>
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<td>Matthew Jones</td>
<td>Undeclared</td>
<td>Root Biomass and Mycorrhizal Fungi</td>
<td>Erik Hobbie</td>
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<td>Emily Powers</td>
<td>Undeclared</td>
<td>Impact of Radiation on Space Instrumentation</td>
<td>Lynn Kistler</td>
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<td>Muhammad Islam</td>
<td>Electrical Engineering</td>
<td>Active Noise Cancellation Headset</td>
<td>Gordon Kraft</td>
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<td>Benjamin Jackson</td>
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<td>The NASA Magnetospheric MultiScale (MMS) Mission TableSat</td>
<td>May-Win Thein</td>
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<td>Patrick Nearing</td>
<td>Civil Engineering</td>
<td>Development of an Optical Sensor to Remotely Measure Bridge Displacement</td>
<td>Erin Bell, Kevin Gardner</td>
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<td>Jason Ouellette</td>
<td>Biology</td>
<td>Algae Growth in Waste Water and Effluent Solutions</td>
<td>Ihab Farag</td>
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<td>Paul Kyriacopulos</td>
<td>Chemical Engineering</td>
<td>pH-Responsive Particles from Hydrogen-Bonded Multilayer Polymers for Anti-Corrosion Coatings</td>
<td>Weihua Ming</td>
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<td>Benjamin Larson</td>
<td>Mechanical Engineering</td>
<td>Developing a Climate Action Plan for UNH: Analysis, Collaboration, and Implementation</td>
<td>Cameron Wake</td>
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<tr>
<td>Rebecca Lehr</td>
<td>Environmental Sciences</td>
<td>Iron Abundance Profiles in Cooling-flow Clusters: A Fossil Record of Past AGN-driven Convection?</td>
<td>David Gress</td>
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<td>Gary Lemay</td>
<td>Civil Engineering</td>
<td>Wednesday Hill Brook Temperature Study</td>
<td>Jennifer Jacobs</td>
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<td>Gary Lemay</td>
<td>Civil Engineering</td>
<td>UNH ASCE Concrete Canoe</td>
<td>M. Robinson Swift</td>
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<td>Sara Lincoln</td>
<td>Mechanical Engineering</td>
<td>Tidal Power Generation</td>
<td>Benjamin Chandran</td>
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<td>Brian Lynch</td>
<td>Physics</td>
<td>Whale Pinger Receiver Mount for Rigid-Hulled Inflatable Boat</td>
<td>Thomas Weber</td>
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<td>Michael Martinelli</td>
<td>Mechanical Engineering</td>
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<td>Fernando Vazquez</td>
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<td>Laura Woodbury</td>
<td>Civil Engineering</td>
<td>Wednesday Hill Brook Temperature Study</td>
<td>Jennifer Jacobs</td>
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</tbody>
</table>
Samuel Meehan
Physics
Study of Inner Detection System in CLAS
Collaboration and Simulation of Silicon Vertex Trackers
Adviser: Maurik Holtrop

Andrew Middleton
Environmental Conservation Studies

Luke Teal
Chemical Engineering
The Effect of Nutrient Solution on Algae Lipid Content
Adviser: Ihab Farag

Tuyen Nguyen
Physics
Integral Analysis of a 2.22MeV Source Candidate
Adviser: Mark McConnell

Morgan O’Neill
Physics
Using the Moon to Provide Accurate Pointing for the Interstellar Boundary Explorer (IBEX) Star Sensor
Adviser: Eberhard Moebius

Brian Patenaude
Physics and Mathematics

Seth Quarrier
Physics
AIR STM Using Custom Electronics.
Adviser: Karsten Pohl

Jennifer Pollock
Chemistry
The Effects of Microwave Radiation in the Reduction of Acenes
Adviser: Glen Miller

Christopher Rappa
Computer Engineering

Daniel Theroux
Electrical Engineering
Rappa-Theroux Robotics Robotic Sentry
Adviser: Gordon Kraft

Corinne Sadowksi
Chemistry
Diastereoselective Control Applied to the Tandem Chain Extension Methodology of Alpha-Carboxyester Imides and Bis-Imide Precursors
Adviser: Charles Zercher

Diana Saly
Mathematics and Philosophy
A Dynamical Systems Approach to Stability Tracking of Treadmill Running
Adviser: Kevin Short

Craig Shillaber
Matthew Valle
Civil Engineering
Building Bridges: The Tau Beta Pi K-12 Initiative
Adviser: Erin Bell

David Sodaitis
Physics
Shock Acceleration of the Energetic Particle Background in the Solar Wind
Adviser: Charles Smith

Jeffrey Teesin
Physics
Asymmetry of Power Spectra for Interplanetary Fluctuations at 1 AU
Adviser: Charles Smith

Stephen Tilton
Civil Engineering
Redesign of Mill Plaza
Adviser: Kevin Gardner

Matthew Valle
Civil Engineering
Evaluation of Structural Response of a Steel Framed Building Exposed to Fire
Adviser: Ricardo Medina

Unquiea Wade (special guest from Elizabeth City State University)
Computer Science
Airborne Measurement of Snow Thickness Over Sea Ice
Adviser: Prasad Gogengni (University of Kansas)

Joel Waechter
Allison Zorawowicz
Undeclared
New Hampshire Potential Nuclear Energy Use
Adviser: John Aber

Thadeaus Webster
Chemical Engineering
Seaing Green: Algae Grown in Salt Water as a Potential Source of Biodiesel
Adviser: Ihab Farag

Joshua Wood
Physics
The Simulation of Optical Signals in a Prototype Neutron Detector
Advisers: Ulisse Bravar, Jason Legere, John Macri, James Ryan, Richard Woolf

UNH Manchester Undergraduate Research Conference

Poster Presentations

Wednesday, April 23
4:00–6:00 p.m.
UNHM Auditorium

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.

Rashid Alfaruque
Andrew Conohan
Tejas Desai
Ryan Marcoux
Computer Information Systems and Applied Business Management
Developing Technology Solutions for a Local Non-Profit Organization
Adviser: Mihaela Sabin

Branka Cvokic
Business
American History in Song
Adviser: Robert Macieski

Maria Becker
Biology
Geothermal Power
Adviser: Sarah Kenick

Maria Becker
Biology
Christine Bussiere
Graduate Student
Bioinformatics of Lyme Disease
Adviser: Sarah Kenick
Emily Duane  
Business  
Andrew Dufault  
James Graichen  
Andrew Schwab  
Computer Information Systems  
Asset Mapping Database for New Hampshire Catholic Charities  
Adviser: Mihaela Sabin  

Robert Duprez  
History  
The Journey of Muddy Waters  
Adviser: Robert Macieski  

Jason Durso  
History  
Protest Songs of the Vietnam War  
Adviser: Robert Macieski  

Bryn Farrington  
History  
The Civil Rights Act of 1964: Breaking Down Color Caste  
Adviser: John Resch  

Nicholas Farrow  
History  
U.S. Music Morale of Troops and Civilians of World War II  
Adviser: Robert Macieski  

Anna Gdanian  
Communication Arts  

Danielle Huntress  
Community Leadership  

Hana Jabri  
Business  
Megan Parnell  
General Studies  

William Stewart  
Community Leadership  
Warmth From the Millyard  
Adviser: Kate Hanson  

Hilel Gubenko  
Psychology  
Effects of Meaningful Versus Ambiguous Targets in Motion-Induced Blindness  
Adviser: John Sparrow  

Karen Handley  
Computer Information Systems  
America’s Brewed Awakening: Supercritical CO₂ Processing Grounds for Green Chemistry Success  
Adviser: Sarah Kenick  

Kirsten Hildonen  
History  
The Chinese Must Go: Debates Surrounding the Chinese Exclusion Act of 1882  
Adviser: John Resch  

Kirsten Hildonen  
History  
Jerome Kern: The Elevation of the American Musical  
Adviser: Robert Macieski  

Marina Ilyuk  
History  
USA and USSR in World War II  
Adviser: Robert Macieski  

Mark Lacasse  
History  
When Children March: The Little Rock Nine  
Adviser: John Resch  

Holly Lafond  
History  
The Dawes Commission and the American Indians—1893 to 1905  
Adviser: John Resch  

Nickolas Levasseur  
Microbiology  
A Comparative Analysis of Transposable Elements of the Species C. elegans and C. remanei Using a Bioinformatics Approach  
Adviser: Sarah Kenick  

Brandi Makauskas  
History and English  
James Baldwin’s Black Identity  

Brandi Makauskas  
History and English  
Gothicism in Capote’s In Cold Blood and Other Rooms, Other Voices
The URC, in partnership with the MUB Current Issues Lecture Series, presents an evening with Berrien Moore III

“A Faustian Bargain—Yet Grounded in Science”

Wednesday, April 23
7:30 p.m.
Memorial Union Building, Strafford Room

Nobel Prize team member and former director of the UNH Institute for the Study of Earth, Oceans, and Space, Berrien Moore delivers this year’s URC keynote address. Moore will provide a detailed view of how Earth’s climate is changing faster than scientists have predicted, the dramatic impact of these changes on the Earth, and how we can solve the problem.

UNH Manchester Undergraduate Research Conference

Cinema Day

Thursday, April 24
11:00 a.m.–1:00 p.m.
UNHM Auditorium

The UNH Manchester communication arts program has a production track in which students complete introductory and advanced course work in video production, scriptwriting, audio production, film aesthetics, and documentary production. The student films and scripts illustrate student work at different stages in the curriculum.

Tami Geaghan
English
"Out of the Field": A One-Act Play
Adviser: Dana Myskowski

Jasmine Harris
Communication
Vincent Vassallo
Undeclared
Under $6
Adviser: Anthony Tenczar

Jacob Wen
Communication Arts
The Day
Adviser: Jeff Klenotic

The Naked Arts—Creativity Exposed (Act II)

Thursday, April 24
12:30–2:00 p.m.
Hennessey Theatre, Paul Creative Arts Center

This event exposes the inner creative process of artists working in theatre and music. Presenters will describe the process, research, and other creative aspects undertaken to bring an artistic creation from initial inspiration to the stage.

