“Having the opportunity to share my academic and professional achievements with my parents was fantastic. I hope it gave them something to show for their investment in my future!”

“I will use many of the skills I learned in class—in the future and throughout my career.”

“The undergraduate research experience is one of the main reasons I chose to attend UNH. I gained real-life experience that you just cannot get in a classroom alone.”
A welcome to participants and attendees

Welcome to the 14th annual celebration of research and discovery at the University of New Hampshire. The 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 as a University-wide effort in the spring of 2000 has blossomed into an annual tradition that puts UNH students in the spotlight. Our conference is one of the largest and most diverse in the nation, and this year marks another record in participation. More than 1,300 students will present their findings at both the Durham and Manchester campuses, and represent academic achievements in every college and school.

This extraordinary learning experience helps students build the knowledge, skills, and confidence to pursue graduate studies and meaningful careers. The URC is a shining example of our students’ success and discovery-based education at UNH.

Whether your visit includes a poster session, a formal presentation, an art exhibit, or a creative demonstration, we are confident that you will be impressed with the participants’ knowledge and understanding. Thank you for your interest in, and support of, our remarkable students.

Sincerely,

Mark W. Huddleston, President

John D. Aber, Provost
Welcome to our springtime celebration of academic success and achievement at the University of New Hampshire. We take special pride in the efforts of our students and in the dedication of the faculty who mentor and guide them. A hallmark of a UNH education is the opportunity to engage in hands-on research with faculty scholars.

This year, more than 1,300 UNH students mentored by more than 325 UNH faculty members will present their research and scholarship. Presentations will represent many disciplines as well as multidisciplinary learning communities where empirical research, engaged scholarship, and creative scholarship result.

Our undergraduate students also have this unique opportunity to gain essential skills to help them pursue graduate study, learn how to collaborate across disciplines, pursue meaningful careers, and make a difference in the world. Faculty members enjoy mentoring students, and report that working with students strengthens their teaching and research.

One of our goals at UNH is to provide a unique opportunity for undergraduate students to inquire, learn, discover, and engage. For many, the URC is their first opportunity to showcase their work to a much broader audience. They share the results of their scholarship with fellow students, faculty, staff, family members, federal and state agency personnel, business and industry representatives, and members of our local community. This faculty-student partnership and the varied audiences to whom they present are vital to enriching and bringing new learning to life, which often leads to new areas of inquiry.

Please join us in thanking each student presenter and every faculty mentor who is making this great event possible. We encourage you to read the posters, listen to the presentations, and ask questions of our students. We are confident you will be impressed with what you learn and we look forward to your active engagement with the University of New Hampshire!

Julie E. Williams, Senior Vice Provost, Engagement and Academic Outreach

Lynne D. Cooper, Chair, URC Planning Committee
## URC 2013 Contents

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### Friday, April 12 Events
- 2013 Senior B.A. & B.F.A. Exhibition and M.F.A. Thesis Exhibition Preview Reception

### Monday & Tuesday, April 15–16 Events
- Graduate Research Conference (GRC)

### Tuesday, April 23 Events
- UNH Manchester URC Oral Presentations

### Wednesday, April 24 Events
- Thompson School Community Leadership Program
- UNH Office of Community Service Partnerships
- The Naked Arts—Creativity Exposed! (Act I)
- Paul College of Business and Economics University-wide Paul J. Holloway Prize Innovation-to-Market Competition
- Charles & Miriam Nelson Poster Round
- Interdisciplinary Science and Engineering Symposium (ISE)
- UNH Manchester URC, Poster Presentations

### Thursday, April 25 Events
- UNH Manchester URC, Cinema Arts Day
- The Naked Arts—Creativity Exposed! (Act II)
- History Department Undergraduate Presentations
- Thompson School Undergraduate Student Showcase

### Friday, April 26 Events
- UNH Manchester URC Technology Day Engineering Technology Senior Projects
- UNH Manchester URC Technology Day Computing Technology Poster Presentations
- Parents Association Breakfast and Welcome with John Aber, UNH Provost; Debbie Dutton, Vice President for Advancement and President, UNH Foundation; and Cyndy Dow, Parents Association President
- Parents Association Undergraduate Research Symposium Oral Presentations, Session A
- Poster Presentations, Session A
- Oral Presentations, Session B
- Poster Presentations, Session B
- Oral Presentations, Session C

### Saturday, April 27 Events
- 22nd Annual COLSA Undergraduate Research Conference

### Events in May
- Chemistry Department Poster Exhibition
- Paul College of Business and Economics Paul J. Holloway Prize University-wide Innovation-to-Market Competition, Championship Round

### Additional Features
- Acknowledgments
- Student Index

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All events are free and open to the public.

Accessibility accommodation requests may be directed to Lynne Cooper at (603) 862-1997.
Friday, April 12
6–8 p.m.
2013 Senior B.A. & B.F.A. Exhibition and M.F.A. Thesis Exhibition and Preview Reception
Paul Creative Arts Center (6)
Museum of Art
(Exhibition runs April 13–May 17, 2013)

Monday & Tuesday, April 15–16
Monday 5–7 p.m.
Graduate Research Conference (GRC)
Poster Presentations
Hudleston Hall Ballroom (1)

Tuesday 9 a.m.–3 p.m.
Graduate Research Conference (GRC)
Oral Presentations
Holloway Commons (2)

Tuesday, April 23
10 a.m.–2 p.m.
UNH Manchester Undergraduate Research Conference
Oral Presentations
UNHM Auditorium

Wednesday, April 24
10:30 a.m.–Noon
Thompson School Community Leadership Program
Memorial Union Building (3)
Rooms 334/336
10:30 a.m.–Noon
UNH Office of Community Service Partnerships
Memorial Union Building (3)
Noon–2 p.m.
The Naked Arts—Creativity Exposed! (Act I)
Paul Creative Arts Center (6)
Museum of Art
Noon–2 p.m.
Paul College of Business and Economics University-wide Paul J. Holloway Prize Innovation-to-Market Competition
Charles & Miriam Nelson Poster Round
Peter T. Paul College (12)
2–5 p.m.
Interdisciplinary Science and Engineering (ISE) Symposium
Kingsbury and Morse Halls (8 & 9)

3:30–6 p.m
UNH Manchester Undergraduate Research Conference
Poster Presentations
UNHH Auditorium

Thursday, April 25
10 a.m.–1 p.m.
UNH Manchester Undergraduate Research Conference
Cinema Arts Day
UNHM Auditorium
12:30–2 p.m.
The Naked Arts—Creativity Exposed! (Act II)
Paul Creative Arts Center (6)
Hennessy Theatre
12:30–2 p.m.
History Department Undergraduate Presentations
Memorial Union Building (3)
Rooms 332, 338, and 340
5:30–7:30 p.m.
Thompson School Undergraduate Student Showcase
Cole Hall (Stacey’s) (11)

Friday, April 26
8 a.m.–5 p.m.
UNH Manchester Undergraduate Research Conference Technology Day Engineering Technology Senior Projects
UNHM Pandora Mill
Noon–5 p.m.
UNH Manchester Undergraduate Research Conference Technology Day Computing Technology Poster Presentations
UNHM Pandora Mill
10 a.m.–1:30 p.m.
Paul College of Business and Economics Undergraduate Research Conference
Peter T. Paul College (12)
9–9:30 a.m.
Parents Association Undergraduate Research Symposium Breakfast
Memorial Union Building (3)
Granite State Room
9:30 a.m.–3 p.m.
Parents Association Undergraduate Research Symposium Poster and Oral Presentations
Memorial Union Building (3)

12:15–1 p.m.
The Naked Arts—Creativity Exposed! (Act III)
Memorial Union Building (3)
Strafford Room
1:30–4 p.m.
College of Health and Human Services Grimes Undergraduate Research Competition
Pettee Hall, G-10 (10)
1:30–5 p.m.
Psychology Department George M. Haslerud Undergraduate Research Conference
Mankland Hall, Room 115 (5)
2–6 p.m.
Honors English Undergraduate Research Conference
Hamilton Smith Hall (4)
English Department
4–8:30 p.m.
Philosophy Department Undergraduate Research Conference
Mankland Hall G17 (5)
8 p.m.
Student Composers’ Concert
Paul Creative Arts Center (6)
Bratton Recital Hall

Saturday, April 27
7:45 a.m.–2 p.m.
22nd Annual College of Life Sciences and Agriculture (COLSA) Undergraduate Research Conference
Hudleston Hall Ballroom (1)
and Holloway Commons (2)

Friday, May 3
3–4 p.m.
Chemistry Department Poster Exhibition
Parsons Hall, Iddles Lobby (7)

Wednesday, May 9
12:30–6 p.m.
Peter T. Paul College of Business and Economics University-wide
Paul J. Holloway Prize Innovation-to-Market Championship Round
Holloway Commons (2)
Squamscott Room

All events are free and open to the public.
(Building numbers are bold and in parenthesis.)
BUILDING KEY

1. Huddleston Hall
2. Holloway Commons
3. Memorial Union Building (MUB)
4. Hamilton Smith Hall
5. Murkland Hall
6. Paul Creative Arts Center
7. Parsons Hall
8. Kingsbury Hall
9. Morse Hall
10. Pettee Hall
11. Cole Hall
12. Paul College

UNH Manchester
400 Commercial Street
88 Commercial Street (Pandora Mill)
Manchester, N.H.

For directions to UNH Manchester go to www.unhm.unh.edu/directions.html or call (603) 641-4321.
2013 Senior B.A., B.F.A. & M.F.A. Exhibition and Preview Reception

Friday, April 12
6–8 p.m.
Museum of Art
Paul Creative Arts Center

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

Bachelor of Fine Arts degree candidates:

Sarah Archer
Fine Arts, Ceramics
Adviser: Benjamin Cariens

Kathleen Brewster
Fine Arts, Drawing & Painting
Adviser: Grant Drumheller

Sarah Brewster
Fine Arts, Drawing & Printmaking
Adviser: Grant Drumheller

Cara Copeland
Fine Arts, Painting
Adviser: Craig Hood

Mary Duke
Fine Arts, Ceramics
Adviser: Jennifer Moses

Addie Fisher
Fine Arts, Photography
Adviser: Julee Holcombe

Emily Holland
Fine Arts, Ceramics
Adviser: Scott Schnepf

Sophia Lupi
Fine Arts, Photography
Adviser: Maryse McConnell

Loren Marple
Fine Arts, Painting
Adviser: Craig Hood

Samuel Rheame
Fine Arts, Painting
Adviser: Craig Hood

Paige Smith
Fine Arts, Painting
Adviser: Scott Schnepf

Brenna Thompson
Fine Arts, Photography
Adviser: Julee Holcombe

Graduate Research Conference (GRC)

Poster Presentations

Monday, April 15
5–7 p.m.
Huddleston Ballroom

The Graduate Research Conference (GRC) 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. Attending the GRC affords the entire university community the opportunity to participate in the graduate education experience.

Graduate Research Conference (GRC)

Oral Presentations

Tuesday, April 16
9 a.m.–3 p.m.
Holloway Commons

The Graduate Research Conference (GRC) 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. Attending the GRC affords the entire university community the opportunity to participate in the graduate education experience.

UNH Manchester Undergraduate Research Conference

Oral Presentations

Tuesday, April 23
10 a.m.–2 p.m.
University Center
Manchester

The UNHM Oral Presentations feature formal scholarly lectures and/or multimedia presentations reflecting the students’ research interests.