Rachel Brodeur
Rachel Elias
Theatre
Banned! Censorship in the Theatre
Adviser: David Richman

Glenn Provost
Theatre
How I Learned to Drive
Adviser: David Kaye
Katharine Scorzelli  
Theatre

Benjamin Tibbetts  
Music
Rhapsody in Red: Telling a Story Through Music  
Adviser: Christopher Kies

Julia Zukerman  
Theatre
The Power of Imagination and Arts Integration  
Adviser: Raina Ames

Daniel Jasinski  
History
A Comparative Analysis of British and French Education Legislation During the 19th Century  
Adviser: Nicoletta Gullace

Joshua Lawrence Minty  
History
Vigilantism and the Antislavery Movement in 1850s Boston  
Adviser: Jeffrey Bolster

Anna Peterson  
History and Justice Studies
The “Always Terrified Airwomen” of the Air Transport Auxiliary: The Women Who Flew Military Aircraft in Second World War Britain  
Adviser: Nicoletta Gullace

Lindsay Whitelaw  
History
Working Women: Protective Labor Legislation in the United States  
Adviser: Lucy Salyer

Keri Wolfe  
History
Food Shortages in Spain During the Spanish Civil War  
Adviser: Amanda Wunder


History Department Undergraduate Presentations

Thursday, April 24  
12:40–2:00 p.m.  
Two Concurrent Sessions  
Memorial Union Building, Rooms 302 and 336

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

Laila Ballout  
History and Philosophy
A Nest of Adders: The Lessons from Beirut, 1983, and the Transition of Middle Eastern Policy  
Adviser: Kurk Dorsey

Emily Fekete  
History and Geography
Exploration: Past and Present  
Advisers: Alasdair Drysdale, Gregory McMahon

Gregory Hebda  
History
Cyrus the Mule: Bureaucracy, Multiculturalism and the Founding of the Persian Empire  
Adviser: Gregory McMahon

Guy Poisson  
Electrical Engineering Technology
Narrow Band Light for Alzheimers  
Adviser: David Forest

Christopher Langone  
John Leone  
Electrical Engineering Technology
Durability Test Card  
Adviser: David Forest

Vimal Patel  
Mechanical Engineering Technology
Process Excellence  
Adviser: Ralph Draper

Alan Topliff  
Electrical Engineering Technology
An Electronic Disturbance Generator  
Adviser: David Forest

UNH Manchester Undergraduate Research Conference

Engineering Technology  
Senior Project Presentations

Friday, April 25  
8:00 a.m.–3:00 p.m.  
UNHM Auditorium

Luay Abdulahi  
Electrical Engineering Technology/Computer Technology Option
System Test Configuration Automation  
Adviser: David Forest

Breakfast with UNH President Mark Huddleston and Interim Vice President for Research Taylor Eighmy

Friday, April 25  
9:00-9:30 a.m.  
Memorial Union Building, Granite State Room

This informal gathering gives students and attendees an opportunity to visit with President Mark Huddleston and Interim Vice President for Research Taylor Eighmy. Huddleston and Eighmy will provide a preview of the large university-wide event that follows breakfast—the Parents Association Undergraduate Research Symposium (formerly the Vice President’s Symposium).
David Kaye, associate professor of Theatre at UNH, has literally done it all. He has worked professionally throughout the U.S., Canada, and Latin America as an actor, director, and designer for such highly esteemed organizations as the Texas Shakespeare Festival, the Maine Shakespeare Theatre at Monmouth, the National Theatre of the Performing Arts, Boston Chamber Theatre, Stages Repertory Theatre in Houston, Texas, and New York City’s Julian Acting Company. In addition, he is a produced and published playwright, and has also written, directed, and produced films, documentaries, and television programs for broadcast on PBS.

And while he values each of these more traditional theatre experiences, Kaye’s passion has long been to explore new, experimental ways of expression. He’s found an ideal “stage” in academic life. “Academia is one of the few places today where an artist can pursue the experimental,” says Kaye, who joined UNH in 1996. “I’m fascinated by the ways theatre can affect people beyond its ability to entertain—whether to foster dialogue about political issues, motivate social change, or stimulate the imagination—and traditional venues limited those possibilities.”

Kaye’s interest in the experimental and a less traditional approach to the arts makes his involvement with “Naked Arts—Creativity Exposed” a logical fit. The “Naked Arts” moves beyond the expected to expose the inner creative process of artists working in various disciplines. “For many students, URC offers a chance to be on ‘stage,’ sharing their research and scholarship, but our students present constantly,” he explains. “For an artist, ‘research’ is more about the process or the journey taken from inspiration to the stage or gallery. ‘Naked Arts’ gives our students an opportunity to talk about their motivations and influences, the work they do, and the process they take. It also gives the faculty a chance to highlight project work that we believe is stellar; ‘Naked Arts’ lets viewers see what are truly the best artistic creations of the year.”

Kaye points out that for some students, the research undertaken to prepare for “Naked Arts” may be very literal, such as an historical analysis of the life and time of a particular composer. For others, the research is more abstract, such as an introspective analysis of a personal event that provides a student with inspiration. In all cases, however, the research demonstrates that the arts can touch every discipline. “The arts can encompass history, sociology, economics,” Kaye notes. “I don’t believe there is a single discipline offered on the UNH campus that can’t plug in and see its life reflected in the arts somehow. That is one of the jobs of the artist: to show that reflection so that the viewer or listener has a better understanding of themselves and the world.”

For the students who participate, “Naked Arts” is a meaningful experience. “To be successful, artists have to be willing to open themselves up, to show something of themselves that they may have tried to hide in other parts of their lives. This takes a tremendous amount of courage, and ‘Naked Arts—Creativity Exposed’ celebrates this effort,” Kaye says. “It also provides students with a deeper understanding of their achievements. For many, the act of simply talking about their work requires self-examination and reflection, and often, this introspection helps students see how far they’ve come and what they’ve accomplished.”

Involvement in “Naked Arts” is meaningful for Kaye as well. “There is no greater inspiration than to see the work of students who have achieved a level beyond what I can teach them,” he says. “Many of my students are realizing work that I wish I had created, which is very exciting for anyone who loves theatre. I go deeper into my art every time I teach a student, and seeing the powerful art they create makes me better as an artist.”
High-quality undergraduate research is the hallmark of a University of New Hampshire education. Now, with funds provided by the Parents Association, the University can increase its support to students during the UNH Undergraduate Research Conference (URC). Funding student innovation: it’s one of the many ways the Parents Association enhances the University’s academic mission.

Be informed. Join the community. Make a difference.
Parents Association Undergraduate Research Symposium

The Parents Association Undergraduate Research Symposium showcases students from all disciplines. Students present their faculty-mentored projects in either of two poster sessions, or in one of the three oral presentation sessions. University-wide participants come from a variety of disciplines.

Poster Presentations, Session A

Friday, April 25
9:30–10:40 a.m.
Memorial Union Building, Granite State Room

Kiley Anderson
Biology
Enhua Wang
Plant Biology
Complementation of a Root Skewing Phenotype in Arabidopsis thaliana
Adviser: Estelle Hrabak

Glareh Azadi
Chemical Engineering
Enzymatic Reaction in Microfluidic Device
Advisers: Nivedita Gupta, Palligarnai Vasudevan

Karen Bailey
Kinesiology
The Effect of Bicycle Seat Height on Thigh Muscle Activation
Adviser: John Miller

Suzanne Costanzo
Business Administration and Marketing
Does Marketing Really Effect Sales?
Adviser: Peter Masucci

Kristina Ernst
Social Work
Families First: Helping Pregnant Women with No Insurance
Adviser: L. Rene Bergeron

Amanda Fairbanks
Social Work
An Overview: The Dover Children’s Home
Adviser: Brian Miller

Marisha Florissant
Nursing
Critical Care Nurses Perspectives Towards End-of-Life Care in the Intensive Care Unit
Advisers: Joyce Blood, Gerard Tobin, Carol Williams-Barnard

Kate Gannon
Social Work
Partners in Health
Adviser: Brian Miller

Jordan Goodrich
Environmental Sciences
The Effects of High Ozone Episodes on Temperate Wetland Plants
Adviser: Ruth Varner

Jennifer Gordon
Nursing
Home Symptom Regulation: Perceptions, Practices, and Needs of Congestive Heart Failure Patients
Advisers: Joyce Blood, Gene Harkless, Carol Williams-Barnard

Susan Gordon
Social Work
The Scope of Traumatic Brain Injury
Adviser: L. Rene Bergeron

Brittnee Greenleaf
Kinesiology
Effects of Age and Activity Level on a Variety of Torque Variables, Agonist Muscle Activation, and Antagonist Muscle Activation of Elderly Women
Adviser: Dain LaRoche

Jamie Hanson
Social Work
N.H. Department of Health & Human Services: About Services for Children, Youth, & Families
Adviser: L. Rene Bergeron

Jessica Harring
Social Work
Understanding Sexually Transmitted Diseases
Adviser: Brian Miller

Elizabeth Joseph
English
In the Arms of the Community
Adviser: Clark Knowles

Allison Lane
Nursing
The Knowledge and Attitudes Regarding Pain of Direct Entry Masters in Nursing Students and Baccalaureate Students at a Rural New England University
Advisers: Joyce Blood, Susan Fetzer, Carol Williams-Barnard

Rebecca Lehr
Environmental Sciences
Developing a Climate Action Plan for UNH: Analysis, Collaboration, and Implementation
Adviser: Cameron Wake

Nickolas Levasseur
Microbiology
A Comparative Analysis of Transposable Elements of the Species C. elegans and C. remanei
Using a Bioinformatics Approach
Adviser: Sarah Kenick

Alexander Maffucci
Economics
Ethanol’s Effect on the American Beer Industry
Adviser: Reagan Baughman

Margret Mansfield
Microbiology
Tracking the Timeline of the Progression of Verticillium Wilt Infection in Susceptible and Resistant Plants of Mentha longifolia
Adviser: Thomas Davis

Jessica McKinney
Occupational Therapy
The Occupational Experience of Church Membership
Adviser: Elizabeth Crepeau

Katelyn Parker
Social Work
Mental Health and the Justice System
Adviser: L. Rene Bergeron
The Gift of Hope

Relaying a message of hope in our world today is a true gift to give. It doesn’t have to be a verbal message, but rather something very tangible. You can express hope in many ways; whether you are planning a food and clothing drive, organizing a group of volunteers to clean up your town, or donating money to a natural disaster fund, you can give back to a community that means something to you.

At the Thompson School of Applied Science I have learned how to achieve event-planning success through the Community Leadership program. In my presentation, I will discuss the methods and criteria that help make a drive successful, complete with faculty, student, and alumni interviews and reflections on the program. I will take viewers step-by-step through the planning process of a major event that can be used campus-wide, or for an entire town. This will include the information I collected and presented to Boston University at the East Coast Conference on Hunger and Homelessness, a national campaign.

For me, giving is a way of life. I have been an intern for the UNH Waysmeet Center’s Cornucopia Food Pantry for the past three years, and a facilitator for Cooperative Extension’s Community Profiles for the past two. Currently, I am employed by Strafford County’s Riverside Rest Home as a Program Assistant and Donations Coordinator, planning and implementing social activities for senior citizens.

Nicole M. Labranche Finitsis shares her organizational secrets in "Planning an Effective Service Project" at the Thompson School Community Leadership Program on Wednesday, April 23, in the Memorial Union Building.
Parents Association
Undergraduate Research Symposium

Oral Presentations, Session A

Friday, April 25
9:30–10:40 a.m.
Memorial Union Building

MUB, Room 321

Environment/Ecotourism
Moderator: Molly Dorsey

Chelsea Amato
International Affairs and Linguistics
Beauty is a Fish: Japanese Fish and Whaling Trends in Reaction to International Pressures
Adviser: Albert Griffin

Emily Gifford
International Affairs and Geography
Patagonia: Trouble in Paradise
Adviser: Albert Griffin

Jessica Lizotte
International Affairs and Spanish
Pura Vida: The Pros and Cons of Ecotourism in Costa Rica
Adviser: Albert Griffin

Patrick Nearing
Civil Engineering
The Effective Use of Toll Systems in Financing Infrastructure: A Comparison of United States and European Policy
Adviser: Albert Griffin

Karina Olson
International Affairs and Political Science
Spain’s Environmental Policy
Adviser: Albert Griffin

MUB, Room 340

From Classroom to Community: Women’s Studies Theory in Practice
Moderator: Mary Moynihan

Marie Coyle
English
Aubree Cecil
Stacy Clark
Emily Dewey
Brittany Fecteau
Women’s Studies
Adviser: Mary Moynihan

MUB, Room 332

Immigration Issues—North
Moderator: Claire Malarte-Feldman

Kathryn Cox
International Affairs and International Business and Economics
The Role of Hungarian-Roma in Hungary and the European Union
Adviser: Albert Griffin

Tyler Kavanagh
International Affairs and French
French Immigration and Racism
Adviser: Albert Griffin

Michelle Marino
International Affairs and International Business and Economics
The Effect of Changing Demographics in France
Adviser: Albert Griffin

Vanessa Roche
International Affairs and Sociology
Racism in France
Adviser: Albert Griffin

Laura Smetana
International Affairs and Political Science
Real Life on the Stage: The Story of a Macedonian Immigrant
Adviser: Albert Griffin

Tyler Walker
International Affairs and Geography
Turkish People in Germany
Adviser: Albert Griffin

MUB, Room 334

Immigration Issues—South
Moderator: Bud Khleif

Charley Faria
International Affairs and Geography
Brazilian Communities in Greater Boston and Greater Hartford, CT
Adviser: Albert Griffin

Elizabeth Kirwan
International Affairs and Spanish
The Search for Cultural Identity: Spanish Gypsies of Southern Spain
Adviser: Albert Griffin

Mary Mihovan
International Affairs and English
The Influence of Migration on Spain
Adviser: Albert Griffin

Laura Pires
International Affairs and Political Science
Immigration in Spain
Adviser: Albert Griffin

MUB, Room 237

Multidisciplinary Session I:
Health Issues, Delinquency, and Social Tensions
Moderator: Molly Doyle

Jessie French
Psychology and Justice Studies
Gender Differences in Predicting Delinquency: Individual Differences Versus Attitudes
Adviser: Ellen Cohn

Mercedes Gaffney
International Affairs and European Cultural Studies
Social Tensions in Post Unification Germany Reflected Through German Film
Adviser: Mary Rhiel
Kara Hinrichs  
International Affairs and German  
German Fairytales  
Adviser: Mary Rhiel

Danielle Laroche  
Health Management and Policy  
Improving Communication Between Community Activists and Regulators in Addressing Environmental Health Concerns  
Adviser: Rosemary Caron

Emily Roberts  
International Affairs and Nursing  
Nurses Performing Triage in Uganda: Decision-Making in Low Resource Settings  
Adviser: Gene Harkless

MUB, Room 336

Sources of Stability and Instability in the International Environment  
Moderator: Lionel Ingram  
Jeffrey Brunelle  
History and Political Science  
The Strength of the Uni-Multipolar System: The Concert of Europe  
Adviser: Alynna Lyon

Miner Crary  
Philosophy  
Isolating the Causes of Terrorism: Economic Disillusionment  
Adviser: Lawrence Reardon

Brian Foley  
Political Science  
Growth of Private Military Corporations: Who Is Responsible?  
Adviser: Lawrence Reardon

Andrew Fuller  
Political Science  
Nationalization in the Global Economy  
Adviser: Lawrence Reardon

William Hart  
Political Science  
The CNN Effect and Media Influence on Foreign Policy  
Adviser: Alynna Lyon

Kimberly Romano  
Political Science  
Great Britain’s Declining Economy  
Adviser: Lawrence Reardon

MUB, Room 330

Spain/Morocco  
Moderator: Lori Hopkins  
Sara Arnould  
International Affairs and Spanish  
Spanish Health Care  
Adviser: Albert Griffin

Nathan Borgman  
International Affairs and English  
The Condition of Women in Morocco  
Adviser: Albert Griffin

MUB, Room 207

Sociology—Towards Solutions for Key Societal Issues: Violence, Suicide, Healthcare, and TV  
Moderator: Sharyn Potter  
Shannon Byrne  
Sociology and Justice Studies  
Bringing in the Bystander In-Person Prevention Program with the UNH Citizen Police Academy  
Adviser: Sharyn Potter

Feoder Gostjev  
Sociology  
Effects of Ethnically Specific Customs, Related to Dating and Marital Practices, on the Variance of Suicide Rates Among Immigrants in the United States  
Adviser: James Tucker

Valerie Hooper  
Sociology  
Portrayals of Gender in Television Commercials and the Effects on Achievement Aspirations of Audiences  
Adviser: Jean Elson

Nicole Landry  
Sociology  
College Students’ Attitudes and Acceptance of Body Modification  
Adviser: Catherine Moran

Jamie Morrill  
Sociology and Justice Studies  
A Portrait of a Broken System: Provider Perspective on Healthcare Delivery in Hospitals—Recommendations for the Facilitation of Elder Care  
Adviser: Sharyn Potter

Lauren Schweizer  
International Affairs and Environmental Conservation Studies  
Case Study on the Lawyers’ Environmental Action Team (LEAT) and Their Position on Two Cases of Indigenous Land Rights: The Ngorongoro Conservation Area and Usangu Basin, Tanzania  
Adviser: Andrew Rosenberg

MUB, Strafford Room

Multidisciplinary Session II: Discussions of Natural Resources, Protection, and Fundraising  
Moderator: Ken LaValley  
Alexander Brickett  
Political Science  
The Hydrostatic Hinge—An Innovative Solution to Reducing Bycatch Mortality Rates in the Fisheries  
Adviser: Kenneth LaValley

Benjamin Chiang  
Thadeaus Webster  
Chemical Engineering  
Seaing Green: Algae Grown in Salt Water as a Potential Source of Biodiesel  
Adviser: Ihab Farag

Michelle Daigneault  
Recreation Management and Policy and Program Administration  
Ride for Relay—UNH RMP Recreation Society  
Adviser: Joshua Carroll

Jason Ouellette  
Biology  
Paul Kyriacopulos  
Ryan Leach  
Chemical Engineering  
Algae Growth in Waste Water and Effluent Solutions  
Adviser: Ihab Farag
John Foss
International Affairs and Geography
Al-Andalus: The Circumstances for the Prosperity in Islamic Spain
Adviser: Albert Griffin

John Hilton
International Affairs and Spanish
Spain and the United States: Unequal Rates of Violent Crime
Adviser: Albert Griffin

Matthew Nutt
International Affairs and Spanish
Corruption in Spain
Adviser: Albert Griffin

Samuel Schofield
International Affairs and Geography
Andalucia: The Prospects for a Regional Economy in the EU
Adviser: Albert Griffin

MUB, Room 203

Sports Films and American Culture

Moderator: Beverly James

Adrena Altoonian
Communication
Kicking into High Gear: Goal! The Dream Begins
Adviser: Beverly James

Richard Drenkhahn
Communication
If You Can Dodge an Obstacle You Can Dodge Anything
Adviser: Beverly James

Daniel Leatherbee
Communication
“Horse Feathers”: A Non-Sequitur Challenge of Conventionalism
Adviser: Beverly James

Andrew Long
Communication
Triumphing Adversity: “Invincible”
Adviser: Beverly James

Meghan Mahoney
Communication
Million Dollar Dreams
Adviser: Beverly James

Nicholas Miale
Communication
Respect Can’t Be Earned on a Ballfield: The Ideologies and American Values in “61”
Adviser: Beverly James

Jamie White
Communication
From Running a Home to Home Runs: “A League of Their Own”
Adviser: Beverly James

MUB, Rockingham Lounge

The 2008 Presidential Elections
Moderator: Dante Scala

Trevor Mauck
Political Science and Philosophy
The Elements of a Successful Primary Campaign
Adviser: Dante Scala

Joseph Mellone
Political Science
Evaluating the Campaign—Bill Richardson
Adviser: Andrew Smith

Jake O’Donnell
English/Journalism
White House Bound: The Candidacy of Bill Richardson
Adviser: Dante Scala

Jarred Rego
Political Science
The Candidacy of Rudy Giuliani
Adviser: Dante Scala

Brennan Ward
Psychology
New Hampshire Voting Realignment: Trend or Apparition
Adviser: Andrew Smith

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Political Science
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Brennan Ward
Psychology
New Hampshire Voting Realignment: Trend or Apparition
Adviser: Andrew Smith

MUB, Room 338

The Politics of International Trade and Finance
Moderator: Caitlyn Piper

Corey Garry
Political Science
Foreign Direct Investment, the U.S., and its Implications on Power and Security
Adviser: Lawrence Reardon

Caitlin O’Connor
Political Science
Reviving Russia: Can a Legacy of Limited Economic Stability Be Broken?
Adviser: Lawrence Reardon

Jacob Schwartz-Forester
Political Science and Communication
The Bretton Woods System: Regime Theory in the Post War World
Adviser: Lawrence Reardon

Robbert Van Zanten
Political Science
The International Monetary Fund: Savior or Scavenger?
Adviser: Lawrence Reardon

MUB, Room 233

Understanding the News: Critical Studies in Communications
Moderator: James Farrell

David Bettencourt
Political Science and Communication
Political Image and Expanded Media Coverage: A Comparison of Ronald Reagan and George W. Bush
Adviser: James Farrell

Hannah Lally
Communication
Cynicism and the Horse Race: Analysis of N.H. Primary Campaign Coverage
Adviser: James Farrell
Parents Association
Undergraduate Research Symposium

Poster Presentations, Session B

Friday, April 25
10:50 a.m.–Noon
Memorial Union Building, Granite State Room

Jacob Aho
Alexander Evangelou
Jared Perkins
Mechanical Engineering
InterFACE
Adviser: John LaCourse

Melissa Allen
Jaime Gallagher
Psychology
The Effect of Parental Style on Delinquency, Attitude, and Individual Difference Variables
Adviser: Ellen Cohn

Alexandra Anderson
Social Work
The Dover Teen Center
Adviser: Brian Miller

Ashley Barbour
Nursing
The Work Experience of Ashanti Midwives: Understanding Satisfaction and Challenges of Practice
Adviser: Gene Harkless

Amanda Belville
Occupational Therapy
Perceived Stress in Children and its Relation to Overall Health
Adviser: Barbara White

Helmi Churcher
Nutritional Sciences
Evaluating the Relationship Between Body Composition and Physical Activity of College Students
Adviser: Jesse Morrell

Shari Davis
Nursing
Malaria Prevention Efforts: A Descriptive Study in the Afigye-Sekyere District of the Ashanti Region of Ghana
Adviser: Gene Harkless

Megan Delaney
Hospitality Management
Going Green: The Greening of the Hospitality Industry
Advisor: Udo Schlentrich

Cara Gadapee
Social Work
The Feminist Health Center of Portsmouth, N.H.
Adviser: Brian Miller
Ruth Gerstenblatt
Hospitality Management
Wentworth by the Sea: Function Room Occupancy and Revenue Research Study
Adviser: Udo Schlentrich

Robert Haile (special guest from Great Bay Community College)
Teacher Preparation
Rising Sea Levels and the Impact on Hampton and Seabrook’s Estuary
Adviser: Stephen Hale

Lauren Hardies
Communication Sciences and Disorders
Outcome Measures for the New Hampshire Healthy Hearing Program
Adviser: Michael Fraas

Kirsten Hildonen
History
Film Exhibition in Manchester, N.H.: Movies as Leisure for an Industrial Working Class
Adviser: Jeffrey Klenotic

Muge Hurkal
Economics and Mathematics
Will Enlargement of the European Monetary Union Create More Difficulties for the European Central Bank’s Monetary Policy Decisions?
Adviser: Michael Goldberg

Jay Hydren
Kinesiology
Circuit Weight Training During the Postpartum Period: Impact on Milk Quality and Infant Acceptance
Adviser: Tim Quinn

Mandy Lancaster
Social Work
Family Homelessness
Adviser: Brian Miller

Alexandra Lasky
Social Work
The On-Track Program
Adviser: Brian Miller

Andrew Lee
Geography
Greenhouse Gases from Shipping Emissions Over the Gulf of Maine
Adviser: Huiting Mao

FRANKLIN ROBERTS
International Affairs and Russian Language
College of Liberal Arts
Faculty Mentor: Albert Griffin

From Russia, with Love

My dual major has helped me discover the world. Last spring, I studied at the Moscow University of the Humanities. The entire experience reaffirmed my belief that cultural awareness is vitally important in today’s global society.