Zahra Essa
Biological Sciences
What’s in Your Water?
Adviser: Patricia Halpin

Josiane Gasana
Health Management and Policy
Military Drug Use in Vietnam
Adviser: John Resch
Stephen Gibson
Scott Webster
Biological Sciences
*The Killer That Doesn’t Kill: HIV on the Immune System*
Adviser: Patricia Halpin

Ryan Haggerty
History
*McCarthy and the Threat of Subversion*
Adviser: John Resch

Ryan Haggerty
History
*The Kansas-Nebraska Act and Reaction in the City of Manchester, New Hampshire*
Adviser: Robert Macieski

Thomas Hobbs
History and Political Science
*Freedom of Speech, the Dennis Case, and Assessment*
Adviser: John Resch

Thomas Hobbs
History and Political Science
*Dams, Property Rights, and Environmental Awareness in Southern New Hampshire during the late 18th and 19th Centuries*
Adviser: Robert Macieski

Aaron Kinne
Biological Sciences
*Environmental Impact and Physical Growth of the UNH at Manchester Vertical Garden*
Adviser: Patricia Halpin

Valerie LaRochelle
Undeclared
*Origins of the National Defense Highway System*
Adviser: John Resch

Alexander Larochelle
Biological Sciences
*Vietnam War and the Media—Walter Cronkite*
Adviser: John Resch

Olivia Marchioni
Business
*Teenagers: 1950’s*
Adviser: John Resch

Elizabeth Mason
Rosanyi Rivera
Communication Arts
*Someone Call 911! The Important Steps to Follow in an Emergency*
Advisers: Patricia Halpin, Stephen Pugh

Justin Ross
Biological Sciences
*Post Tito Yugoslavia: Transitional Justice or Genocide*
Adviser: John Cerullo

Sean Schmidenberg
History
*The Killer That Doesn’t Kill: HIV on the Immune System*
Adviser: Anthony Tenczar

Morgan Curley
Community Leadership
*Buoy-bat for Baseball*
Adviser: Timothy Barretto

Maggi Hanson
Community Leadership
*Waysmeet Capstone Project*
Adviser: Timothy Barretto

Jeffrey Lutz
Community Leadership
*Elba’s Slow Shuffle*
Adviser: Timothy Barretto

Erin McKane
Community Leadership
*Play For Paws*
Adviser: Timothy Barretto

Gabrielle Moen
Community Leadership
*Higher Education as a Path to Success*
Adviser: Anthony Tenczar

Nicholas Pelrine
Community Leadership
*The ORYA Hockey Clinic*
Adviser: Timothy Barretto

Margaret Saliba
Community Leadership
*Volunteering with Adults with Developmental Disabilities on the UNH Campus*
Adviser: Timothy Barretto

Niklas Sigl
Community Leadership
*Todd’s 5K*
Adviser: Timothy Barretto

UNH Office of Community Service Partnerships

Wednesday, April 24
10:30 a.m.–Noon
Memorial Union Building

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.
The Naked Arts — Creativity Exposed

Act I

Wednesday, April 24
Noon–2 p.m.
Museum of Art
Paul Creative Arts Center

This event exposes the inner creative process of artists working in various disciplines. Presenters will describe the process, research, and other creative aspects undertaken to bring an artistic creation from initial inspiration to the stage or gallery. This may include a performance or excerpts from their work to illustrate their creative scholarship.

Sarah Archer
Fine Arts
Cosmos in Clay
Advisers: Jennifer Moses, Leah Woods

Cara Copeland
Fine Arts
The Still Life and Art History
Adviser: Jennifer Moses

Addie Fisher
Fine Arts
Photography
Adviser: Jennifer Moses

Loren Marple
Fine Arts
The Closeness of Distance: A Study in Shape and Color
Adviser: Jennifer Moses

Peter T. Paul College of Business and Economics
Paul J. Holloway Innovation-to-Market Prize Competition

Charles & Miriam Nelson Poster Competition

Wednesday, April 24
12–2 p.m.
Paul College, Room G35

This poster competition gives all teams entered in the Holloway Prize Innovation-to-Market Competition an opportunity to showcase their research into entrepreneurship. Teams have three minutes to present their business idea, followed by three minutes of Q and A with the judges.

Shawn Amburg
Entrepreneurial Studies and Management
U-Cycle
Adviser: Jay Berman

Paul Annand
Marketing

Hannah Shoer
Management and Marketing

Stephen Wolfenden
Finance and Management
The Aspire Golf Course
Adviser: Warren Daniel

Ethan Ash
Marketing

Kristopher Caron
Management and Finance

Joshua Hunt
Management and Spanish
LoTag
Adviser: Warren Daniel

Jessica Barbone
Finance and Management

Dana Magnant
Management
Riah: At-Home Hair Care
Adviser: William Hassey

Chelsey Bauer
Management

Ashley Gelinas
Management and Accounting

Isabelle Poulin
Finance and Management

Zachary Racine
Marketing
Sweet Nothings
Adviser: William Hassey

Ryan Belanger
Management

Joseph Franciosa
Undeclared

Daniel Imbriaco
Marketing and Management

Kelli King
Accounting and Management
Massachusetts Institute of Athletic Performance
Adviser: William Hassey

Jonathan Boghigian
Kevin Walker
Marketing and Management

Matthew Dario
Christopher Vahey
Management
Bid and Dine
Adviser: William Hassey

Raymond Boghos
Entrepreneurial Studies and Management
Boghos Properties
Adviser: Jay Berman

Geoffrey Bonewald
Management and Finance

Dana Haas
Jennifer Sheehan
Management

Nicolas Palmisano
Finance and Management
JobHawk
Adviser: Larry Spera

Laura Brooks
Accounting and Management

Calleigh Garland
Management

Alexander Hatch
Management and English Literature
ImproveU
Adviser: Warren Daniel
Garrett Buckley  
Finance  
Jaclyn Daigneault  
Michael Duncan  
Ryan Stevens  
Management  
GoBudz  
Adviser: William Hassey  
Andrew Burger  
Psychology  
James Scott  
Biology  
Collegejetski.com  
Adviser: Sanjeev Jha  
Craig Burgon  
Andrew Fuller  
Ellyse Guihan  
Management  
James Osten  
Finance and Management  
Campus Connection  
Adviser: William Hassey  
Bradley Calabro (graduate student)  
Adam Palmer (graduate student)  
DIYhub.co  
Adviser: M. Billur Akdeniz  
Kendra Carlson  
Entrepreneurial Studies  
Online Restaurant Consulting  
Adviser: Jay Berman  
Ryan Catalano  
Entrepreneurial Studies  
Stephen Maurice  
Finance  
Catalano Oyster Company  
Adviser: Fiona Wilson  
Paul Chiarantona  
Entrepreneurial Studies and Political Science  
Green Home Technologies  
Adviser: Jay Berman  
Ashley Clifford  
Marketing  
iDorm  
Adviser: Robert Gough  
Haley Clough  
Biomedical Science  
Mobile Operations  
Adviser: Joyce Stone  

Christopher Cober  
John Doisneau  
Marketing  
Hangr  
Adviser: Robert Gough  
Robert Cormier  
Management and Marketing  
Jenna Gao  
Gregory Poggi  
Management  
Nature’s Alley—Interactive Natural and Organic Food Market  
Adviser: Warren Daniel  
Chad Darcy  
Jeffrey White  
Entrepreneurial Studies  
Samuel Magnant  
Finance  
Real Time Inventory: Efficient Logistics for the Small Business World  
Advisers: Jay Berman, Robert Gough  
Mark Deschenes  
Benjamin Tasker  
Health Management and Policy  
Leo Sutera  
Economics  
Genetically Modifying a Bee  
Advisers: William Hassey, Leslie MacLeod  
Edward Donovan  
Environmental Conservation Studies  
Edward LaVilla  
Physics  
Marie-Eline Lepine  
Brady Page  
Entrepreneurial Studies and Management  
Marlee O’Neil  
Entrepreneurial Studies and Philosophy  
SunDensation: Modified Solar Distillation Unit  
Adviser: Jeffrey Sohl  
Courtney Firestine  
Entrepreneurial Studies  
Bradley Maxfield  
Entrepreneurial Studies and Finance  
Peter Maxfield  
Entrepreneurial Studies and Marketing  
The Variety Pack  
Adviser: Jay Berman  

Tyler Foote  
International Business and Economics and Management  
Levels  
Adviser: Jay Berman  
Jillian Galli (graduate student)  
Iryna McCauley (graduate student)  
Natasha Robinson (graduate student)  
Megan Murphy (graduate student)  
Conscious Clean  
Adviser: Marc Sedam  
Chakravarthy Gavini (graduate student)  
Brian Macaulay (graduate student)  
Slawomir Mielewczyn (graduate student)  
Daniel Mamede (graduate student)  
Computer Information Systems  
Parents Time Saver  
Adviser: Ludwig Bstieler  
Troy Goliber  
Finance  
Kasandra Michajlov  
Alexandra Robichaud  
Marketing  
Campus Closet  
Adviser: Warren Daniel  
David Grenaldo  
Entrepreneurial Studies and Finance  
Grenaldo Grocer  
Adviser: Jay Berman  
Megan Houstle  
Entrepreneurial Studies and Management  
Major Works  
Adviser: Robert Gough  
Zachary Hutton  
Entrepreneurial Studies and Finance  
Team Wheelhouse  
Adviser: Robert Gough  
Erin Jackson  
EcoGastronomy and Entrepreneurial Studies  
Dry Technology Business Plan: Revolutionizing the Textiles Market  
Adviser: Robert Gough
Kelly Johnson  
Marketing  

Joseph LaBombard  
Management  

Sarah MacLellan  
Marketing and Management  

U/TradeN  
Adviser: Warren Daniel  

Noah Kabbara  
Entrepreneurial Studies and Finance  

Perfect Present  
Adviser: Jay Berman  

Yuriy Kharin  (graduate student)  
Advise: John Merenda  

Jeffrey Lapak  (graduate student)  
Advance Apparel  

Adviser: Marc Sedam  

Craig Litherland  (graduate student)  
New Aneurysm Clip With Zero Image Artifact  
Adviser: Robert Gough  

Zechao Liu  
Economics  

Talker  
Adviser: John Merenda  

Dylan Manz  
Marketing and Entrepreneurial Studies  

RFID Student Cards  
Adviser: Jay Berman  

Kristin Mayo  
Marketing  

Kristin’s Gourmet Gluten-Free Bakery Café  
Adviser: Robert Gough  

Ashleigh McCarthy  
Finance and Management  

Sean Reagan  
Marketing  

Madison Sweeney  
Civil Engineering  

The Heat-O-Matic Coffee Mug  
Adviser: William Hassey  

Geoffrey Mishkin  
Nicholas Neville  
Cameron Saulnier  
Undeclared  

Andrea Nash  
Economics  

Jamaican Relief  
Adviser: Audrey Ashton-Savage  

Samuel Nute  
Marketing and Entrepreneurial Studies  

Urban Eats  
Adviser: Jay Berman  

James Osten  
Finance and Management  

Nightlife App  
Adviser: William Hassey  

Phillip Parsons  
Entrepreneurial Studies and Finance  

Northern Resort Cabins  
Adviser: Jay Berman  

Jeremy Patnaude  
Entrepreneurial Studies  

Timber-Frame Screen Houses  
Adviser: Jay Berman  

Sean Peters  
Entrepreneurial Studies  

Rent Right  
Adviser: Jay Berman  

Joel St. Jean  
Joshua Tozier  
Tianlin Wu  
Undeclared  

Craig Tyer  
Economics  

Tanzanian Sustainable Irrigation Project  
Advisers: John Merenda  

Kurt Steiner  
Entrepreneurial Studies  

The Brew House  
Adviser: Jay Berman  

Robert Verreault  
Entrepreneurial Studies  

Late Night Shuttle Bus  
Adviser: Jay Berman  

Evan Williams  
Finance and Entrepreneurial Studies  

Downtown Diner  
Adviser: Jay Berman  

Parker Woolley  
Undeclared  

Green Guard Hats  
Adviser: Diane Devine  

Taylor Wright  
Entrepreneurial Studies  

Wright Windows and Pressure Washing  
Adviser: Jay Berman  

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**Interdisciplinary Science & Engineering Symposium (ISE)**  

**Poster Presentations**  

**Wednesday, April 24**  

**2–5 p.m.**  

**Kingsbury Hall and Morse 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 opportunities in science and engineering at UNH. The program will include a poster session, refreshments, and an awards ceremony.  

Odin Achorn  
Chemistry  

Folding of Synthetic Polymer Chains Using Radically Exchangeable Alkoxyamines  
Adviser: Erik Berda  

Travis Adams  
Megan Hamilton  
Sonja Pape  
Civil Engineering  

Impact of Laboratory Aging Method on Properties of Asphalt Concrete  
Adviser: Jo Daniel  

Travis Adams  
Civil Engineering  

Demand-controlled Ventilation Using Cell Phone Signal Occupancy Detection  
Adviser: Tat Fu  

Christopher Alix  
Justin Nash  
William Wilkinson  
Electrical Engineering  

Electromagnetic Accelerator  
Adviser: Kent Chamberlin
Nathan Alix  
Electrical Engineering  
RFID Fish Tracker  
Adviser: Michael Carter

Christopher Allen  
Jennifer Barrett  
Patrick L’Heureux  
Matthew Morganelli  
Curtis Richards  
Civil Engineering  
Wooden Rollercoaster Track Design  
Adviser: Erin Bell

Michael Allen  
Ashton Cherry  
Adam Woodman  
Mechanical Engineering  
TurboJet Engine  
Adviser: Christopher White

Zachary Angelini  
Alyson Packhem  
Environmental Engineering  
Oxidation and Biofiltration to Remove Low Levels of Pharmaceuticals and Personal Care Products From Water Supplies  
Adviser: James Malley

Joshua Armstrong  
Nathaniel Fuller  
Corey Rumph  
Mechanical Engineering  
Lignocellulosic Ethanol Biorefinery  
Adviser: Christopher White

Brittany Artale  
Chemical Engineering  
Adhesion of Rolling Cancer Cells to E-Selectin Along the Interior of a Microchannel  
Adviser: Adam St. Jean

Nicholas Aubut  
William Holmes  
Abigail Jenkins  
Mechanical Engineering  
QuadSat B for the NASA Magnetospheric MultiScale (MMS) Mission  
Adviser: May-Win Thein

Eric Bajor  
Peter Brigham  
Amy Emmons  
Evan Jones  
Mechanical Engineering  
Ski Design and Fabrication  
Adviser: Todd Gross