I chose Russian as my first major because I felt that my understanding of the world was limited by my lack of knowledge about societies and cultures beyond the United States. All around me in movies, television, printed media, and in conversation with people close to me, I was shocked by the willingness of people in our country to perpetuate false stereotypes and their misunderstandings of the world at large. I resolved to take a different path, one that would hopefully lead me toward a more tolerant and objective view.

My research in international affairs for the URC focuses on author Vladimir Sorokin, whose sensational, politically charged novels have come under attack by Russian neoconservatives.

Hear Franklin Roberts discuss the state of democracy in contemporary Russian society as evidenced through the treatment and perception of the arts at the Parents Association Undergraduate Research Symposium on Friday, April 25.
Parents Association
Undergraduate Research Symposium

Oral Presentations, Session B

Friday, April 25
10:50 a.m.–Noon
Memorial Union Building

MUB, Room 336

Chinese Foreign Policy:
To Cooperate or Not
Moderator: Rina Lee

Anna Brown
Political Science
The Shanghai Six: Military Threat or Economic Alliance?
Adviser: Lawrence Reardon

Sean Coughlin
International Affairs and Political Science
China’s Changing Attitude Toward Japan
Adviser: Lawrence Reardon

Arthur Hawxhurst
History
China’s Search for Nationalism Through its WTO Ties
Adviser: Lawrence Reardon

Losing Ground: Disinvestment in China’s Growing Economy
Adviser: Lawrence Reardon

Cooperation or Conflict: A Contemporary Look at the Bilateral Economic Relations of China and Japan
Adviser: Lawrence Reardon

Courtney Wright
Political Science
China’s Decision to Enter the Korean War
Adviser: Lawrence Reardon

Nanette Roberto
Social Work and Outdoor Education
The Solstice School
Adviser: L. Rene Bergeron

Kathryn Robichaud
Social Work
The Interfacing of the Juvenile Justice System with a Teen Group Home Placement
Adviser: L. Rene Bergeron

Corinne Sadlowski
Chemistry
Diastereoselective Control Applied to the Tandem Chain Extension Methodology of Alpha-Carboxyester Imides and Bis-Imide Precursors
Adviser: Charles Zercher

Zachary Sarette
Economics
Entrepreneurship in Silicon Valley and Hollywood
Adviser: Delia Konzett

David Sodaitis
Physics
Shock Acceleration of the Energetic Particle Background in the Solar Wind
Adviser: Charles Smith

Katherine Steere
Communication Sciences and Disorders and French
Social Communication and Quality of Life Following Acquired Brain Injury
Adviser: Michael Fraas

Sarah Sweeney
Social Work
Easter Seals
Adviser: Brian Miller

Rebekah Venable
Social Work
Caregiver Compensation Through the Adult In-Home Care Program
Adviser: L. Rene Bergeron

Brennan Ward
Psychology
New Hampshire Voting: Trend or Apparition
Adviser: Andrew Smith

Nickolas Levasseur
Microbiology
A Comparative Analysis of Transposable Elements of the Species C. elegans and C. remanei Using a Bioinformatics Approach
Adviser: Sarah Kenick

Erikka Lewis
Environmental Conservation Studies

Savanna Pettengill
English/Journalism

Kristen Schwerin
Music Education
Halting Hodgson Brook Destruction: Raising Awareness Through Film
Adviser: David Burdick

Jenna Madore
Nutritional Sciences
The Association between Chronic Disease Risk Factors and Prescription Medication Use of Young Adults
Adviser: Jesse Morrell

Caitlin Massey
Social Work
The History of Sexual Assault Services
Adviser: L. Rene Bergeron

Caitlin McCoy
Social Work
Juvenile Delinquency and Crime
Adviser: L. Rene Bergeron

Max Mehlman
Psychology and Zoology
Mental Map Integration by Rats—A Pilot Study
Adviser: Jessica Bolker

Audrey Nailor
Biology
The Survival of the Fantastic: The Evolution of Pelagicaballus Devius and Creative Integration in the Life Sciences
Adviser: Jessica Bolker

Anna Parker
History
Civil War Diaries and Letters
Adviser: William Ross

Nanette Roberto
Social Work and Outdoor Education
The Solstice School
Adviser: L. Rene Bergeron

Kathryn Robichaud
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The Interfacing of the Juvenile Justice System with a Teen Group Home Placement
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Brennan Ward
Psychology
New Hampshire Voting: Trend or Apparition
Adviser: Andrew Smith
MUB, Room 207
Communication Honors Presentations
Moderator: Mardi Kidwell
Tavia Lee-Goldstein
Communication
Narrative Mediation in Adolescent Conflict Management
Advisers: Mardi Kidwell, Sheila McNamee

Elizabeth Plageman
Communication
"Life's a Bitch, Don't Vote for One": The Rhetorical Embodiment of Hillary Clinton
Advisers: Melissa Deem, Mardi Kidwell

Michael Soha
Communication
Narrowing the Field: How the Mainstream Media Rejected Alternative Candidates in the 2008 Primary Election
Advisers: Mardi Kidwell, Joshua Meyrowitz

Jamie White
Communication
Asking Questions: The Interactional Organization of a Police Interrogation
Adviser: Mardi Kidwell

MUB, Room 321
Economic Disparities
Moderator: Marco Dorfsman
Devin Begley
International Affairs and Spanish
A Study of the Mexican Social Strata and its Economic Implications
Adviser: Albert Griffin

Derek Hubbard
International Affairs and Spanish
CAFTA and Costa Rica
Adviser: Albert Griffin

Samantha Riemer
International Affairs and Political Science
Importance of Remittances to Senegalese
Adviser: Albert Griffin

Chloe Rochon
International Affairs and Spanish
Las maquiladoras de NAFTA
Adviser: Albert Griffin

Lauren Schweizer
International Affairs and Environmental Conservation Studies
Assessing the Environmental Effects and Economic Viability of Ecotourism in New Zealand, Costa Rica, and Tanzania
Adviser: Albert Griffin

Erica Tarnowski
International Affairs and Political Science
Os Preconceitos do Brasil: A Multifaceted Experience
Adviser: Albert Griffin

MUB, Room 338
Growing Out of Poverty
Moderator: Liz Kyriacou
Lori Costantino
Political Science and Geography
Girl Power: Measuring Women's Involvement in the Workforce as an Indicator of National Development
Adviser: Lawrence Reardon

Ethan George
Political Science
Lifeblood or Poison? The Resource Curse on Development
Adviser: Lawrence Reardon

James Hart
Political Science
China and the World Bank: A Challenge of Differing Agendas
Adviser: Lawrence Reardon

Thomas Kinney
Political Science
A Market in the Land of Shadows: The Explosion of the International Black Market
Adviser: Lawrence Reardon

Brett Vollmuth
Political Science
Poor International Relations: The Economic Killer
Adviser: Lawrence Reardon

MUB, Room 203
Multidisciplinary Session III: Reflections on Politics, Teaching, Advertising, Art, and Problem Solving
Moderator: Molly Doyle
Austin Dionne
Computer Science
Heuristic Search with Deadlines—How Can We Solve Hard Problems in a Limited Amount of Time?
Adviser: Wheeler Ruml

Meghan Marcus
Communication Arts
Suggestion of Roles in Gay Advertising: A Modern Application of Erving Goffman
Adviser: Jeffrey Klenotic

Katharine Mock
Fine Arts
Roots: An Installation of Drawings, Paintings, and Prints
Adviser: Vicki Wright

Emily Silfies
Art Studio
A Material Portrait: The Clothing of Temperence Pickering Knight
Advisers: Astrida Schaeffer, Mara Witzling

Laura Smetana
International Affairs and Political Science
A Look Inside: Reflections on Communism and Democracy in Slovakia
Adviser: Lawrence Reardon

Anna Visciano
Anthropology
From Dover to Knysna: Cross-Cultural Learning and Teaching through Drama
Adviser: Raina Ames
ADAM HERNANDEZ ’08
Kinesiology
College of Health and Human Services
Faculty Mentor: Associate Professor Erik Swartz

Crucial Cruciate Research

“Research has proven that women are four to six times more likely to sustain an anterior cruciate ligament (ACL) injury when compared to their male counterparts. The cause for this is unknown.”

I first heard this in my introductory athletic training class and remember being stricken by the statistic. I could not understand why there was no answer to this problem. As a budding athletic trainer, I was under the impression that all the causes for athletic injuries had been determined. As my education has progressed, I’ve begun to understand the true complexity of this sports-related injury, which increased my curiosity about it.

During my junior year, Associate Professor of Kinesiology and Athletic Training Erik Swartz asked me if I would like to conduct research with him to examine the differences in ACL injuries among females and males. I became very excited about the possibility of exploring this trend in more detail and, with his recommendation, I applied for a Summer Undergraduate Research Fellowship (SURF) from the UNH Hamel Center for Undergraduate Research.

The opportunity to do research has been truly rewarding. I have explored the research process and learned much about research and myself. Through the experience I’ve learned that I can persevere through challenges and make a difference in my profession.

The opportunity to conduct research with the help of the Hamel Center for Undergraduate Research is something that I will look back on fondly many years after graduation and is an experience I highly recommend to others.

Find out what Adam Hernandez ’08 concluded about gender difference in ACL injuries at the Parents Association Undergraduate Research Symposium on Friday, April 25.

MUB, Room 237

Multidisciplinary Session IV:
Exploring Human Health Issues

Moderator: Brent Bell

Mari Alberico
Kinesiology
Exploring the Meaning of Community Walking Experiences Between Physical Education Teacher Education (PETE) Students and Adults with Cognitive Disabilities Adviser: Michelle Grenier

Julie Anastasia
Nursing
The Lived Experience of Adults Diagnosed with Attention-Deficit Hyperactivity Disorder Advisers: Joyce Blood, Raelene Shippee-Rice, Carol Williams-Barnard

Julie Arnold
Psychology and Justice Studies
Decreasing Sexual Violence Through Bystander Intervention: A Study of the Greek and Intercollegiate Athletic Communities Advisers: Victoria Banyard, Mary Moynihan

Adam Hernandez
Kinesiology
A Gender Comparison of Lower Extremity Landing Biomechanics Utilizing Different Tasks: Implications in ACL Injury Research Advisers: Dain LaRoche, Erik Swartz

Jamme Morency
Occupational Therapy
The Perception of Caregiving for Older Persons in Belize Adviser: Kerryellen Vroman

Kimberly Stevens
Family Studies
Use of Child Care Subsidies Among TANF Clients Adviser: Elizabeth Dolan
Emily Roberts
International Affairs and Nursing
A Comparison and Examination of HIV/AIDS Initiatives and Support in Uganda by the Past Two United States Presidential Administrations
Adviser: Albert Griffin

Franklin Roberts
International Affairs and Russian
Naked Truth: The Specter of Censorship in Contemporary Russian Society
Adviser: Albert Griffin

Stavrissa Terzis
International Affairs and Anthropology
The Embodiment of Tradition: Spirit Possession in Modern Madagascar
Adviser: Albert Griffin

MUB, Room 332

Terror/Violence/Racism
Moderator: Molly Dorsey

Mercedes Gaffney
International Affairs and European Cultural Studies
Comparison Between U.S. and German Shelters for Battered Women
Adviser: Albert Griffin

Lisa Mulvey
International Affairs and French
French Military Presence in the Gulf: Why Now?
Adviser: Albert Griffin

Zachary Rachins
International Affairs and International Business and Economics
Camorra Influence on Naples Waste Management
Adviser: Albert Griffin

Catherine Reno
International Affairs and Political Science
Why Jihad: A Study of What Drives Individuals to Wage Jihad
Adviser: Albert Griffin

Casey Thomas
International Affairs and Anthropology
Inca Si, Indio No: Racism and Identity in Peru
Adviser: Albert Griffin
Frank Tinsley
International Affairs and Spanish
The Basque Question: Legitimacy of an Independent Basque Nation
Adviser: Albert Griffin

MUB, Room 340

The Atkins Investment Group

Moderator: Ahmad Etebari
Christopher Antlitz
Michael Conklin
Bradley Flaishans
Ryan Goodrich
Anthony Macleod
Finance
Advisers: Stephen Ciccone, Ahmad Etebari

MUB, Room 302

Whittemore School of Business and Economics Marketing Workshop

Moderator: Peter Masucci
Jaime Anttonen
Amy Curran
Justin Herman
Emily Keating
Keith Lundquist
Stacy Mello
Christopher Mullen
Andrew Ricker
Jorge Rivadeneyra
Business Administration
UNH Foundation: Marketing to Current College Students the Importance of Philanthropic Giving
Adviser: Peter Masucci

Alexander Balford
Lauren Buck
Suzanne Costanzo
Peter Erickson
Matthew Evans
Sarah Groppo
Abram Nunes
Scott Ricci
Gregory Richardson
Business Administration
USNH—55% Initiative: Marketing New Hampshire as a Place to Work, Play, and Stay After College Graduation
Adviser: Peter Masucci

Sandra Billodeau
Stephanie Bottari
Kelliann Boyd
Adrienne Dion
Patrick Fessenden
Meagan Inman
Travis King
Christopher LaHaise
Peter Spiak
Elizabeth Storti
Erica Travelyn
Business Administration
USNH—Go Ahead, Get Ahead Part 4: Marketing to High School Students the Importance of Attending College—Implementation Phase
Adviser: Peter Masucci

Parents Association Undergraduate Research Symposium

Oral Presentations, Session C
Friday, April 25
1:15–2:25 p.m.
Memorial Union Building

MUB, Room 237

Ideologies of Gender, Race, and Class in Mainstream American Film

Moderator: Jennifer Borda
Jenna Heinz
Communication
Scheming on Screen: The Art of Audience Manipulation as Manifested in John Q.
Adviser: Jennifer Borda

Kailey Kiritsy
Communication
Boyz N the Hood: Fathers and Families in the Hood
Adviser: Jennifer Borda

David Leary
Communication
Violence or Peace: An Actual Choice in Do the Right Thing?
Adviser: Jennifer Borda

Tavia Lee-Goldstein
Communication
“But Inside Doesn’t Matter”: Making Meaning in Murder in American Psycho
Adviser: Jennifer Borda

MUB, Room 207

Multidisciplinary Session VI:
Investigations of Killers, Movies, Decision Making, and Growth

Moderator: Stephen Hale
Justin Carr
Anthropology
African Refugees and the Process of Resettlement: Examining Refugee Experiences in New Hampshire and Ghana
Adviser: Robin Sheriff

Kate Gannon
Social Work
Adviser: Mary Banach

A student panel presentation. Student names and titles will be available at the event.
MUB, Room 332

**Public Culture and the Scandalous Rhetorics of Non-conformity**

Moderator: Melissa Deem

Emma Baillargeon
Communication
Little People Big World: Reality Television, Hyperembodiment, and the Rhetorics of Normalization
Adviser: Melissa Deem

Michael Heath
Communication
Race, Gender, and the Public Sphere: The Sexual Harassment Case of Isiah Thomas and Anucha Browne Sanders
Adviser: Melissa Deem

Dylan McGraw
Communication
Scandalous Amy Winehouse and the Impossible "Zone of Privacy"
Adviser: Melissa Deem

Vanessa Williams
Communication and Spanish
Christ Had a Wife?: Mary Magdalene as Hypersexual Icon
Adviser: Melissa Deem

MUB, Room 334

**Refugees, Human Rights, and Economics**

Moderator: Matt York

Noah Benton
Political Science
Curbing Illegal Immigration Through Foreign Investment Rather Than Walls
Adviser: Lawrence Reardon

Kellie Illmensee
Political Science
Human Rights Violations and Economic Underdevelopment: Is There a Connection?
Adviser: Lawrence Reardon

Cade Harstedt
English
Film Underground: UNH's Movie Community
Adviser: Delia Konzett

Daniel Hourihan
Communication and English
Why We Love the Killer: The Cowboy, Gangster, and Samurai
Adviser: Delia Konzett

Sharmistha Mitra
Molecular, Cellular, and Developmental Biology
Identification of Growth Conditions That Affect the Formation of a Truncated Poly(A) Binding Protein in Saccharomyces cerevisiae
Adviser: Clyde Denis

Sabrina Pickle
Economics and Finance

Dally Reyes
Accountancy
(special guests from Bentley College)
Democratic or Dictatorship: Taking Students Ideas into Account
Adviser: Angelique Davi (Bentley College)

MUB, Room 338

**Politics in America and the Middle East**

Moderator: Jeanne Sowers

Laila Ballout
History and Philosophy
A Nest of Adders: The Lessons from Beirut, 1983, and the Transition of Middle Eastern Policy
Adviser: Jeannie Sowers

David Bettencourt
Political Science and Communication
The Conservative Legacy of Wm. F. Buckley
Adviser: Susan Siggelakis

Niki Floros
Kimberly Guay
Political Science
The Discrepancy of Sentencing in Criminal Cases Involving Crack Cocaine and Powder Cocaine
Adviser: Susan Siggelakis

Trevor Mauck
Political Science
The Dynamic Between the Moroccan Legislature and Monarchy
Adviser: Jeannie Sowers

Kelly Mercer
Political Science
The Effects of Energy Lobbying on Environmental Legislation
Advisers: Lawrence Reardon, Jeannie Sowers

Laura Parmenter
Nursing
Dissent and Democratic Values
Adviser: Marla Brettschneider

MUB, Room 336

**Political Thought and Dissent**

Moderator: James Croker

Jessica Bliek
Political Science
Dissent and Normative Expectations
Adviser: Marla Brettschneider

Brittany Clement
Joseph Mellone
Political Science
Dissent Issues in Democracy
Adviser: Marla Brettschneider

Jessica Compton
Economics
Title IX
Adviser: Marla Brettschneider

Lisa Merrill
Political Science and Justice Studies
Native Americans and Citizenship
Adviser: Marla Brettschneider

Laura Parmenter
Nursing
Dissent and Democratic Values
Adviser: Marla Brettschneider
MUB, Room 203

Rhetoric and Public Problems
Moderator: Lawrence Prelli

Daniel DiPalma
Samantha McCracken
Bryan Ouellette
Communication
How to Constrain Public Deliberation: The Case of Newmarket’s New High School Proposal
Adviser: Lawrence Prelli

Christopher Feeney
Michael Soha
Ross Tinkham
Communication
The Rhetoric of Dover’s Tax Cap Campaign
Adviser: Lawrence Prelli

Natalie Leavitt
English

Patrick Moran
Gregory Whalen
Communication
The Insulation of Public Discourse: Portsmouth’s Cruise Ship Issue
Adviser: Lawrence Prelli

MUB, Room 340

Sociology—Perceptions on Diverse Social Issues
Moderator: Catherine Moran

Silas Archambault
Sociology
Summer 2007 Amtrak Downeaster Passenger Survey
Adviser: Benjamin Brown

Brian Harland
Sociology
Stress and Its Effects on Eating Disordered Behavior
Adviser: Catherine Moran

Skye MacKay
Sociology and Justice Studies
College Students’ Knowledge, Attitudes, and Testing Behaviors in Regard to HIV/AIDS
Adviser: Catherine Moran

Amanda Potter
Sociology and Anthropology
Students’ Perceptions of Differently Gendered Professors
Adviser: Jean Elson

MUB, Room 330

We Hold These Truths: Student Reflections on Democracy

Winners of the 2008 Honors Advisory Board Essay Contest on Democracy
Moderator: Scott Smith

Andrew Long
Communication
Are You Voting for Democracy?
Adviser: Scott Smith

Andrew McKernan
Chemical Engineering
Freedom and Svoboda: What Does Freedom Mean?
Adviser: Scott Smith

Lauren Schweizer
International Affairs and Environmental Conservation Studies
Democracy As A Verb: An Action Word
Adviser: Scott Smith

MUB, Room 302

Whittemore School of Business and Economics Marketing Workshop
Moderator: Peter Masucci

Caitlin Brady
Nicole Duquette
Emily Eastman
Daniel Keleher
Kara Langlois
Ryan Martin
Robert Russ
Business Administration
Undergraduate Research Conference—Part 1: Marketing Awareness and Perceptions of the URC and Designing a Marketing Campaign
Adviser: Peter Masucci

Antoinette Barnas
Brandon French
Brittany Hughes
Matthew Kenney
Jacob Losik
Melanie Nelson
Alana Warren
Business Administration
Undergraduate Research Conference—Part 2: Implementing Marketing Programs Aimed at Increasing Participation and Attendance
Adviser: Peter Masucci
The Naked Arts—Creativity Exposed (Act III)

Friday, April 25
12:15–1:00 p.m.
Memorial Union Building,
Strafford Room

This event exposes the inner creative process of artists working in various disciplines. In Act III, students perform and discuss a collaborative piece of interdisciplinary creativity within the artistic disciplines—Art, Music and Theatre/Dance.