Madelyn Ball  
Rebecca Cole  
Duncan Cromwell  
Ye Deng (graduate student)  
Per Lindgren  
Travis Maser  
Nicholas Sullivan  
Chemical Engineering  
Novel Enzyme Catalysts for Transesterification of Waste and Non-edible Oils  
Adviser: Palligarnai Vasudevan

Charles Bardwell  
Ronak Bhatia  
James Flynn  
Civil Engineering  
Analysis of Erosion and Accretion of Soil Near the Bulk Heads and Jetties in Hampton and Seabrook New Hampshire  
Advisers: Jennifer Jacobs, Chris Parrish, Shachak Pe’eri

Stephan Barkley  
Chemistry  
Polymer-based Indicators  
Adviser: W. Rudolf Seitz

Samuel Batton  
Patrick Kennedy  
Timothy Schroeder  
Electrical Engineering  
Software Defined Cellular Base Station  
Adviser: Nicholas Kirsch

Joshua Beaudet  
Michael Klempa  
Electrical Engineering  
SAS Test Tool  
Adviser: W Miller

Andrew Beland  
Chloe Garaghe  
Gregory Kopanski  
James Popovitch  
Timothy Roemer  
Mechanical Engineering  
Artificial Mitral Valve Flow Dynamics  
Adviser: Christopher White

Kyle Beland  
Jeremy Bibeau  
Christopher Gagnon  
Jacob Landry  
Mechanical Engineering  
Offshore Wind Turbine Array  
Adviser: Martin Wosnik

Kristen Berube  
Matthew Lavigne  
Stephen Racca  
Martin Ritsch  
Mechanical Engineering  
Continuous Bending Under Tension  
Advisers: Brad Kinsey, Ioannis Korkolis

Drummond Biles  
Mechanical Engineering  
Development of an Optical Calibration Facility at an Auroral Research Station  
Adviser: Marc Lessard

Drummond Biles  
Ryan Carlson  
Benjamin Gardell  
George Hotton  
Michael Lorenzo  
Sean McCann  
Newell Moser  
Trevor Mutch  
Alexander Rich  
Michael Stevens  
Goran Vidic  
Tyler Young  
Mechanical Engineering  
Thomas Kimsey  
Kyle Steike  
Electrical Engineering  
Society of Automotive Engineers Formula-1 Race Car  
Adviser: Todd Gross

Brendan Bishop  
Wenxin Du (graduate student)  
Matthew Sullivan  
Matthew Yeager (graduate student)  
Chemical Engineering  
Vanadium Oxide Nanomaterials for Supercapacitor Anode  
Adviser: Xiaowei Teng

Jonathan Bishop  
Justin Cannon  
Matthew Goepfert  
Michael Tucci  
Information Technology  
Federated Shibboleth Single Sign on  
Adviser: Scott Valcourt
Eryka Black
Timothy Osborn
Matthew Wilkening
Mechanical Engineering
Memorial Bridge Hydrokinetic Power
Generation: GHT & VFG
Adviser: Kenneth Baldwin

Christopher Blais
Chemical Engineering
Drop Deformation and Breakup Through a Sudden Constriction
Adviser: Nivedita Gupta

Braden Blanchette
Electrical Engineering
Water Flow Meter Network in the Great Bay
Adviser: Nicholas Kirsch

Frederick Bloy
Environmental Engineering
Solid, Sediment, and Groundwater Remedial Design Project
Advisers: Jean Benoit, Robert Henry

Christopher Boamah-Mensah
Mechanical Engineering
Lungs Project
Adviser: Greg Chini

Daniel Bolan
Computer Science
Rendering Adaptive Resolution Data Models
Adviser: Daniel Bergeron

Cameron Borgal
Electrical Engineering

Brian Gray
Shane Hedlund
Collin Huston
Sheldon McKinley
Frederik Meissner
Joseph Paulo
NASA USLI Rocket Competition
Adviser: May-Win Thein

Kyle Bouchard
Music Education

Brenna Cahill
Undeclared

Tiffane Cormier
Communication and English

Emily Donnery
International Affairs and Anthropology

William Morrison
English

Harmanpreet Singh
Biomedical Science

Peter Wilkinson
Environmental Conservation Studies
Expanding UNH’s Climate Action Plan: Saving Money and Reducing Emissions
Adviser: Cameron Wake

Nathaniel Bradley
Jason Coombs
Michael Kaminski
Clayton Niemiec
Civil Engineering
National Geo-wall Competition
Advisers: Jean Benoit, Majid Ghayoomi

Elizabeth Brady (graduate student)
Kelsey Packard
Chemistry

Austin Greigore
Undeclared
Understanding the Whirlpool Process in the Beer Brewing Industry by Monitoring Iso-Alpha-Acid Concentration
Adviser: Sterling Tomellini

William Breen
Tyler Janowski
Alexander Schwartz
Computer Science
Robotic Block Sorting
Adviser: Wheeler Ruml

Benjamin Briggs
Matthew McCluskey
Electrical Engineering
Closed Loop Current Sensor
Adviser: Kent Chamberlin

Victoria Brisson
Frederic Lusky
Ann Sager
Environmental Engineering

Evan Davenport
Civil Engineering
Rainwater Catchment System in Uganda
Adviser: Thomas Ballestero

Cameron Brochu
Daniel O’Donnell
Civil Engineering
Gilford, N.H. Bridge Reconstruction
Adviser: Charles Goodspeed

Christopher Brown
Scott Champagne
Graham Conforti
Dean Goodale
Stephen Griffin
Lane O’Connor
Spencer Yergeau

Frederic Lusky
Ann Sager

Evan Davenport
Civil Engineering

Sean Brown
Mary Donlon
Tristan Donovan
Amanda Green
James Halsey
Jonathan Tatone
Civil Engineering

Stephanie Brown
Thalia Valkanos
Environmental Engineering

Ethan Cote
Civil Engineering
Mitigation of Greenhouse Gas Emissions
Advisers: Kevin Gardner, Paul Kirshen, Alison Watts

Sophia Burke
Environmental Sciences
Acoustic Monitoring of Ebullitive Flux From a Mire Ecosystem in Subarctic Sweden
Adviser: Ruth Varner
Taylor Burton  
Ethan Carrier  
Maxwell Cooper  
Tyler Fenton  
Taylor Fittro  
Patrick Hornigan  
Civil Engineering  
I-93/Exit 5 Bridge Over N.H. Route 28  
Advisers: Robert Henry, Ricardo Medina

Elizabeth Cardin  
Chemical Engineering  
GC-MS Analysis of Extracted Hydrocarbons From Oil Shale by Pyrolysis Conditions  
Adviser: Jillian Goldfarb

Shaun Caron  
David Kurtz  
Paul Madea  
Mechanical Engineering  
Wave Energy at the Isles of Shoals  
Advisers: Kenneth Baldwin, M. Robinson Swift

Timothy Cava  
Anthony Coderre  
Logan Mower  
Douglas Nickerson  
Cameron Wichland  
Chemical Engineering  
Detect the CO2 Generation During the Electro-oxidation of Ethanol  
Adviser: Xiaowei Teng

Aidan Cecchetti  
Elizabeth Christmas  
James Flood  
Brianna Wentworth  
Environmental Engineering  
Design of Pressurized Diffused Aeration Systems to Remove THMs From Selected Springfield, MA Distribution Water Mains  
Adviser: Michael Collins

Aidan Cecchetti  
Environmental Engineering  
Evaluation of a Proposed Model for THM Removal in Drinking Water Treatment System Storage Tanks Using Spray Aeration  
Adviser: Michael Collins

Ana Celaya (graduate student)  
Pablo Yangali  
Chemical Engineering  
The Study of Pyrolysis Reactions of Biomass-coal Blends Using a Chromatography-mass Spectrometry.  
Adviser: Jillian Goldfarb

Joshua Chabot  
Michael Johnson  
Joseph Kelley  
Mechanical Engineering  
NASA Magnetospheric MultiScale (MMS) Mission TableSat IC  
Adviser: May-Win Thein

Ian Chase  
Environmental Sciences  
Snow Albedo and Snowpack Density  
Adviser: Serita Frey

Robert Chase  
Civil Engineering  
Rising Sea Level Impacts on Road Infrastructure in Coastal New Hampshire  
Advisers: Jo Daniel, Jennifer Jacobs, Paul Kirshen

Robert Chase  
Connor Western  
Civil Engineering  
Kingsbury-Parsons Pedestrian Bridge  
Adviser: Raymond Cook

Giorgi Chikhradze  
Ian Dorsey  
Joseph Miller  
Information Technology  
IPv6 to IPv4 Translation  
Adviser: Scott Kitterman

Thomas Chingas  
William Finneran  
Erik Poulin  
Devon Smith  
Civil Engineering  
Cass Pond Dam Rehabilitation  
Advisers: Thomas Ballestero, Grace Levergood (NHDES)

Phylícia Cicilio  
Chemical Engineering  
Octanol/Water Partitioning Coefficients of PCB Mixtures for Environmental Fate and Transport  
Adviser: Jillian Goldfarb

Chad Civello  
Physics  
How Well Can the Heavy Photon Search Discover True Muonium?  
Adviser: Sarah Phillips

James Clifford  
Thomas Garvey  
Antoine Procyk  
Mechanical Engineering

Timothy Gerade  
Electrical Engineering

Nicolas Grauel  
Computer Science  
UNH LunaCats—NASA Lunabotics Mining Competition  
Adviser: May-Win Thein

Ethan Cline  
Physics  
The Characterization of Silicon Microstrip Detectors With an Infrared Laser  
Advisers: Maurik Holtrop, Sarah Phillips

Jesse Coburn  
Physics  
The Solar Wind Turbulent Energy Cascade  
Adviser: Charles Smith

Stephen Collister  
Brett Goldman  
Mechanical Engineering  
Evaluation and Characterization of the Fluid Dynamics Within a Circular Flume  
Adviser: Diane Foster

Zachary Cook  
Adam Downey  
Aaron Lecomte  
Meredith Swanson  
Tina Tomaszewski  
Electrical Engineering  
GPS Peripheral Navigational Aid  
Adviser: Andrew Kun

James Cooper  
Civil Engineering

Alanna Gerton  
International Affairs and Civil Engineering

Tanya Miller  
Emily Polychronopoulos  
Civil Engineering  
Residential Flood Protection  
Adviser: Charles Goodspeed
Ryan Cornelissen  
Lloyd Cornell  
Nicholas Dellacava  
Civil Engineering  
NHTI North Parking Lot  
Adviser: Jo Daniel

Matthew Coronis  
Computer Science  
Kavin Kang  
Electrical Engineering  
Andrew Lapointe  
Matthew Mann  
Brendyn Miller  
Mechanical Engineering  
NASA Magnetospheric Multiscale Mission—Tablesat IID  
Adviser: May-Win Thein

Jackson Corson  
Computer Science  
Wireless 802.11 Automation Framework  
Adviser: Mikkel Hagen

Benjamin Couture  
Kyle Foster  
Willy Vasquez-Morales  
Information Technology  
Climate Control Project  
Adviser: Tat Fu

Melissa Cripps  
Environmental Sciences  
Long-term Monitoring of Water Quality Parameters in the Ossipee Watershed  
Adviser: Michael Palace

Justin Cullity  
Chemical Engineering  
Characterization of Geobacillus Species for Industrial Use  
Adviser: Kang Wu

Bryan Custer  
Zachary Piispanen  
Jeremy Smith  
Computer Science  
Robotic Navigation Utilizing the Robot Operating System (ROS)  
Adviser: Wheeler Ruml

Scott Cypher  
Computer Science  
Evaluating and Modifying a Tool for Detecting Concurrency Errors in Java at Runtime  
Adviser: Philip Hatcher

Anthony D’Amico  
Chemical Engineering  
Thermal Stability of Graphene in Air and Nitrogen  
Adviser: Jillian Goldfarb

Anthony D’Amico  
Michael Seaman  
Chemical Engineering  
UNH ChemE Car  
Adviser: Jillian Goldfarb

Mai-Linh Dao  
Civil Engineering  
Sean Hanjra  
Environmental Engineering and Computer Science  
Charles Martens IV  
Adam Tirrell  
Environmental Engineering  
Replacement of the NH Rt. 175A Bridge and Remediation of Gasoline Contaminated Soils in Plymouth, N.H.: Reexamining a Past Problem  
Adviser: Robert Henry

David DeLaRosa  
Michael Dixey  
Information Technology  
Edward Mossman  
Information Technology and Business  
Web Form to Email Handler  
Adviser: David Blezard

Nickolas DeRossi  
Computer Science  
Application of Updates and Improvements to the UNH-IOL iSCSI Reference Software Target Emulator  
Adviser: Robert Russell

Jessica DelGreco  
Environmental Sciences  
Estimating Anthropogenic Influence in Tropical Forests Using Charcoal  
Advisers: Crystal McMichael, Michael Palace

Matthew Denaro  
Alexander McQuade  
Mark Plante  
Electrical Engineering  
Sensor Suite for the Visually Impaired  
Adviser: Wayne Smith

Gregory DiSanto  
Geography  
Quantifying Interactions Between Stream Flow and Woody Seedlings in a Sand-bed River  
Adviser: Anne Lightbody

Gregory DiSanto  
Geography  
Precipitation Trends in Western Uganda  
Advisers: Joel Hartter, Mary Stampone

Sean Donnelly  
Daniel Finnegan  
Geoffrey Howe  
Jeremy Kiefer  
James Miller  
Christopher Morton  
Michael Saad  
Matthew Schechter  
Mechanical Engineering  
Remote Controlled Airplane  
Adviser: Todd Gross

Ethan Duane  
Biochemistry, Molecular, and Cellular Biology  
Novel Antimicrobial Agents: Expression of Human Keratin 6A in Plants  
Adviser: Subhash Minocha

Kathryn Dube  
Chemistry  
Selective Olefin Metathesis as Intra-chain Crosslinking Towards Nanoparticle Formation  
Adviser: Erik Berda

Richard Emery  
William Lynch  
Computer Science  
Web-based Tower Defense Game  
Adviser: Matthew Bemis

Eric Escobar  
Nathan Gendron  
Jason Hsu  
Electrical Engineering  
David Gervais  
Mechanical Engineering  
Automated PongBot  
Advisers: Barry Fussell, Richard Messner
Caroline Espaillat  
Jared Hooper  
Nathanael Rubin  
Information Technology  
Web-based Collaborative Educational Forum  
Adviser: Hong Jin  

David Estochen  
Jason Evancic  
Meagan McCowan  
Environmental Engineering  

Stephen Uhlman  
Civil Engineering  
Life Cycle Analysis of the UNH Organic Dairy Farm  
Adviser: Kevin Gardner  

Stephen Eustis  
Americo Santamaria  
Benjamin Sawyer  
Michael Spencer  
Civil Engineering  
UNH A-lot Parking Garage  
Adviser: Raymond Cook  

Justin Evans  
Daniel Hutchins  
Information Technology  
Kritiki: A Interactive Application for Conducting Critiques in the Classroom  
Adviser: Mike Glidersleeve  

Robert Evans  
Christie Sitthixay  
Electrical Engineering  

Edward Tan  
Michael Houldsworth  
Computer Engineering  
RFID Race Timing System for Smaller Events  
Adviser: W. Thomas Miller  

Neal Faulkner  
Computer Engineering  
Bedpan Management System  
Adviser: John LaCourse  

Brooke Ferry  
Civil Engineering  
I-293 Exit 6 Transportation Planning Study  
Adviser: Tat Fu  

Michael Figueroa  
Christopher Jacques  
Civil Engineering  
Asphalt Conditioning  
Adviser: Jo Daniel  

Evan Finnance  
Sean O’Brien  
Kevin Stein  
Benjamin Weidmann  
Mechanical Engineering  
Force Balance: Skier & Biker Aerodynamics FPF  
Adviser: Martin Wosnik  

David Fitzpatrick  
Stephen Passen  
Joseph Stiefel  
Information Technology  
Resource Planning Website  
Adviser: Radim Bartos  

Justin Fleming  
Chemistry  
Synthesis and Applications of Tricyclic Bisoxaminals  
Advisers: Gary Weisman, Edward Wong  

Jonathan Frey  
Electrical Engineering  
Architecture Improvement for Secure Integrated Circuits  
Adviser: Qiaoyan Yu  

Maegan Gagne (graduate student)  
Rajitlak Majumdar (graduate student)  
Heather Wingate  
Biology  
Effects of Heavy Metals and Salt on Wild Type and High Putrescine Arabidopsis  
Adviser: Subhash Minocha  

Nihco Gallo  
David Hawk  
Mechanical Engineering  
Garret Healey  
Mathematics  
Trash Adapt: Healthier, Cleaner, Smarter Communities  
Adviser: Ioannis Korkolis  

Paul Galvin  
Shaun McCarthy  
Electrical Engineering  
Determination of Position Estimation Error Using Low Cost Inertial Sensors  
Adviser: Kent Chamberlin  

Maxwell Grady (graduate student)  
Darren Valovcin  
Physics  
The Growth Characterization of Graphene on Ruthenium(0001)  
Adviser: Karsten Pohl  

Patrick Greene  
Physics  
Developing an On-line Space Weather Forecast System  
Adviser: Kai Germaschewski  

Katherine Grzejka  
Chemistry  
Progress Towards 2-(Aminomethyl)-Benzenethiol for Use in Modeling Biological Metal-thiolate Bonds  
Adviser: Samuel Pazicni  

William Gustafson  
Alexander Kachuck  
Timothy O’Neil  
Kevin Quinn  
Damon Tarry  
Anthony Tonelli  
Jonathon Ulrich  
Theodore Withers  
Mechanical Engineering  
Devan Shea  
Mechanical Engineering and Applied Mathematics  
Baja SAE Vehicle  
Adviser: Todd Gross  

Rose Hadley  
Chemistry and Neuroscience and Behavior  
Development of a Method to Quantitate Divalent Metal Ion Uptake of Retinal Phosphodiesterase Enzyme 6  
Adviser: Roy Planalp  

Natalie Hall  
Plant Biology  
Protection of Arabidopsis Thaliana from Abiotic Stressors by Putrescine  
Adviser: Subhash Minocha  

Connor Harrison  
Mechanical Engineering  
Tidal Energy Demonstration Channel  
Adviser: Martin Wosnik
Stephen Harrison  
Civil Engineering  
Jihyon Im  
Matthew Pearsall  
Bodhi Piedmont-Fleischmann  
Lucie Worthen  
Environmental Engineering  
The Dominican Republic Clean Water Senior Project  
Adviser: James Malley

Runzhi He  
Chemical Engineering  
Developing Natural Competence for Geobacillus  
Adviser: Kang Wu

Christopher Hebert  
Computer Science and Mathematics  
Using Real-time Algorithms to Improve Cooperative Pathfinding Techniques  
Adviser: Wheeler Ruml

Geoffrey Houle  
Environmental Engineering  
Water Quality Assessment of Georgetown, Maine  
Adviser: Nancy Kinner

Talcott Hubbard  
Matthew Lemay  
Mechanical Engineering  
AMSC Ic Test Streamlining  
Adviser: Todd Gross

Brian Hurley  
Biology  
Ashley Matthews (graduate student)  
Production of Neoculin (Taste Modifying Protein) in Vegetables Through Genetic Engineering  
Adviser: Subhash Minocha

Jihyon Im  
Environmental Engineering  
Removal of Nitrate From Treated Wastewater by the Method of Ion Exchange  
Adviser: James Malley

Justin Isabelle  
Computer Engineering  
Global Range Weather Monitoring Using an Internet of Things  
Adviser: Andrzei Rucinski

Amit Jain  
Patrick O’Boyle  
Electrical Engineering  
Smart Grid in the Home  
Adviser: Allen Drake

Michael Jefferson (graduate student, Guest from Elizabeth City State University)  
Computer Science  
Survey to Detect Long-term Variability in Pine Island Bay Coastal Ice Using Archived Landsat Imagery  
Adviser: Malcolm LeCompte (ECSU)

Luxmy Jeyendran  
Emilee Martin  
Rebecca Thorlmann  
Civil Engineering  
Modular School Built From Shipping Containers  
Adviser: Robert Henry

Julia Kallmerten  
Civil Engineering  
Renewable Energy  
Adviser: Charles Goodspeed

Stacy Karthas  
Physics and Mathematics  
Event Monitoring Software for the Heavy Photon Search Experiment  
Adviser: Maurik Holtrop

Josiah Kelsall  
Katherine Neumann  
Wesley Sousa  
Information Technology  
Stephen Potts  
Economics and Information Technology  
UNH Software Defined Network  
Adviser: Scott Valcourt

Brian Kispert  
Chemistry  
Studies of Stoichiometric Monobenzylation of Cross-bridged Cyclam by SN2 Alkylation and Reductive Alkylation  
Advisers: Gary Weisman, Edward Wong

Ashley Klink  
Biology  
Rajtilak Majumdar (graduate student)  
Lin Shao (graduate student)  
Effects of Abiotic Stress Factors on S-adenosylmethionine Decarboxylase (SAMDC) Genes on Arabidopsis Thaliana  
Adviser: Subhash Minocha

Daniel Kramer  
Joseph Landry  
Eliza Morrison  
Erica Rochefort  
Environmental Engineering  
Development of Affordable Oil Cleanup for Small Farms  
Adviser: Nancy Kinner

Daniel Kupferschmid  
Taylor Smith  
Civil Engineering  
Memorial Bridge Turbine Design: Structural Support  
Adviser: Erin Bell

Edward LaVilla  
Physics  
The EPI-Lo Concept Instrument Response to Incident Electrons, Modeled Using EGS4  
Advisers: James Connell, Clifford Lopate

Amanda Lade  
Chemical Engineering  
Hydrothermal Processing of Biomass: Conversion of Brewing Byproducts to Renewable Energy at Redhook Brewery  
Adviser: Jillian Goldfarb

Sean Laman  
Jared Ogden  
Electrical Engineering  
Class D Amplifier  
Adviser: Richard Messner

Leslie Lamarche  
Physics  
Integration of the UNH Data into the Neutron Monitor Database  
Adviser: James Ryan

Anne Lamontagne  
Physics  
Improving Detection Efficiency of a Space-based Ion Mass Spectrum Analyzer  
Adviser: Mark Popecki

Ryan Lawrence (Guest from Elizabeth City State University)  
Chemistry  
Light Effects on Chamber Measurements of Methane and Carbon Dioxide Fluxes and their Isotopologues in a sub-Arctic Mire  
Adviser: Ruth Varner
Adam Leone  
Computer Science  
Travis Royer  
Computer Engineering  
Project 54: Instrumented Steering Wheel  
Adviser: Andrew Kun

Melissa Lever  
Chemistry  
Chemical vs Physical Activation Methods for Producing Carbon Adsorbents From Olive Mill Waste  
Adviser: Jillian Goldfarb

Zachary Levesque  
Luigi Pasto  
Jacob Therrien  
Kimberly Worcester  
Mechanical Engineering

Jonathan Nappi  
Jeffrey Puzzo  
Computer Engineering

Justin Remillard  
Computer Science  
Asteroid Mitigation Project  
Adviser: May-Win Thein

Samuel Levin  
Scott Shidlovsky  
Computer Science  
Federated Movie Search Presentation  
Adviser: Matthew Bemis

Erik Lindgren  
Physics  
Statistical Analysis of Electromagnetic Ion Cyclotron (EMIC) Waves and Their Correlation to the 11-year Solar Cycle  
Adviser: Marc Lessard

Evan Locke  
Civil Engineering  
B-lot Parking Garage  
Adviser: Raymond Cook

Brian Madore  
Geology  
Morphometric Analysis of Ribbed Moraines Revealed by LiDAR Data in the Seacoast Region of New Hampshire  
Adviser: Joseph Licciardi

Kadina Mazic  
Biochemistry, Molecular, and Cellular Biology  
The Effect of pH on the Charge of a Monoclonal Antibody  
Advisers: Dana Filoti, Thomas Laue

Meagan McCowan  
Environmental Engineering  
Method Development in Determining Activated Carbon Content in Hydric Soils  
Adviser: Kevin Gardner

Hilary Miller  
Chemistry and Spanish  
Benzyl Group Migration and Exchange in Atenium Ions  
Adviser: Richard Johnson

Kathleen Miller  
Chemical Engineering  
Preparation of Activated Carbons From Waste Peanut Shells for Use as a Sorbent Material  
Adviser: Jillian Goldfarb

Timothy Mitsopoulos  
Computer Engineering  
Documentation for the GNAT-X Experimental Computer System  
Adviser: Andrzej Rucinski

Joshua Moberger  
Electrical Engineering  
Development and Testing of a Balance Platform Perturbator for Research in Neuromuscular Physiology and Biomechanics  
Advisers: Ronald Croce, Wayne Smith

Derek Morris (Guest from Elizabeth City State University)  
Computer Science  
Installation Requirements and Internal Processes at ECSU for the 3.6m X/L Band System, 3.7m C-band System, and 5.0m L Band Satellite Ground Stations  
Advisers: Linda Hayden, Je’aime Powell (ECSU)

Maria Paula Munghi  
Environmental Sciences  
Ecosystem-vegetation Dynamics in Sub-arctic Stordalen Mire, Sweden  
Adviser: Ruth Varner

Sachi Nagada  
Chemical Engineering  
Co-sleeping Mothers and Babies and Sudden Infant Death Syndrome  
Advisers: Russell Carr

Michael Nardone Jr  
Chemistry  
Zinc Carbenoid Reactions of Unsaturated Beta-dicarboxyls  
Adviser: Charles Zercher

Dylan O’Ceeallaigh  
Computer Science  
Improving Real-time Heuristic Search in Dynamic Domains  
Adviser: Wheeler Ruml

Jesse O’Connor  
Daniel Shea  
Peter Somers  
Computer Science  
Psychohistory  
Adviser: Matthew Bemis