Michael D’Errico
Music Education

Kelsey Keenan
Art Studio

Sara Packin
Stephen Winglass
Theatre

Clash of the Artists! Collaboration in Performance and Process
Advisers: Rob Haskins, David Kaye, Jennifer Moses

College of Health and Human Services Grimes Award Competition

Friday, April 25
1:00–4:00 p.m.
Pettee Hall, G-10

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

Information on participants will be available at this event.

MEGAN DELANEY ’09
Hospitality Management
Whittemore School of Business and Economics
Faculty Mentor: Udo Schlentrich

Green is Good

As a hospitality management student, I am constantly surrounded by inspirational professors whose enthusiasm for the industry is captivating and contagious. This passion is strongest from my mentor Professor Udo Schlentrich.

From day one, when I walked into his Introduction to Hospitality Management course, I was hooked. Now, two years later, another fire has been lit, this time surrounding the increasingly important issue of sustainability and green practices in the lodging industry.

While the green lodging movement started nearly two decades ago, the current impact of global warming brings a new urgency to the industry to become environmentally friendly.

Lodging facilities are already experiencing savings from energy efficiency measures and increased profits generated by visits from eco-friendly patrons. But, they will also soon experience substantial benefits from the protection and preservation of arguably their most precious resource, land.

With green and sustainable practices being the future of the hospitality industry, conducting research in this area allows me the privilege of contributing new knowledge and increasing awareness, and gives me a great advantage heading into the workforce.

Megan Delaney considers a green future for the hospitality industry at the Parents Association Undergraduate Research Symposium on Friday, April 25.
Honors English Undergraduate Research Conference

Friday, April 25
1:00–5:00 p.m.
Hamilton Smith, English Department

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

Nathan Borgman
International Affairs and English
Love Magic Sex Fracas: Poems
Adviser: Mekeel McBride

Melissa DaCosta
English Literature
Buddhism and Civil War in Sri Lanka: What Postcolonial Writing Can Teach Us
Adviser: Sandhya Shetty

Miranda Fillebrown
English Literature and Women’s Studies
What is So Queer About Shakespeare?: The Tragedy in Drag Comedies
Adviser: Douglas Lanier

David Kutz
English
This Is Enough: Essays on Life
Adviser: Mekeel McBride

Nathaniel Lord
English
Slow Burn and Dave Kutz Goes to Purgatory: Two Student Films Inspired by Maya Deren and the German Expressionist Movement
Adviser: Delia Konzett

Noel Tague
English/Journalism
Ghosts of the Tree: Poems
Adviser: Mekeel McBride

Molly Tetreault
English and Political Science
Robert Frost and the Politics of His Poetry
Adviser: David Watters

Psychology Department
George M. Haslerud Undergraduate Research Conference

Friday, April 25
1:00–4:00 p.m.
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. Students present their original research projects before an audience of UNH faculty, staff, graduate students, fellow undergraduates, friends, and family.

Geoffrey Arnold
Psychology
The Effects of Respectability-related Stereotypes on Victim Blaming in Cases of Sexual Assault
Adviser: Robert Eckstein

Kelly Bailey
Psychology
Predicting Evaluations of Medical Student Interview Skills from Emotional Intelligence and Physician Empathy Scores
Adviser: Rebecca Warner

Stephanie Bartone
Psychology and Justice Studies
Bullies, Victims, and Bully-victims: Behavioral Traits, Parental Influences, and Emotional Intelligence
Adviser: Donna Perkins

Amanda Bemis
Psychology
Analyzing the Traveling Salesperson Problem from a Developmental Perspective
Adviser: Brett Gibson

Rebekah Blanchard
Psychology
Emotional Personality Traits and Alcohol Use in Undergraduate Females
Adviser: Rebecca Warner

Karinne Brobst
Psychology and Justice Studies
Race Salience in the Courts: Does Sex Make a Difference?
Adviser: Ellen Cohn

Kristen Butterfield
Psychology
Direct and Relational Bullying: Traits of Victims as Compared to Students Who Are Not Bullied
Adviser: Rebecca Warner

Adina Cracut
Psychology
Benevolent and Hostile Sexism: Demographic, Attitudinal, and Behavioral Differences
Adviser: Ellen Cohn

David Creer
Psychology
Hold That Thought! Is Persistent Spiking in the Medial Temporal Lobe the Basis of Learning?
Adviser: Jill McGaughy

Craig Hanson
Psychology
Effects of Posterior Parietal Lesions on Sustained Attention
Adviser: Jill McGaughy

Danielle Israel
Psychology
Episodic Memory Use On College Exams
Advisers: Michelle Leichtman, David Pillemer

David Kispert
Psychology
Inferences About the Location of Food in Clark’s Nutcrackers (Nucifraga columbiana)
Adviser: Brett Gibson

Noel Tague
English/Journalism
Ghosts of the Tree: Poems
Adviser: Mekeel McBride

Molly Tetreault
English and Political Science
Robert Frost and the Politics of His Poetry
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David Kispert
Psychology
Inferences About the Location of Food in Clark’s Nutcrackers (Nucifraga columbiana)
Adviser: Brett Gibson
Nahal Saheli
Psychology and Spanish
Preventing Sexual Violence on College Campuses Using the Bystander Program
Adviser: Victoria Banyard

Kimberly Voorhies
Psychology
Reversible Inactivation of the Rostral Intralaminar Thalamic Nuclei in Action Sequence Learning
Adviser: Robert Mair

Hannah Woodward
Psychology
Generalized Prejudice as a Summary of Prejudice Against Many Groups
Adviser: Rebecca Warner

Alicia Shotwell
Philosophy and Political Science
Language, Law, and Native American Identity
Adviser: Willem De Vries

Marc Sklar
Philosophy
Nietzsche on Truth
Adviser: Drew Christie

Kyle Spoor
Philosophy
Sartre's Conception of Authenticity
Adviser: Willem De Vries

Christopher Wells
Philosophy
Ethical Adorno?
Adviser: David Hiley

Ryan Haley
Biochemistry
Biochemical Surveillance of Drug Resistant Malaria in Peru
Adviser: Louis Tisa

Leolene Jean
General Biology
Molecular Diversity and Functional Analysis of the Opsin Genes Expressed in Daphnia pulex
Adviser: W. Kelley Thomas

Elise Koob
Marine and Freshwater Biology
Somatic Condition of Atlantic Herring
Adviser: Maryellen Lutcavage

Sharmistha Mitra
Molecular, Cellular, and Developmental Biology
Identification of Growth Conditions That Affect the Formation of a Truncated Poly(A) Binding Protein in Saccharomyces cerevisiae
Adviser: Clyde Denis

Keith Morley
Biochemistry
Antibiotic Resistance and Pleiotropy: The Search for Weak Links in a Chain of Adaptation
Adviser: Vaughn Cooper

Chelsea Vario
Environmental Sciences
Optimization of a Method for Measuring the Enzyme Activity of Ectomycorrhizal Root Tips
Adviser: Serita Frey

Nahal Saheli
Psychology and Spanish
Preventing Sexual Violence on College Campuses Using the Bystander Program
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Chelsea Vario
Environmental Sciences
Optimization of a Method for Measuring the Enzyme Activity of Ectomycorrhizal Root Tips
Adviser: Serita Frey

17th Annual COLSA Undergraduate Research Conference

Saturday, April 26
7:45 a.m.–2:00 p.m.
New England Center

Student presentations at the 17th Annual COLSA URC are based on research conducted in any of the college's departments and run the full gamut of research found in the college, from field studies and genomics to developmental and molecular biology. A number of studies are collaborative efforts between work here at UNH and work carried out in foreign countries.

Oral Presentations

Chelsea Cunard
Environmental Sciences
Is Patience a Virtue? Succession, Light, and Death in Invasive Glossy Buckthorn (Frangula alnus)
Adviser: Thomas Lee

Lisa Green
Philosophy and Justice Studies
Nietzsche and the Political
Adviser: David Hiley

Patrick Ryan
Philosophy
Foucault on Modernity
Adviser: David Hiley

David Samra
Philosophy
Popper on the a priori
Adviser: Willem De Vries

Ryan Haley
Biochemistry
Biochemical Surveillance of Drug Resistant Malaria in Peru
Adviser: Louis Tisa

Leolene Jean
General Biology
Molecular Diversity and Functional Analysis of the Opsin Genes Expressed in Daphnia pulex
Adviser: W. Kelley Thomas

Elise Koob
Marine and Freshwater Biology
Somatic Condition of Atlantic Herring
Adviser: Maryellen Lutcavage

Sharmistha Mitra
Molecular, Cellular, and Developmental Biology
Identification of Growth Conditions That Affect the Formation of a Truncated Poly(A) Binding Protein in Saccharomyces cerevisiae
Adviser: Clyde Denis

Keith Morley
Biochemistry
Antibiotic Resistance and Pleiotropy: The Search for Weak Links in a Chain of Adaptation
Adviser: Vaughn Cooper

Chelsea Vario
Environmental Sciences
Optimization of a Method for Measuring the Enzyme Activity of Ectomycorrhizal Root Tips
Adviser: Serita Frey
Taking Action

This semester I’m working with Research Associate Professor Cameron Wake to develop a Climate Action Plan for UNH. This entails finding and analyzing strategies for reducing the University’s carbon dioxide emissions.

Coming from a family with sustainable values has led to my interest in working to make UNH more energy efficient. My grandfather started my town’s Recycling Transfer Facility more than 40 years ago. As a youngster, on Saturday mornings I helped sort recyclables at the facility. My family’s commitment to creating an energy-efficient home means we use radiant heat and solar panels. And, as the story goes, my parents wanted a small wind turbine to produce energy for our house, but unfortunately the town would not allow them.

Because ultimately reducing UNH carbon dioxide emissions will require the participation of everyone at the University, another part of my work on the Climate Action Plan involves outreach—bringing the research findings out to the University community.