Gabriel Paiva  
Environmental Sciences  
The Influence of Land Cover Dynamics on CO2 Flux: A Case Study in Sao Jose Dos Campos, Brazil  
Adviser: Michael Palace

Lauren Pappas  
Chemical Engineering  
Adsorptive Properties of Activated Cocoa Shells for the Removal of Amoxicillin from Wastewater  
Adviser: Jillian Goldfarb

Jeffrey Picard  
Mathematics  
Porting the Particle in Cell Code PSC to the New Intel Xeon Phi Architecture  
Advisers: Kai Germaschewski

Shannon Poges  
Chemistry  
Polyketone Acene Mimics  
Adviser: Glen Miller

Priya Prabhakar  
Information Technology  
Liberty Mutual: Abend Process Job Mapping Maintenance Project  
Adviser: Richard Riepel (Liberty Mutual)
Kelsey Price  
Chemical Engineering  
*Energy and Water Resource Efficient Production of Microalgae Lipids*  
Adviser: Ihab Farag

Ansel Renner  
Mathematics and Economics  
*Dynamics and Unsustainable Practices in the New Hampshire Fishery*  
Adviser: John Halstead

Alicia Reynolds  
(Math Guest from Elizabeth City State University)  
Mathematics Education  
*The Impact of 2006–2012 CReSIS Summer Research Programs on Students’ Choice of a STEM Related Major in College*  
Adviser: Darnell Johnson (ECSU)

Benjamin Rogers  
Chemistry  
*Synthesis of Polymeric Nanostructures by the Palladium-catalyzed Sonogashira Coupling*  
Adviser: Erik Berda

Julianne Sacco  
Mathematics Education and Spanish  
*Definitions in Mathematics: What Do High School Students Know?*  
Adviser: Sharon McCrone

Kayla Santello  
Environmental Engineering

Priscilla Tengdin  
Civil Engineering  
*The iPad: Love it or Leave it*  
Adviser: Robert Henry

Daniel Sargent  
Mechanical Engineering  
*Laser Optimization Module*  
Adviser: F. William Hersman

Louis Saviano III  
Environmental Sciences  
*Physiographic and Hydrologic Characteristics of Rich and Poor Swamps in Southeast New Hampshire*  
Adviser: Thomas Lee

Mark Scimone  
Neuroscience and Behavior  
*Auditory Brain Computer Interface Using a Moving Sound Source*  
Adviser: Andrew Leber

Samantha Sinclair  
Geology  
*Reconstructing the History of Natural and Anthropogenic Sediment Inputs Behind the Former Head-of-tide Dam in the Bellamy River, Dover, N.H.*  
Adviser: Joel Johnson

Nicholas Sjostrom  
Information Technology  
*Analyzing Spoken Dialogue and Pupil Diameter on a Multi-touch Surface*  
Adviser: Andrew Kun

Herbie Smith  
Physics  
*Calabi-Yau 3-Folds as Candidates for String Theoretical Extra-dimensional Space and Their Effects on the Universe*  
Adviser: Per Berglund

Amanda St. Jean  
Chemistry  
*The Double Chain Extension*  
Adviser: Charles Zercher

Matthew Stemkowski  
Statistics  
*Yield Criteria for Helical Solenoids Under a Magnetic Pulse*  
Advisers: Brad Kinsey, James Ryan

Drew Stock  
Computer Engineering  
*Investigation of Multiple-bit Upsets for Reliable Integrated Circuits*  
Adviser: Qiaoyan Yu

Catherine Tarushka  
Mathematics Education  
*Chosen Multiplication Methods and the Ability to Learn New Methods*  
Adviser: Sharon McCrone

Meghan Tobin  
Chemistry  
*Synthetic Approach to 5,6-Benz-1-azabi-cyclo[2.2.2]octane-2-one: A Lactam Having Zero Resonance Energy*  
Adviser: Arthur Greenberg

Ian Tracy  
Electrical Engineering  
*CANopen Stack Comparison*  
Adviser: John LaCourse

Victoria Ward  
Environmental Sciences  
*Cycling of Molecular Hydrogen in Subarctic Sweden*  
Adviser: Ruth Varner

Andrew Wells  
Paige Dickie  
Civil Engineering  
*Tweeting (Dis)comfort*  
Adviser: Tat Fu

Gregory Welter  
Geology  
*Paleomagnetic Polarity Reversals Across the Paleocene Eocene Thermal Maximum*  
Adviser: William Clyde

Brittany White  
Chemistry  
*Novel Carbocation Rearrangements of Polycyclic Compounds*  
Adviser: Richard Johnson

Daniel White  
Civil Engineering  
*Proposed Innovation Drive Bridge Design*  
Adviser: Robert Henry

Peter Wituszynski  
Electrical Engineering  
*Intelligent HVAC Control*  
Adviser: Allen Drake

Emily Wong  
Chemical Engineering  
*Solution Phase Synthesis of Silver Nanowires for Printed Electronics*  
Advisers: Dale Barkey, Xiaowei Teng

Jonathan Wurtz  
Physics  
*Initial Findings for High-power DPAL Laser Simulations*  
Adviser: F. William Hersman

Jeremiah van Baren  
Physics  
*Investigation of Pentacene Derivatives on Au(788) by Auger Electron Spectroscopy*  
Adviser: Karsten Pohl
UNH Manchester
Undergraduate Research Conference

Poster Presentations

Wednesday, April 24
3:30–6 p.m.
University Center
Manchester

The UNHM 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.

John Allebaugh
Kyle Douglas
Matthew Gillespie
Justine Hewitt
Michael Hussni
Stephanie Peltak
Nico Romanuk
Amanda Turni
Communication Arts
Kayla Hall
Business
High School Students and College Choice: A Community-based Research Project
Adviser: Patrice Mettauer

Sophie Allen
Community and Environmental Planning and Sustainable Agriculture and Food Systems
Middle East-US Relations
Adviser: John Resch

Kyle Bassler
History
Cold War Counter Insurgency: The Formation of the Green Berets
Adviser: John Resch

Jessica Besong
Biological Sciences
Physical Therapy and All its Perks
Adviser: Stephen Pugh

Jessica Bissett
Humanities
Birmingham and Civil Rights: Revolution in Public Conscience
Adviser: John Resch

Ruby Boootang
Biochemistry, Molecular, and Cellular Biology
Investigating the Cytotoxicities of Human O6-Alkylgaunine-DNA Alkyltransferase (hAGT) Variants C145A and K125L
Adviser: Natalia Tretyakova

William Boss
Biological Sciences
Water Turbidity—The Concealer of Contaminants
Advisers: Patricia Halpin, Stephen Pugh

Dylan Boucher
Biological Sciences
Watergate Scandal
Adviser: John Resch

Colleen Carter
Biological Sciences
Preclinical Magnetic Resonance Imaging
Adviser: Stephen Pugh

David Ciampa
History
American Capitalism Pre-Civil War
Adviser: Robert Macieski

Erin Clark
English
Discrimination of Gays and Lesbians in the Military
Adviser: John Resch

Josie Colbert
History
The Irish Impact on Catholicism in Manchester, New Hampshire
Adviser: Robert Macieski

Alexis Dagher
Biological Sciences
International Pediatric Care
Adviser: Stephen Pugh

Ryan Gardner
Biological Sciences
Analysis of Bear Pond
Adviser: Stephen Pugh

Steven Gaughan
Psychology

Elias Koester
Psychology and Communication Arts
Community-based Research: Program Evaluation of Boys & Girls Club Teen Center
Adviser: Alison Paglia

Raquel Gawron
History
Justice Denied: The Story of Emmett Till
Adviser: John Resch

Khatira Ghafari
Biological Sciences
How Raw Water is Purified for Drinking Use and as Well as Other Things
Adviser: Patricia Halpin

Megan Gosselin
Psychology
Homeland Security: Public Reactions to the Patriot Act
Adviser: John Resch

Serena Hamelin
History
Development of Dams and the Effect on Fish Populations Between 1800–1899
Adviser: Robert Macieski

Kellie Howard
Biological Sciences and Psychology

Molly Miller
Biological Sciences
Shingles
Adviser: Patricia Halpin

Arber Isufaj
Biological Sciences
Lens Production
Adviser: Stephen Pugh

Sarina Johnston
History
Manchester Mill Girls and Labor Activism in the 1840s
Adviser: Robert Macieski

Norah Katile
Biological Sciences
Nursing Assistants
Adviser: Stephen Pugh
Aaron Kinne  
Biological Sciences  
Environmental Impact and Physical Growth of the UNH at Manchester Vertical Garden  
Adviser: Patricia Halpin

Christopher Kinney  
Business  
Martin Luther King; Birmingham 1963  
Adviser: John Resch

Alex Kornik  
Business  
Counter Culture: Woodstock (1969)  
Adviser: John Resch

Joseph LaBarre  
Psychology  
The Effects of Depth and Mask Coherence on Disappearance Frequency and Duration in Motion Induced Blindness  
Adviser: John Sparrow

Menchu LaFlamme  
Biological Sciences  
Internship at Manchester Water Works Laboratory: Monitoring Phosphate’s Presence in Water.  
Adviser: Stephen Pugh

Michael Leriche  
Humanities  
Affirmative Action: The Bakke Case  
Adviser: John Resch

Michael Leriche  
Humanities  
The Influence of Pop Culture and The Beatles on The Soviet Union  
Adviser: John Cerullo

Kaley Letendre  
Sign Language Interpretation and English War Poetry: Vietnam  
Adviser: John Resch

Heather Mamos  
Psychology  
Community-based Research: Concord Boys and Girls Club Program Evaluation  
Adviser: Alison Paglia

Christina McCann  
Biological Sciences  
Oral Pathology of the Dental Hygienist  
Adviser: Stephen Pugh

Zachary McElwain  
Biological Sciences  
Soldiers in Vietnam: Internal Confusion and the My Lai Massacre  
Adviser: John Resch

Keegan McGuinness  
Humanities  
Public Portrayal of the Rise & Dissolution of the American Party 1854–1857  
Adviser: John Resch

Molly Miller  
Biological Sciences  
Qualitative and Quantitative Analysis of Water Samples Along the Water Treatment Pathway  
Adviser: Patricia Halpin

Christina Minervini  
Undeclared  
Origins of the Cold War: Potsdam  
Adviser: John Resch

Cindy Morales  
Biological Sciences  
Colon Cancer  
Adviser: Stephen Pugh

Jessica Normand  
Biological Sciences  
Aquaponics: The Food of The Future  
Adviser: Patricia Halpin

Jessica Normand  
Biological Sciences  
The Effects of Plant Population Densities on Growth and Yield  
Adviser: Patricia Halpin

Samuel O’Brien  
History  
The Marshall Plan and its Impact on Post-war Europe  
Adviser: John Cerullo

Jeffrey Ouellette  
Humanities  
Sacco and Vanzetti: Prejudice and Injustice in the United States  
Adviser: John Resch

Donovan Pal  
Biological Sciences  
A Potential Pandemic: A Research on Influenza  
Adviser: Stephen Pugh

Ariana Pinette  
Humanities  
Martin Luther King and the Philosophy of Non Violence  
Adviser: John Resch

Mitchell Planty  
Biological Sciences  
Cystic Fibrosis  
Adviser: Stephen Pugh

Allison Powell  
Biological Sciences  
Diversity of Animals at Manchester Cedar Swamp  
Adviser: Stephen Pugh

Thomas Rhoades  
History  
The Irish Troubles  
Adviser: John Cerullo

Christine Ritze  
Biological Sciences  
Occupational Therapy  
Adviser: Stephen Pugh

Rachel Roblee  
Business  
The Trial of Angela Davis  
Adviser: John Resch

Justin Ross  
Biological Sciences  
The Physician Assistant Career  
Adviser: Stephen Pugh

Katie Sarette  
Communication Arts  
Cold War Espionage: The Rosenberg Trial  
Adviser: John Resch

Sean Schmidenberg  
History  
Post Tito Yugoslavia: Transitional Justice or Genocide  
Adviser: John Cerullo

Danielle Schmidt  
History  
Mill Girls: The Transition from Farm Life to Factory Life  
Adviser: Robert Macieski
UNH Manchester URC
Cinema Arts Day

Thursday, April 25
10 a.m.–1 p.m.
University Center
Manchester

The UNHM 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.