Becca brings the Climate Action Plan for UNH: Analysis, Collaboration, and Implementation to the Interdisciplinary Science & Engineering Symposium at Kingsbury Hall on Wednesday, April 23, and the Vice President’s Symposium Poster Session A at the MUB on Friday, April 25.
Christopher Connors
Biochemistry
*The Genetics of Atherosclerosis in Pigeons* (Columba livia)
Advisers: Janet Anderson, Samuel Smith, Robert Taylor

Amy Cornell
Biochemistry
*The Isolation and Purification of Rana catesbeiana Cone Photoreceptor Cells*
Adviser: Rick Cote

Lauren Cunningham
Molecular, Cellular, and Developmental Biology
*Microtubular Orientation and Vesicle Trafficking in Caulerpa*
Adviser: Wayne Fagerberg

Ilona DuBuske
General Biology
*Towards the Production of a Hypoallergenic Birch: Cloning of the Birch Pollen Allergen B1 Gene*
Adviser: Subhash Minocha

Lina Faller
Computer Science
*A Computational Investigation of Repeating Elements in the Pseudomonas Fluorescens SBW25 Genome*
Advisers: Philip Hatcher, W. Kelley Thomas

Christopher Filler
Biochemistry

Bridget Huysman
Spanish and Biology
*Fat Cell Development in the Presence of Chemical Fire Retardants (PBDEs)*
Adviser: Deena Small

Shawna Fox
Biochemistry
*Jagged-1/Notch Interactions in Adipogenesis*
Adviser: Deena Small

Michael Wilmot
Biochemistry

Mihael Fremat

Takayoshi Kosugi

Bernardine Schultz
Biochemistry and Molecular Biology
*Identification of Gonadotropin Alpha Subunit in Sea Lamprey*
Adviser: Stacia Sower

Jordan Goodrich
Environmental Sciences
*The Effects of High Ozone Episodes on Temperate Wetland Plants*
Adviser: Ruth Varner

Ashley Green
Environmental Sciences
*Fluorescent Tracking to Observe Dispersal Patterns of Wood Frog (Lithobates sylvaticus) and Green Frog (Rana clamitans) Metamorphs*
Adviser: Kimberly Babbitt

Cormac Griffin
Environmental Conservation Studies
*Is Hemlock-Hardwood Forest Resistant to Exotic Invasive Plants? Glossy Buckthorn in the College Woods Natural Area, Durham, N.H.*
Adviser: Thomas Lee

Stephen Hennigar
Nutritional Sciences
*Exposure to Flame Retardants Promotes Increased Consumption of Simple Sugars*
Adviser: Anthony Tagliaferro

Kyle Hoffman
Environmental Sciences
*Watershed Characteristics’ Effects on Stream Chemistry*
Adviser: William McDowell

Sanjuro Jogdeo
Molecular, Cellular, and Developmental Biology
*Genome Wide Segmental Variation in Daphnia pulex*
Adviser: W. Kelley Thomas

Andrea Karambelas
Plant Biology
*Establishing a Collection of Arabidopsis thaliana Palmitoyltransferase Mutants*
Adviser: Estelle Hrabak

Christian Klare
Biochemistry
*Association State of Insulin Under Formulation-like Conditions*
Adviser: Jennifer Durant

Nicole Lefebvre
Biochemistry

Jennifer Mahoney
Microbiology
*Evaluation of the Virulence of the Human Pathogen Vibrio parahaemolyticus Isolated from the Great Bay Estuary*
Adviser: Cheryl Whistler

Lindsey Lemire
Crystal Leonard
Biochemistry
*The Effects of Drought Stress on CDPK Expression in Physcomitrella patens*
Adviser: Estelle Hrabak

Brian Luthi
Nutritional Sciences
*The Association between Chronic Disease Risk Factors and Prescription Medication Use of Young Adults*
Adviser: Jesse Morrell

Munevver Makinistoglu
Molecular, Cellular, and Developmental Biology
*Production of Decaffeinated Tea Plants*
Adviser: Subhash Minocha

Margret Mansfield
Microbiology
*Tracking the Timeline of the Progression of Verticillium Wilt Infection in Susceptible and Resistant Plants of Mentha longifolia*
Adviser: Thomas Davis

Adam Mirando
Biochemistry
*Chemical Flame Retardants: Possible Disruptors of Insulin Sensitivity and Production in Rats*
Adviser: Anthony Tagliaferro
Andrew Morbey
Biochemistry  
Phosphodiesterase 6 gamma Inhibitory Subunit Expression Optimization, Purification, and Impact of 6-His tag on Activity of PDE6  
Adviser: Rick Cote

Audrey Nailor  
General Biology  
The Survival of the Fantastic: The Evolution of Pelagicaballus Devius and Creative Integration in the Life Sciences  
Adviser: Jessica Bolker

Katrina Olson  
Biochemistry  
Is the Truncated Variant of Clam Mortalin Protein Responsible for Clam Leukemia?  
Adviser: Charles Walker

Stephen Perros  
Biochemistry  
Characterizing the Transport Mechanism and Function of the Jagged1 Intracellular Domain  
Adviser: Deena Small

Lauren Perry  
Brian Schuster  
Microbiology  
An Experimental Evolution for Symbiosis Revolution  
Adviser: Cheryl Whistler

Bethany Reutemann  
Biochemistry  
A Study of the Distribution of Actin Filaments in the Growing Tips and Mature Regions of the Coenocyte C. mexicana  
Adviser: Wayne Fagerberg

Valerie Schoepfer  
Environmental Sciences  
Leaf Leaching as a Source of Carbon and Nutrients in Tropical Streams  
Adviser: William McDowell

Lauren Schweizer  
International Affairs and Environmental Conservation Studies  
Stream Size and Fish Density Controls Retention Efficiency of High-quality Terrestrial Subsidies in Neotropical Headwater Streams, Costa Rica  
Adviser: William McDowell

Kenyon Stratton  
Wildlife Management  
Nest Site Selection by Cavity-Nesting Birds Based on Habitat Type  
Adviser: Kimberly Babbitt

Paul Sweeney  
Molecular, Cellular, and Developmental Biology  
The Arabidopsis HUS2 Locus Encodes a Key Regulator of the DNA Damage Response  
Adviser: Kevin Culligan

Brian Thomson  
Biochemistry  
In Vitro Wound Healing Rate of Endothelial Cells Under Hyperglycemic and Hyperlipidemic Conditions  
Adviser: Thomas Foxall

Shari Davis  
Nursing  
Malaria Prevention Efforts: A Descriptive Study in the Afigye-Sekyere District of the Ashanti Region of Ghana  
Adviser: Gene Harkless

Marisha Florissant  
Nursing  
Critical Care Nurses Perspectives Toward End-of-Life Care in the Intensive Care Unit  
Advisers: Joyce Blood, Gerard Tobin, Carol Williams-Barnard

Jennifer Gordon  
Nursing  
Home Symptom Regulation: Perceptions, Practices, and Needs of Congestive Heart Failure Patients  
Advisers: Joyce Blood, Gene Harkless, Carol Williams-Barnard

Allison Lane  
Nursing  
The Knowledge and Attitudes Regarding Pain of Direct Entry Masters in Nursing Students and Baccalaureate Students at a Rural New England University  
Advisers: Joyce Blood, Susan Fetzer, Carol Williams-Barnard

Margaret Peery  
Nursing  
Cardiovascular Disease Knowledge, Risk Factor Identification, and Sources of Information Among College Students  
Advisers: Joyce Blood, Susan Fetzer, Carol Williams-Barnard

Emily Roberts  
International Affairs and Nursing  
Nurses Performing Triage in Uganda: Decision-Making in Low Resource Settings  
Adviser: Gene Harkless

**Mary Louise Fernald Nursing Research Symposium**

**Wednesday, May 7**  
8:00 a.m.–3:30 p.m.  
Memorial Union Building, Granite State Room

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

**Julie Anastasia**  
Nursing  
The Lived Experience of Adults Diagnosed with Attention-Deficit Hyperactivity Disorder  
Advisers: Joyce Blood, Raelene Shippee-Rice, Carol Williams-Barnard

**Ashley Barbour**  
Nursing  
The Work Experience of Ashanti Midwives: Understanding Satisfaction and Challenges of Practice  
Adviser: Gene Harkless
Chemistry Department Poster Exhibition

Friday, May 9
2:30–4:00 p.m.
Parsons Hall, Iddles Wing

The Chemistry Department Poster 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 advisor.

Jay Agarwal
Chemistry
*The Questor Project: A Graphical Interface for Data Manipulation and Analysis*
Advisers: Christopher Bauer, William Kilner

Aida Ajaz
Chemistry
*Advances in Graphite-Sensitized Microwave Flash Pyrolysis*
Adviser: Richard Johnson

Justin Pleva
Chemistry
*Calibration of a New Cavity Ring Down Aerosol Extinction Spectrometer with Laboratory Generated Aerosols*
Adviser: Margaret Greenslade

Jennifer Pollock
Chemistry
*The Effects of Microwave Radiation in the Reduction of Acenes*
Adviser: Glen Miller

Corinne Sadlowski
Chemistry
*Diastereoselective Control Applied to the Tandem Chain Extension Methodology of Alpha-Carboxyester Imides and Bis-Imide Precursors*
Adviser: Charles Zercher

Whittemore School of Business and Economics
Paul J. Holloway Prize

University-wide Innovation-to-Market Competition
Championship Round

Wednesday, May 14, 2008
2:00–4:00 p.m.
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 judges made up of industry leaders. 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.
“I’m an outdoors person. I love being in the woods,” says Rich Rosencrans, a 2007 UNH alum who grew up in New Jersey and enjoyed vacationing with his family in New Hampshire. “I also always wanted to do something to make a difference and help save the environment.”

Today Rosencrans is living his dream, working as a civil engineer on stream restoration and researching ways to reduce river flooding in the Granite State. “I found just what I was looking for right out of college, and UNH helped me get here,” says Rosencrans from his office at Gomez & Sullivan, a small consulting firm in Weare, N.H., where he works as a water resource engineer.

While engineering might be considered a hot field with no shortage of talented candidates, Rosencrans knew that he could offer potential employers “something extra” to help him seal the deal. That something extra: real-world experience. For his senior civil engineering project, which he presented at the Undergraduate Research Conference (URC), Rosencrans had teamed up with classmates and the New Hampshire Department of Environmental Services to find ways to reduce river flooding at the Kelley’s Falls dam in Goffstown, where the Piscataquog River empties into the Merrimack.

“We built a computer model of the river with a hydraulic modeling program called HEC-RAS, which is commonly used in water resources engineering, and we presented our models and analysis at URC,” recalls Rosencrans. “During my interview with Gomez & Sullivan, they were very impressed by my experience with the program as well as by my contacts with state officials. I know that my research was a key experience that helped me get hired.”

While the research itself was certainly invaluable, Rosencrans and his team developed other essential skills from their URC experience. “Presenting at URC made us comfortable articulating information quickly and effectively,” he notes. This came in especially handy when Rosencrans and his team were required to present on a larger scale to the New Hampshire Department of Transportation, and today as Rosencrans works with clients and colleagues.

Rosencrans, who just finished a dam breach analysis of a dam on the Pemigewasset River, now uses hydraulic modeling and the skills he developed at UNH on a regular basis to explore questions about flooding in New Hampshire. As all Granite Staters know, identifying areas that may be threatened by high water levels is critically important, perhaps more now than ever.
On Wednesday, April 9, eight students from the University of New Hampshire shared their innovations and discoveries with state legislators at the annual Legislative Breakfast in Concord, N.H.

This year’s participants represented an array of research, scholarship, and expressive art (see Naked Art events) ranging from particle physics and environmental conversation, to Aristotelian rhetorical techniques and athletic training.