Jessica Besong
Biological Sciences
Sunburns: The Damaging Effects
Adviser: Stephen Pugh

Kyle Charrette
Joseph Collins
Communication Arts
Documentary Profile—Double Midnight
Comics
Adviser: Anthony Tenczar

Joseph Collins
Communication Arts
Abduction
Adviser: Anthony Tenczar

Alexis Dagher
Zahra Essa
Jehona Latifi
Biological Sciences
ALS (Amyotrophic Lateral Sclerosis)
Adviser: Patricia Halpin

Seth Fornash
Communication Arts
Farmor
Adviser: Anthony Tenczar

Khatira Ghafari
Biological Sciences
Why Hair Turns Gray
Adviser: Patricia Halpin

Stephen Gibson
Scott Webster
Biological Sciences
The Killer that Doesn’t Kill: HIV on the Immune System
Advisers: Patricia Halpin

Matthew Gillespie
Communication Arts
Little Red Heart
Adviser: Anthony Tenczar

Justine Hewitt
Communication Arts
On My Way
Adviser: Anthony Tenczar

Kellie Howard
Biological Sciences and Psychology
Molly Miller
Biological Sciences
Shingles
Adviser: Patricia Halpin

Jessica Besong
Biological Sciences
Sunburns: The Damaging Effects
Adviser: Stephen Pugh

Kellie Howard
Biological Sciences
Why Hair Turns Gray
Adviser: Patricia Halpin

Seth Fornash
Communication Arts
Farmor
Adviser: Anthony Tenczar

Khatira Ghafari
Biological Sciences
Why Hair Turns Gray
Adviser: Patricia Halpin

Andres Reyes
Communication Arts
Saving Chester
Adviser: Anthony Tenczar

Justin Ross
Biological Sciences
Why Do We Sneeze?
Adviser: Patricia Halpin

UNIVERSITY OF NEW HAMPSHIRE 2013 UNDERGRADUATE RESEARCH CONFERENCE
The Naked Arts — Creativity Exposed

Act II

Thursday, April 25
12:30–2 p.m.
Hennessy Theatre
Paul Creative Arts Center

This event exposes the inner creative process of artists working in various disciplines. Presenters will describe the process, research, and other creative aspects undertaken to bring an artistic creation from initial inspiration to the stage or gallery. This may include a performance or excerpts from their work to illustrate their creative scholarship.

Julia Brush
English and Classics
Let’s: Poetic Thoughts
Adviser: Thomas Payne

Sara Demos
Alyssa LeBlanc
Theatre
Set and Costume Design for Old Times,
A Play by Harold Pinter
Adviser: Szu-Feng Chen

Katharine Jordan
Theatre
Fury
Adviser: David Kaye

Jennifer Lamontagne
Art Studio
To Know: Renewing Contemporary Religious Art Through the Figure
Adviser: Leah Woods

Briana Traynor
Theatre
The Use of Arts Integration to Enhance Differentiated Instruction in the Elementary School Classroom
Adviser: Raina Ames

History Department Undergraduate Presentations

Thursday, April 25
12:30–2 p.m.
Memorial Union Building Rooms 332, 338 and 340

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

MUB, 340

Government in Practice, Ideas of Government, and Governing Ideas

Moderator: Janet Polasky

Jillian Stackhouse
English and History
The After-effects of King Henry VIII’s Religious Policies
Adviser: Cathy Frierson

Kevin Vanslyvong
History and Philosophy
Locke’s Two Tracts
Adviser: Eliga Gould

Benjamin Grande
History
From Covalent to Forgotten: King Philip’s War and the Colonial Shift in Attitude
Adviser: Julia Rodriguez

Cory McKenzie
History and Philosophy
The Courts Have Been Reorganized and Placed above the Influence of Partisanship: New Hampshire’s Unusual Tradition of Court-clearing
Adviser: Jessica Lepler

John Callahan
English and History
Finding the Lost Generation: Looking for America in the Eyes of Expatriate American Writers Living in Paris During the 1920’s
Adviser: Julia Rodriguez

Ella Nilsen
History
The Implications of Power: Exploring the Decline of Congressional Foreign Policy
Power Since the 1970s
Adviser: Jason Sokol

MUB, 332

Histories of National and Local Identity Construction in War and Peace

Moderator: Lucy Salyer

Maree Magliocchetti
History
“We Were a City Unto Ourselves.” A History of the Old North End of Portsmouth, New Hampshire
Adviser: Lucy Salyer

Timothy Brock
History
Naturalization and Denaturalization of Radicals in the United States
Adviser: Lucy Salyer

Alexa Price
History
The Spirit of His Men: The Development of the Lord Nelson Legend, 1805–1905
Adviser: Nicoletta Gullace

Lydia Gove
History
A Welcoming Mother Country or Land of White Superiority? Race and Immigration to Britain After WWII
Adviser: Nicoletta Gullace

Sean Hardies
History
God and Man Will Judge: British Propaganda and the Confiscation of German Colonial Africa
Adviser: Nicoletta Gullace
<table>
<thead>
<tr>
<th>Brian Kraus</th>
<th>Economics and History and Philosophy</th>
<th>Labour Shortage and Health Reform in the Mines of the Gold Coast: A Study in Historical Linkages</th>
<th>Adviser: Nicoletta Gullace</th>
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</thead>
<tbody>
<tr>
<td>Johnathan Murphy</td>
<td>History</td>
<td>A War of Representation: The Philippine Scouts and the Philippine Constabulary in the Public Eye</td>
<td>Adviser: Lucy Salyer</td>
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<td>MUB, 338</td>
<td>History, Memory, and Justice</td>
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<td>Moderator: Cathy Frierson</td>
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<td>Robina Mitchell</td>
<td>History</td>
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<td>Nathan Marzoli</td>
<td>History</td>
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<td>Kerri Hunkele</td>
<td>Justice Studies and History</td>
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<td>Rose Phipps</td>
<td>History and Art History</td>
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<td>Nathaniel Frechette</td>
<td>History</td>
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<td>Charles True</td>
<td>History</td>
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<td>Mark Torrey</td>
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<td>Thompson School Undergraduate Student Showcase</td>
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<td>Thursday, April 25</td>
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<tr>
<td>5:30–7:30 p.m.</td>
<td>Cole Hall (Stacey’s)</td>
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<td>Nicholas Lanzer</td>
<td>Forest Technology</td>
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<td>The Effect of Timber Harvest Treatment on Residual Stand Growth: a Dendroecological Approach</td>
<td>Adviser: Michael Simmons</td>
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<td>A full list of participants will be available at the event.</td>
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<td>UNH Manchester URC Technology Day</td>
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<td>Engineering Technology</td>
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<td>Senior Projects</td>
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<td>Friday, April 26</td>
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<td>8 a.m.–5 p.m.</td>
<td>Pandora Mill</td>
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<td>Manchester</td>
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<td>The UNHM Engineering Technology Program presents its annual Senior Project Presentation day. This event is the culmination of an academic year effort where full-time seniors formally present their projects to peers, faculty members, representatives and technical advisers of sponsoring companies, and special guests.</td>
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<td>Kevin Castonguay</td>
<td>Mechanical Engineering Technology</td>
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<td>Wendell Mejia</td>
<td>Redesign of Hydropneumatic Struts</td>
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<td>Adviser: Paul Ricketts</td>
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<td>Andrew Daneau</td>
<td>Mechanical Engineering Technology</td>
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<tr>
<td>Joshua Hough</td>
<td>Redesign of Hydropneumatic Struts</td>
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<td>Adviser: Paul Ricketts</td>
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<td>John Danis</td>
<td>Mechanical Engineering Technology</td>
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<td>Jewell Instruments—Universal Inclinometer Adapter</td>
<td>Adviser: Paul Ricketts</td>
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<td>Andrew Davenport</td>
<td>Mechanical Engineering Technology</td>
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<td>Electro-Chemical Machining and Parameter Optimization</td>
<td>Adviser: Paul Ricketts</td>
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<td>Paul Dube</td>
<td>Mechanical Engineering Technology</td>
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<td>Test and Optimization of New Valve Configuration</td>
<td>Adviser: Paul Ricketts</td>
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<td>Robert Englehardt</td>
<td>Electrical Engineering Technology</td>
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<td>SRAM Test Module With FPGA</td>
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<td>Adviser: David Forest</td>
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<td>Robert Merrill IV</td>
<td>Mechanical Engineering Technology</td>
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<td>Lower Lumbar Traction Machine</td>
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<td>Adviser: Paul Ricketts</td>
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<td>Evan Morse</td>
<td>Electrical Engineering Technology</td>
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<td>EMC Validation Tool</td>
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<td>Adviser: David Forest</td>
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<td>Edward Pulkowski</td>
<td>Electrical Engineering Technology</td>
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<td>FIRSTs Team Information Matching System (TIMS)</td>
<td>Adviser: David Forest</td>
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UNH Manchester URC Technology Day

Computing Technology
Poster Presentations

Friday, April 26, 2013
Noon–5 p.m.
Pandora Mill
Manchester

Scott Adie
Nicholas Regan
Marc Southard
Computer Information Systems
*Capstone Project—Capturing Experiments with SpEAK*
Adviser: Michael Jonas

Saverna Ahmad
Eric Beikman
Computer Information Systems

Michael Marchand
Biological Sciences
*Found You! A Compass to Your Friends*
Adviser: Mihaela Sabin

Joshua Anderson
Valerie Therrien
Computer Information Systems

Thomas Mendola
History
*ReminderBinder: Social Integration of Note Taking and To-Do Lists*
Adviser: Mihaela Sabin

Kevin Annis
Matthew Henniger
Samuel Workman
Electrical Engineering Technology

Vincent Gagliardi
Michael Mailloux
Computer Information Systems
*Capstone Project: “Oh, Uh” Data Capture*
Adviser: Michael Jonas

Eric Beikman
Joseph Gallagher
Thomas McCarthy
Justin Mulholland
Computer Information Systems

Joshua MacPherson
Drew Mather
Electrical Engineering Technology
*Capstone Project—Speech Modeling: Training & Decoding*
Adviser: Michael Jonas

Michelangelo Bianchi
Brian Drouin
Tyler Martin
Michael Tormos
Computer Information Systems
*Capstone Project—On The Spot: System Support*
Adviser: Michael Jonas

Michael Brown
Harry Dodson III
Charles Haynes
Bego Terzimustafic
Computer Information Systems
*Capstone Project—The Right Tool for the Job*
Adviser: Michael Jonas

Melissa Bruno
Undeclared
*Learning Java with Greenfoot: Quoridor Battle Royal*
Adviser: Michael Jonas

Colby Chenard
Sinisa Vidić
Computer Information Systems

Calvin Mwangi
Politics and Society
*Geography 101: Discover the World*
Adviser: Mihaela Sabin

Chad Connors
Computer Information Systems
*Online Presence for RS Fireworks through Interactive Web Design*
Adviser: Mihaela Sabin

Brian Drouin
Computer Information Systems
*Refactored Relational Database to Support Cable Services Operations*
Adviser: Mihaela Sabin

Mohamed Fadlalla
Michael Henenberg
Computer Information Systems

Drew Mather
Electrical Engineering Technology
*The Jungle: An Educational App for Kids*
Adviser: Mihaela Sabin

Christian Jackson
Computer Information Systems
*Virtualization of Production Environments for Classroom Instruction and Academic Research*
Adviser: Mihaela Sabin

Tyler Martin
Computer Information Systems

Brandon McLaughlin
Justin Mulholland
Alex Shreenan
Computer Information Systems
*Mathapalooza: Tutoring App for K–8 Students*
Adviser: Mihaela Sabin

David Meehan
Computer Information Systems
*YWCA Donation Management and Reporting System Prototype*
Adviser: Mihaela Sabin
Parents Association Undergraduate Research Symposium

Welcome Breakfast with John Aber, UNH Provost; Debbie Dutton, Vice President for Advancement and President, UNH Foundation; and Cyndy Dow, President, Parents Association

Friday, April 26
9–9:30 a.m.
Memorial Union Building
Granite State Room

This informal gathering gives students, faculty and attendees an opportunity to hear an overview before experiencing the large university-wide event that follows— the Parents Association Undergraduate Research Symposium.