Student Innovation on Display

2008 Legislative Breakfast Presenters

Silas Archambault ’08
Newmarket, N.H.
Amtrak Downeaster Summer 2007

Karen Bailey ’08
Middletown, Penn.
Analysis of the Effect of Bicycle Seat Height on Quadricep and Hamstring Activity

Tom Faiella ’08
Northwood, N.H.
In the Matter of Cicero and Aristole, et al. versus Modern Courtroom Rhetoric

Kirsten Hildonen ’08
Londonderry, N.H.
Film Exhibition in Manchester, N.H.: Movies as Leisure for an Industrial Working Class

Trevor Mauck ’08
Deerfield, N.H.
The Legitimacy of the Federal Legislative Powers in Morocco post-Alternance

Morgan O’Neill ’09
Monson, Mass.
Using the Moon to Provide Accurate Pointing for the IBEX Star Sensor

Anna Peterson ’08
Peterborough, N.H.
Women Who Flew Military Aircraft in Second World War Britain

Emily Roberts ’08
El Segundo, Calif.
Triage Nursing in Uganda: Decision-making in a Low-resource Setting

“Who rides the Amtrak Downeaster and why?” Sociology major Silas Archambault ’08, a native of Newmarket, N.H., surveyed hundreds of riders to learn more about their motivation for opting for the train, as well as the types of trips they were most likely to take. Using a grant from the Hamel Center for Undergraduate Research, Archambault worked with environmental conservation professor John Carroll and Stephen Pesci, the special projects manager for UNH campus planning and transportation.
The Undergraduate Research Conference (URC) distributed sixty-nine cash awards to students for outstanding presentations at URC ’07. Fifteen students received honorable mentions.

Cash awards totaled $24,600. Sponsors included 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; the College of Life Sciences and Agriculture; the College of Engineering and Physical Sciences Alumni Association; the Center for International Education; and Phi Beta Kappa.

Visit the URC Web site to view the award-winning presentations at www.unh.edu/urc/index.cfm.

The following presenters received awards of excellence:

Michael Allard ’07
Kim Morris ’07
Katie Brown ’07
Tim Corrigan ’07
Amanda Loughlin ’08
Danielle Laroche ’08
Lonni Peterson ’08
Students Without Borders—Helping Niger

Melissa Allen ’09
Calcium oxalate as an Indicator of Stress on Two Sites on Mount Moosilauke

Christopher Anason ’07
Studying the Effects of Road Salt Spray and Runoff on the Foliage and Growth of White Pines

Emily Bolton ’07
Defining Unwanted Sexual Experiences and Consent

Karinne Brobst ’07
Maria Crossman ’08
Danielle DiFranco ’08
Allyssa Lanza ’07
An Implicit Measure of Victim/Perpetrator Responsibility: The Effect of Reputation

Amanda Brown ’08
Don Carlson ’07
Dana Filoti, Graduate student
Dependence of Crystal Orientation on Composition in Silver-Silicon Composite Thin Films

Kelly Byron ’07
Navigating Your Way Through Health Care

Emily Carter ’07
Verb Tense as a Predictor of Reader Reactions to Autobiographical Narratives

Andrew Clements ’07
Tiffany D’Amour ’07
Lisa Damiano ’07
Kathy Dietz ’07
Shawn Dupont ’07
Christopher Getman ’07
Steve Granese ’07
Michael Olson ’07
Jessica Tokson ’07
Bret Tolivaisa ’07
Ed Viel ’07
Amalia Wasiiski-Kuhn ’07
2006-07 UNH WERC Project—Microbial Fuel Cells

Lena Collins ’07
The Effect of the Invasive Seaweed, Caulerpa taxifolia, on Native Species Interactions in St. George’s Basin, Australia

Lena Collins ’07
Cormac Griffin ’08
Elizabeth Joseph ’08
Community Dinners: Feeding Folks with Sustainability and Nutrition

Kristopher Cui ’07
ASTM Biodiesel Gas Chromatograph Testing and Automation of Biodiesel Processor

Nicole Eckert ’07

Nicole Finitsis ’09
Thompson School Community Leadership Program Portfolio Presentations

Derek Hubbard
CAFTA: Reasons for Resistance

Daniel Jasinski ’07
The Severing of the Relationship Between the Catholic Church and the French State

Elyse Johnson ’07
Expelling Dictatorial Influences from Chilean Education

Adrian Kerrison ’07
Taking it on in Communication: Photography, Humor, Music, and Sports—The Three People You’ll Meet at a Hockey Game

Mark Kilens ’07
Linking Market Valued Community Skill Profiles with Corporate Outsourced Functions to Identify Financially Attractive Sourcing Targets

Joe Kiley ’07
Jonathan Zink ’07
Carpal Tunnel Syndrome Early Warning System

Ginny King ’07
Bone Health in the College-Age Population

Kraig Lamper ’07
Kant’s Thing in Itself

Michael Luz ’07
Performative Identity and Authenticity in The Great Gatsby

Melissa Mangold ’07
Dating Abuse in College Relationships: A Qualitative Study
Elizabeth McFadden ’07
Living on the Edge: the Staffordshire Moorlands Pan and Life Along Hadrian’s Wall

Michelle Mitchell ’07
“AME,” A Referential Database of the City of Manchester, New Hampshire, 1818–1850

Francoise Morison ’09

Laura Palombo ’07
The Effects of a Long Distance Run on Creatine Kinase Levels 24, 48, and 72 Hours Post-Run

Nicholas Perros ’07
The Regulation of Phosphodiesterase-6 by Glutamic Acid-Rich Protein-2

Katherine Potter ’10
A Man and The Moon

Bligh Reynolds ’07
Power and Practice: Women Working in the Community

Christa Ricker ’09
Transitioning to College Using Different Pedagogical Approaches

Alicia Shotwell ’08
Political Science: Conflict, Famine, and Refugees A Study of Increased Nuclear Tensions Between the United States and North Korea

Michael Simmons ’07
Determining the Feasibility of a UNH Sugarhouse

Alison Spruce ’07
Paleomagnetic Analysis of the Chickaloon Formation Ashes: Implications for Dating the Paleocene-Eocene Boundary

Carli Stevenson ’07
Women’s Studies Works: Demonstrations of Community Activism

Sean Tandy ’09
The Hutchinson Family Singers and American Protest Song

Derek Thibault ’07
Isolation of Arabidopsis thaliana Palmitoyltransferase Mutants

Kimberly Toth Watson ’07
Danielle Marie Thompson: Working Through Memories

Jennifer Towle ’07
Bio-adhesion: Search for Vitronectin in Caulerpa

Rachel Umerberger ’07

Hannah Varn ’07
Regulative Ideals: A Practical Approach to Global Warming

Jessica Williams ’07
Slouching Towards Babel: Language Policy, Linguistic, Identity, and Social Cohesion in the European Union

The following presenters received honorable mentions.

Jessica Bean ’07
The Effects of Sociodemographic Variations and Strain on the Self-Concept of Rural Single Mothers

Stephen Calcavecchia, Jr. ’07
Sounding Gay: An Acoustic Analysis of Gay Male Speech

Laura Carpenter ’07
Political Science: Civil Society at Home and Abroad—Wind: Bringing Renewable Energy Home

Adam Gould ’07
Immigration and Tolerance—Castilian Primacy: Exploring the Role of Minority Languages in Peninsular Spanish

Nichole Guenard ’07
Sexually Explicit Advertisements: Does Belief in Rape Myth Differ?

Kirsten Hildonen ’07
The Spies Who Saw Through Me

Stephanie Hueter ’07
Overcoming Adversity: The Struggle to “Girlfight”

Myra Khan ’07
The Weight of Words: the Construction and Implications of Genocide Discourse in Bosnia and Sudan

Tavia Lee-Goldstein ’09
Paper Hero: The Story of Origami Boy

Devon Mercer ’08
Obedience Only to God: The Trial of Susan B. Anthony

Jacqueline Quintal ’07
Entertaining the Cold War

Brian Rebholtz ’07
Behold the Virgin: Examining the Interpretation and Negotiation of the Sacred in Marian Apparitions

Alice Sheehan ’07
Bringing up Incentives: A Look at the Determinants of Poverty

Emily Soderman ’07
Political Participation in Democratic States—The Rise of the Far-Right: The French Answer to its Identity Crisis

Juliet Tarantino ’07
Growing Out of Poverty—Profitable Business, Worthless Language: Commercial Success and Rejection of Tradition in Otavalo, Ecuador
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. As 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 & 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.

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.

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**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.”
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.

Read more at www.unh.edu/inquiryjournal.

Links to research opportunities

Centers and Institutes at UNH
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

The URC Planning Committee
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University of New Hampshire Alumni Association
and the
University of New Hampshire Foundation
Acknowledgements

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 2008 happen.

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Office of the Vice President for Student and Academic Services
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College of Engineering and Physical Sciences (CEPS)
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College of Life Sciences and Agriculture
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Environmental Research Group
Hamel Center for Undergraduate Research
Institute for the Study of Earth, Oceans, and Space
Memorial Union Building Administrative Staff
New Hampshire Space Grant Consortium
Office of the Vice President for Research
The University Honors Program
The University Writing Programs
UNH Media Relations
UNH Photographic Services
UNH Printing Services
UNH interns Brittany Pinksten ’10 and Megan Zerega ’10
Web Solutions
Whittemore School of Business and Economics Marketing Workshop
Student Teams—Fall ’07 and Spring ’08 semesters

2008 Conference Planning Committee:
Martha Barker, Graphic Designer, Editorial & Creative Services
Erin Bell, Assistant Professor, Department of Civil Engineering
Tracey Bentley, Writer/Editor, Editorial & Creative Services
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Cameron Wake, URC Planning Committee Chair, Senior Faculty Fellow, Office of the Associate Vice President for Research and Outreach Scholarship, and Research Associate Professor, Climate Change Research Center
Julie Williams, Associate Vice President, Research and Outreach Scholarship

2008 URC Event Coordinators
Mike Annicchiarico, Student Composers’ Concert
Erin Bell, Debra Johnybear, Jeff Melton, and Ruth Varner, Interdisciplinary Science and Engineering Symposium (ISE)
Janice Chadwick, Psychology Department George M. Haselrud URC Grant Cioffi, Seacoast Reads Exhibition
Lynne Cooper and Lara Gengarelly, Parents Association Undergraduate Research Symposium
Jane Dufresne, Mary Louise Fernald Nursing Research Symposium
Marianne Fortescue, UNH Office of Community Service Partnerships
Serita Frey, 17th Annual COLSA Undergraduate Research Conference
Kate Hanson, Thompson School Community Leadership Program
David Kaye, The Naked Arts: Creativity Exposed!
Jessie Knapp, Graduate Research Conference (GRC)
Delia Konsett, Honors English Undergraduate Research Conference
Trevor Mauck ’08, Philosophy Department URC
Catherine Mazur and Jennifer Moses, Senior B.A., B.F.A. and M.F.A. Exhibition Preview Reception
Cynthia Nizzari-McClain and Mike Merenda, Whittemore School of Business and Economics Paul J. Holloway Prize University-wide Innovation-to-Market Poster Session
Dan Reagan, UNH Manchester Undergraduate Research Conferences
Cindi Rohwer, Chemistry Department Poster Exhibition
Lucy Salyer, History Department URC
Neil Vroman, College of Health and Human Services Grimes Award Competition
“The most memorable aspect of my involvement in the URC is watching the development of the students as they realize the seriousness and benefits of the conference.”