Parents Association Undergraduate Research Symposium

Oral Presentations, Session A

Friday, April 26
9:30–10:40 a.m.
Memorial Union Building

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

MUB, Rockingham Lounge

Exploring Research in Anthropology I: History and Environment
Moderator: Svetlana Peshkova

Hillary Christopher
Anthropology
Neolithic Cheese: An Archaeological Experiment
Adviser: Meghan Howey

Courtney Mills
Anthropology and History
The Gulf of Maine Cod Crisis: What Can the Past 5,000 Years Tell Us?
Adviser: Meghan Howey

Jillian Price
Anthropology and History
Archaeology of Preparedness: Excavating UNH’s World War I Training Camp
Adviser: Meghan Howey

MUB, Room 338

Comparative Environmental Politics

Moderator and Adviser: Stacy VanDeveer

Cassandra Biron
Political Science
Political Parties, Agenda Setting, and Implementation in the U.S. and Germany

Paul Chiarantona
Entrepreneurial Studies and Political Science
Vulnerability to Climate Change and National Environmental Policy Responses

Camilla Cooper
Communication and Political Science
Green Business and Politics: Past, Present, and Future

Patrick McManus
Political Science
Implementation of Renewable Energy in Developing Countries

Andrew Obston
Political Science
Changing Environmental Policies in Developing Countries

MUB, Room 304

Ethnic Studies I: American Indian Literature in the 21st Century: Community Engagement through Social Media

Moderator and Adviser: Siobhan Senier

Raya Al-Hashmi
English/Journalism
IdleNoMore: Twitter’s True Digital Natives

Thomas Lusted
English
Bringing Native Musicians Online

Amanda Weissgerber
English
Trace DeMeyer: Indigenous Online Journalist/Publisher/Memoirist
MUB, Room 203

Exploring Research in Psychology: Stress, Sex, Delinquency, and Cultural Challenges

Moderator: Dovev Levine

Danelis Alejo
Psychology
N.H. Immigrants’ Perspectives on Their Experiences Serving as Language Brokers for Their Families
Adviser: Judith Sharkey

Jemmel Billingslea
Justice Studies and Psychology
The Education Aspirations of Black Males: The Voices of Black Males
Adviser: Stephanie Bramlett

Catherine Bousquet
Psychology
All Stressed Out: The Effects of Stress, Depression and Self-Control on Adolescent Delinquency
Adviser: Ellen Cohn

Manuel Lopez
Psychology
Role of Self-Esteem and Need to Belong in Couples’ Conflict Interactions
Adviser: Edward Lemay

Allison Pendergast
Psychology
Bad Girls; Characteristics of Middle School and High School Delinquents
Adviser: Ellen Cohn

Elizabeth Wible
Psychology
Incidence of Unwanted Sexual Experiences Among College Students: Gender and the Red Zone
Advisers: Victoria Banyard, Ellen Cohn

MUB, Room 330

International Affairs: Environmental Sustainability, Resource Management, and Economic Interests

Moderator: Jennifer Purrenhage

Rebecca Caron
International Affairs and English
Flourishing After Fukushima: The Anti-Nuclear Movement in Japan
Adviser: Molly Wallace

Michelle Chase
International Affairs and Biology
All for a Bowl of Soup: A Study of the Illegal Shark Fin Trade in Costa Rica
Adviser: Molly Wallace

Bethany Lefebvre
International Affairs and Environmental Conservation Studies
Water Knows No Bounds: Cross-Boundary Water Management Between the Autonomous Regions of Spain
Adviser: Molly Wallace

Duncan Nelson
International Affairs and Geography
Water for Profit: The Private Sector’s Stranglehold on Chilean Water Resources
Adviser: Molly Wallace

Zachary Porter
International Affairs and Tourism
Planning and Development
Living with Pollution in Managua, Nicaragua
Adviser: Molly Wallace

Eric Sales
International Affairs and Political Science
Water Pressure: The Politics, Culture, and Economics Behind HidroAysen
Adviser: Molly Wallace

MUB, Room 332

International Affairs: Making Ends Meet: Economic Policies, Change, and Inequality

Moderator: Jeanne Sokolowski

Allison Casey
International Affairs and Economics
The Effects of the Economic Crisis on Higher Education in Belgium
Adviser: Molly Wallace

Yu-Chu Cheng
International Affairs and Communication
Happily Ever After? The Growth of Retirees and the U.S. Social Security System
Adviser: Molly Wallace

Heather Dean
International Affairs and Sociology
The Hukou System and Inequality in China
Adviser: Molly Wallace

Caroline Graham
International Affairs and Political Science
The Effects of the Economic Crisis on Spanish Culture
Adviser: Molly Wallace

Poom Techasukij
International Affairs and Economics
Transforming the City of Magyar: Stories Behind the Economic Liberalization Success in Hungary, 1970s–1990s
Adviser: Molly Wallace

MUB, Room 334

International Affairs: State Policies, Cultural Practices, Resistance, and Change

Moderator: Claire Malarte-Feldman

Emily Avant
International Affairs and English
Adviser: Molly Wallace
Hillary Burrows  
International Affairs and Spanish  
¡Ole! Bullfighting in Spain: Is It Time to Say Adiós?  
Adviser: Molly Wallace

Casey Hagelin  
International Affairs and Spanish  
Development Under Dictatorship: The Sección Femenina and the Spanish Women’s Rights Movement  
Adviser: Molly Wallace

Matthew Jones  
International Affairs and Political Science  
Dancing with Dragons: Musical Development as an Indicator of State Health Under Chinese Censorship Policy  
Adviser: Molly Wallace

Alyssa Taffaro  
International Affairs and International Business and Economics  
Thank You for (Not) Smoking: Examining the Opposition to Spain’s 2011 Anti-Smoking Legislation  
Adviser: Molly Wallace

Casper VanCoesant  
International Affairs and Political Science  
How has IPR Enforcement Failed in Mainland China?  
Adviser: Molly Wallace

Danielle Olean  
International Affairs and Communication  
Because I Said So: Constructing Identities in Argentina’s Dirty War  
Adviser: Molly Wallace

Nathaniel Petrocine  
International Affairs and Political Science  
Guardians of the Revolution: An Examination of Military Support During the Arab Spring  
Adviser: Molly Wallace

Michael Pope  
International Affairs and Political Science  
What Makes an Irish Dissident? Sociological Commonalities of Ex-IRA Members  
Adviser: Molly Wallace

Matthew Willard  
International Affairs and International Business and Economics  
Blowback: The Soviet Invasion of Afghanistan and the Taliban  
Adviser: Molly Wallace

Avery Normandin  
Biochemistry, Molecular, and Cellular Biology  
A Dodo at Oxford  
Adviser: Rebecca Karo

Merhawi Wells-Bogue  
English/Journalism  
Interviewing the Street Children of Mekelle City, Ethiopia: Their Plight and What Help Public and Private Organizations Offer  
Adviser: Lisa Miller

Brittany Zorn  
Psychology and Women’s Studies  
Cultivating an Entrepreneurial Spirit of Discovery: An Examination of the Development of Critical Thinking, Reading and Writing Skills in University Students  
Adviser: Reginald Wilburn

MUB, Room 321

North Korea: Nuclear Weapons, Economic Stagnation, and War  
Moderator: Alvina Snegach

William Hancock  
Political Science  
Exploring the Korean Border Dispute  
Adviser: Lawrence Reardon

Leonidas Ocampo  
International Affairs and Political Science  
Economic Sanctions on North Korea  
Adviser: Lawrence Reardon

Abigail Palmatier  
Economics and Political Science  
North Korean Proliferation  
Adviser: Lawrence Reardon

Andrew Schafer  
International Affairs and Political Science  
The Failure of Economic Sanctions on Preventing the Continuation of North Korea’s Nuclear Program  
Adviser: Lawrence Reardon

MUB, Room 336

International Affairs: The Conditions Enabling Violent Conflict and Its Prevention/Cessation  
Moderator: Funso Afolayan

Louis Athanas  
International Affairs and Health Management and Policy  
The Cyprus Conflict: The Dog That Never Barked  
Adviser: Molly Wallace

Patricia Donahoe  
International Affairs and Political Science  
Waving the White Flag: Understanding why ETA Has Not Disbanded  
Adviser: Molly Wallace

Mub, Strafford Room

Humanities, Art History, and the Human Condition  
Moderator: Kathy Cataneo

Maisea Bailey  
Art History  
Redeeming the Provincial Artist: Cola dell’matrice and Works of the Early Modern Period From Ascoli Piceno, Italy  
Adviser: Patricia Emison

Hannah Cullen  
English  
Contemporary American Poetry  
Adviser: Diane Freedman

Joshua Mitts  
English  
Reinventing Milton’s Eve in Zora Neale Hurston’s Their Eyes Were Watching God  
Advisers: Rachel Trubowitz, Reginald Wilburn

Mub, Room 336

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International Affairs and Political Science  
Waving the White Flag: Understanding why ETA Has Not Disbanded  
Adviser: Molly Wallace
MUB, Room 302

**English Literature:**

*Oil and Water: Science, Politics, and Literature of the Niger Delta*

Moderator and Adviser: Sandhya Shetty

Elizabeth Deveau
Marine, Estuarine, and Freshwater Biology and English
*Mangrove Destruction: Life and Loss in the Niger Delta*

Zachary Turgeon
English and Philosophy and Political Science
*MEND and MOSOP: Civil Conflict in the Niger Delta*

Brian Ward
English/Journalism
*Oil and Corruption: The Effect of the Oil Boom on Nigerian Politics*

Merhawi Wells-Bogue
English/Journalism
*The Economy of Oil: The Case of the Niger Delta*

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MUB, Room 340

**The Cause and Cost of China’s Phenomenal Growth**

Moderator: Sean Mossey

Nathaniel Hathorn
Political Science
*The Raging Dragon: Exports, FDI, and China’s Electronic Sector*
Adviser: Lawrence Reardon

Marlee Stever
Political Science
*The Impact of Reforms on China Domestic Economic Policy*
Adviser: Lawrence Reardon

Brian Stone
Political Science
*Regional Inequality in the People’s Republic of China*
Adviser: Lawrence Reardon

David Tarbox
Political Science and Latin
*How China’s Local and National Governments Have Used Urban Planning to Foster Economic Growth*
Adviser: Lawrence Reardon

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MUB, Room 237

**Studies in Spanish Syntax I**

Moderator and Adviser: John Chaston

Mary Foster
Spanish and Linguistics
*Allende’s Zorro: Gains and Losses in Translation*

Daniel Hagenbuch
Spanish and Biology
*The Ultimate Spanish Review and Practice: Mastering Spanish Grammar for Confident…or Maybe Just Okay Communication*

Karen Hock
Spanish
*Tal Vez and Quizás: When Does Maybe not Mean Maybe in Spanish?*

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MUB, Room 207

**U.S. and World Politics I**

Moderator: Lionel Ingram

Johnathan Bowler
Political Science
*A Non-Nuclear Iran*
Adviser: Lionel Ingram

Brian Dobson
Political Science
*The Transitional Government of Egypt: From Arab Spring to Stability*
Adviser: Lionel Ingram

Connor Strobel
Political Science and Philosophy
*More the Structure Alone: A Critique of the Study of Revolutionary Movements*
Adviser: Jeannie Sowers

Zachary Towle
Justice Studies and Political Science
*The United States of Empire?*
Adviser: Lionel Ingram

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Parents Association Undergraduate Research Symposium

**Poster Presentations Session A**

Friday, April 26
9:30–10:40 a.m.
Memorial Union Building
Granite State Room

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

Victor Balaguer-Datiz
Psychology
*How Insecurity Spreads: Generalization Bias Contaminates Perceptions of Romantic Partners’ Acceptance*
Adviser: Edward Lemay
Casey Benner  
Justice Studies and Psychology  

Nadine Maliakkal  
Shannon Zimmerman  
Psychology  

When Does Rule-violating Behavior Affect Peer Delinquency? Differences Between Middle School and High School Boys and Girls  
Adviser: Ellen Cohn

Andrew Blake  
Neuroscience and Behavior  
Memory Coding Properties of Prefrontal Cortical Neurons in the Rat  
Adviser: Robert Mair

Alexandra Bourcy  
Crystal Cascio  
Sarah Maskwa  
Nutrition  

Guiding Stars at the UNH Dairy Bar  
Advisers: Gale Carey, Jesse Morrell

Joshua Butterworth  
Kinesiology and Management  

Nathaniel Downer  
Joseph Rich  
Cory Sinotte  
Kinesiology  

Examining Academic-Athletic Support and Academic Success of Student-Athletes  
Adviser: Heather Barber

Sofia Cadime  
Nursing  
Learning From Técnicos de Cirurgia and Enfermeiras de Saúde Materna: Understanding the Work of Nurses who Perform Essential Surgery in Mozambique  
Adviser: Gene Harkless

Brian Caluori  
Political Science  

Rachel Shanahan  
Psychology  

Timothy Vogel  
Tyler Weber  
Katherine Wooten  
Neuroscience and Behavior  

Validation of a Dithering Algorithm on an LCD  
Advisers: Jenny Lang, John Sparrow, William Stine

Allison Caplin  
Psychology  

What are the Relations Among Stress Perception, Health Perception and Activity Participation in School-Aged Children?  
Adviser: Robert Drugan

Meredith Cashman  
Meghan Craig  
Nicolas Grafton  
Ryan Hebert  
Joel Wyatt  
Psychology  

Advisers: Kristiana Dixon, Katie Edwards

Melissa Copeland  
Psychology and Women’s Studies  

The Impact of Sexual Violence on Women’s Transition to College  
Adviser: Victoria Banyard

Allison Coppenrath  
John Sauerhoff  
Jennifer Simpson  
Kinesiology  

Examining the Hiring Process of Intercollegiate Assistant Coaches  
Adviser: Heather Barber

Hollie Couture  
Justice Studies and Sociology  

Amy Oldenquist  
Justice Studies and Psychology  

Risky Business: Predictors of Rule Violating Behavior in Adolescents  
Adviser: Ellen Cohn

Christopher Cummings (graduate student)  

Umija Durakovic  
Biochemistry, Molecular, and Cellular Biology  

Regulation of the Angiogenic Inducer CCN1 by Prostaglandin F2a in Granulosa Cells  
Adviser: Paul Tsang

Sarah Dobush  
Psychology  

Anger Proneness, Hostility, and Commitment in Intimate Relationships  
Adviser: Edward Lemay

Abigail Doherty  
Nursing  

The Effect of Hourly Rounds on Pain Severity  
Adviser: Joanne Samuels

Danielle Dubois  
Nutrition  

Binge Drinking, Blood Pressure, and Duration of Physical Activity as Risk Factors for Cardiovascular Disease in College Students  
Adviser: Jesse Morrell

Cameron Duquette  
Wildlife and Conservation Biology  

An Evaluation of Managed Nesting Habitats for Turtles in Southeastern New Hampshire  
Adviser: John Litvaitis

Daniel Gallant  
Biomedical Science  

Assessing Inflammatory Markers in Grain Fed vs. Pasture Fed Dairy Cows  
Adviser: Thomas Foxall

Evagelia Georgakilas  
Nutrition  

College Students’ Midpoint Sleep Time and Dietary Intake  
Adviser: Anthony Tagliaferro

Ashley Gosselin  
Nursing  

Nursing Simulation Experience: Self-Efficacy, State Anxiety, Locus of Control, and Simulation Effectiveness  
Adviser: Pamela Kallmerten

Jessica Handler  
Communication Sciences and Disorders  

Early Developmental Markers of Autism Spectrum Disorders in Toddlers  
Adviser: Rae Sonnenmeier

Elizabeth Hebert  
Neuroscience and Behavior  

Memory Coding Properties of Prefrontal Cortical Neurons in the Rat  
Adviser: Robert Mair

Kimberly Kancir  
Nursing  

Children, Families and Orthopedic Surgery in Nepal: A Qualitative Description of Pain Care  
Adviser: Gene Harkless
Kaitlin Kirby
Nursing
*Nursing Textbooks: Comparative Representations of Physicians and Advance Practice Nursing*  
Adviser: Gene Harkless

Christie Mastriano
Leah Tully
Nutrition
*Multivitamin/Mineral Usage, Body Mass Index, and Exercise Among College Students*  
Adviser: Jesse Morrell

Jenna McCarthy
Nursing
*The Relationship Between Psychosocial Challenges and Pediatric Voiding Dysfunction*  
Adviser: Gene Harkless

Megan McLaughlin
Genetics
*Biofilm Ecology and Diversity Allows for Persistence After Antibiotic Treatment*  
Adviser: Vaughn Cooper

David Morejon
Biochemistry, Molecular, and Cellular Biology
*Indirect Effects of Beneficial Mutations*  
Adviser: Vaughn Cooper

Tristan Papallo
Psychology
*Do Ultrasonic Vocalizations During Intermittent Swim Stress Forecast Resilience in a Subsequent Forced Swim Test?*  
Adviser: Robert Drugan

Mallika Prabhakar
Biomedical Science
*Detection of Immunoglobulin A in Neonatal Calf Saliva*  
Advisers: Nate Smith, Paul Tsang

Andrew Quinn
Nursing
*New Technology on a Neuro-Epilepsy Unit*  
Adviser: Gene Harkless

Michela Salusti-Simpson
Psychology
*Reflections on Prevention: What do Juniors and Seniors Remember About Bystander Education on a College Campus?*  
Adviser: Victoria Banyard

Rachel Schleker
Communication Sciences and Disorders
*Qualitative Analysis of Parents’ Reports of Factors Associated With Successful Uses of AAC Devices by Their Children With Angelman Syndrome*  
Adviser: Stephen Calculator

Ashley Silva
Nursing
*Caregiving for Childhood Illness in Dominican Republic Bateys*  
Adviser: Gene Harkless

Caille Souza
Health Management and Policy
*A Comparative Analysis of Magnet Hospital HCAP Scores*  
Adviser: Leslie MacLeod

Samuel Stevens
Psychology
*Trust Biases Perceptions of Romantic Partners’ Hostility and Responsive Behavior*  
Adviser: Edward Lemay

Taylor Lawrence
Communication
*Technical Writing in the Communication Field*  

Trisha Schuman
International Affairs and Linguistics
*Issues in Technical Writing in Foreign Language Teaching*

Courtney Sharpe
English
*Technical Writing Trends in English*

Kara Smatt
English
*Technical Writing Trends in Magazine Publishing*

Cassandra Spencer
Communication
*Trends in Communications*

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**Parents Association Undergraduate Research Symposium**

**Oral Presentations, Session B**

**Friday, April 26**

10:50 a.m.–Noon

**Memorial Union Building**

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

Exploring Research in Anthropology II: History and Religion

Moderator: Eleanor Harrison-Buck

Joshua Beaucher
Anthropology
Protective, Medicinal, and Entheoenic Uses of Tobacco Among the Maya
Advisers: Eleanor Harrison-Buck, Meaghan Howey

Evelyn French
Anthropology
Maya Calendar and the End of the World
Adviser: Eleanor Harrison-Buck

Grace Kirkpatrick
Anthropology
An Exploration of Mesoamerican Fertility Practices
Advisers: Eleanor Harrison-Buck, Svetlana Peshkova

Emma Pankey
Anthropology
Creation, Ensoulment, and Sacrifice: The Vital Role of Children in Ancient Maya Ideology and Ritual
Adviser: Eleanor Harrison-Buck

MUB, Room 302

English Literature:
Dark Continents: Illumination, Misperception, and Other Struggles for Meaning

Moderator: Reginald Wilburn

Alexander Braile
English Literature and Art Studio
Glow and Haze: Parable, Metaphor, and the Illumination of Meaning in Joseph Conrad’s Heart of Darkness
Adviser: Petar Ramadanovic

Shannon Goodine
English Teaching
The Search for Identity in African Literature
Adviser: Sandhya Shetty

Joshua Richardson
English
Mothers and Daughters in Aminatta Forna’s Ancestor Stones
Adviser: Sandhya Shetty

Sawyer Theriault
English
Reality and Misperception of Self-Value: August Wilson’s Use of Dramatic Plot Structure
Adviser: Reginald Wilburn

MUB, Room 303

Feminism in Action: Women’s Studies Internships

Moderator and Adviser: Joelle Ruby Ryan

Molly Branch
English/Journalism and Women’s Studies
Interning to Promote Campus Activism

Chloe Flanagan
Psychology and Women’s Studies
Interning for the Women’s Studies Program

Elizabeth Griffith
Communication and Women’s Studies
Interning at the President’s Commission on the Status of Women

Michael Houle
English Teaching
WildActs: Building Community Through Social Justice Theater

Sarah White
Women’s Studies
The Effects of Yoga on the Stress of Female Athletes

Laura McGee
Communication
The Rhetorical Influence of Music on Political Communication
Adviser: Michelle Michaud

Danielle Olean
International Affairs and Communication
Because I Said So: Constructing Identities in Argentina’s Dirty War
Adviser: Sheila McNamee

MUB, Room 207

Contemporary Latin American Politics

Moderator: Michael Cole

Chandler Hull
Political Science
Cartels, Gangs, and Mexico’s War on Drugs
Adviser: Mary Malone

Elizabeth Resnick
Political Science
The Washington Consensus: Neoliberalism in Chile, Argentina, and Brazil
Adviser: Mary Malone

Zachary Shobin
Political Science
Drug Wars in Latin America: The U.S. and Its Role in Conflict
Adviser: Mary Malone

MUB, Room 233

Distinguished Research in Communication

Moderator: Kevin Healey

Nyomi Guzman
Communication and Women’s Studies
Interracial Couples in Romance Films
Adviser: James Farrell
FRIDAY 4/26

PARENTS ASSOCIATION UNDERGRADUATE RESEARCH SYMPOSIUM—ORAL PRESENTATIONS: SESSION B, CONTINUED

MUB, Room 330

International Affairs: Assessing Strategies for Sustainable Human Development
Moderator: Gregg Orifici

Megan Brabec
International Affairs and Political Science
Gender Inequality in Education in Ecuador
Adviser: Molly Wallace

Robyn Keriazes
International Affairs and English/Journalism
Serious Leisure: The Impact of Tourism on Indigenous Communities of Peru
Adviser: Molly Wallace

Alexander Lamothe
International Affairs and Family Studies
Gardez Nous Bien: An Analysis of the International, National, and Local Interventions to Help Orphans and Vulnerable Children in Sub-Saharan Africa
Adviser: Molly Wallace

Catherine Lovely
International Affairs and Spanish
Is Fair Trade Fair? Looking at the Coffee Trade Between Costa Rica and the United States
Adviser: Molly Wallace

Sarah Perron
International Affairs and Marketing
Is Ecotourism in Costa Rica Sustainable?
Adviser: Molly Wallace

Monica Stewart
International Affairs and Anthropology
Sowing the Seeds, Then Watering the Sprouts: Community Health Worker Programs in Peru
Adviser: Molly Wallace

MUB, Room 332

International Affairs: Civic Participation, Political Transitions, and State Legitimacy
Moderator: Catherine D’Auteuil

Emily Donnery
International Affairs and Anthropology
Las Políticas Hoy: The Aftermath of the Dirty War of Argentina
Adviser: Molly Wallace

Alanna Gerton
International Affairs and Civil Engineering
From Austerity to Prosperity: Labor Reform in Spain
Adviser: Molly Wallace

Elizabeth Hartigan
International Affairs and Political Science
Why Participate? A Comparison of Civic Engagement in Chile and the United States
Adviser: Molly Wallace

Lillian McCarthy
International Affairs and Linguistics
Understanding the Italian Public’s Perception of Their Government
Adviser: Molly Wallace

Stephanie Weiner
International Affairs and Political Science
Nonviolence and Democratic Process: Transition in Post-Junta Argentina
Adviser: Molly Wallace

MUB, Room 334

International Affairs: Immigration and Demographic Change: Identity, Religion, and Inequality
Moderator: Thomas Haines

Darrin Broadhurst
International Affairs and Russian
What are the Likely Implications of a Declining Russian Population?
Adviser: Molly Wallace

Samuel Carmichael
International Affairs and Russian
The Expansion of Political Islam in Chechnya
Adviser: Molly Wallace

Victoria Glidden
International Affairs and Spanish
Social Stratification in Spain: The Marginalization of Immigrant Cultures
Adviser: Molly Wallace

Patricia Malone
International Affairs and English Teaching
A Conflict of Faith: Can France and the French-Islamic Community Reconcile Their Differences?
Adviser: Molly Wallace

Kvehl McDermott
International Affairs and Political Science
Does the Anti-Muslim Sentiment in France Encourage Radical Islam?
Adviser: Molly Wallace

Nolan Russell
International Affairs and German
Mein Austria: Discovering What it Means to be Austrian in a Multicultural World
Adviser: Molly Wallace

MUB, Room 336

International Affairs: National/Minority Identities, Language, and Culture
Moderator: Molly Doyle

Ashley Bertz
International Affairs and Political Science
The Catalan Identity: Increased Salience in the Wake of Economic Crisis
Adviser: Molly Wallace

Amy LaRocca
International Affairs and Spanish
Gitano Flamenco Characteristics in Mainstream Spanish Culture
Adviser: Molly Wallace
Amanda Maillet
International Affairs and Linguistics
How to Say ‘iPod’ in French: An Examination of France’s Language Policies and the Effects They are Having on the French People
Adviser: Molly Wallace

Lindsay Nolan
International Affairs and International Business and Economics
The Effects of Nationalism on the Basque Country
Adviser: Molly Wallace

Trisha Schuman
International Affairs and Linguistics
Indigenismo: Lexical Borrowings into Peruvian Spanish
Adviser: Molly Wallace

Laura Roach
Economics
The Role of the World Trade Organization: An Equalizer or a Tool of Exploitation
Adviser: Alynna Lyon

MUB, Room 340
Evaluating the Health of a Nation: Research from the College of Health and Human Services
Moderator: TBD

Madeline Allen
Kinesiology
The Relationship Between the Strength-to-Weight Ratio and Self-Administered Disability Index in Older Adults
Adviser: Summer Cook

Molly Bedker
Health Management and Policy
The Health of a Nation—Lessons from a State Perspective
Adviser: Semra Aytur

Lana Ciali
Psychology
A Qualitative Study of Stimulant Medication Use and Misuse Among College Students: Exploring Motives for Misuse
Adviser: Barbara White

Alyssa DeQuattro
Kinesiology
Can Chair-Rise Time Predict Walking Difficulty in Older Adults?
Adviser: Dain LaRoche

Natalie Fortier
Kinesiology
Happiness and the Ladder of Inference
Adviser: Brent Bell

Alexander Lamothe
International Affairs and Family Studies
Renewing promise: An Analysis of the Effects of Positive Behavior Interventions and Supports in New Hampshire High Schools
Adviser: Erin Sharp

Dina Milano
Kinesiology
Effects of Low Load Blood Flow Restricted Exercise on Neuromuscular Recovery in College-aged Females
Adviser: Summer Cook

Charlotte Slate
Kinesiology
High Body Weight Influences Functional Mobility in Older Adults
Adviser: Dain LaRoche

MUB, Room 338
International Organizations and the Challenges of Global Governance
Moderator: Alvina Snegach

Mike Deering
Marketing
Agenda 21: The Future of Sustainability in Question
Adviser: Alynna Lyon

Crystal Doyle
Political Science
The Tea Party and the State Legislatures’ Attack on Agenda 21
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Audrey Hansen
Political Science and Spanish
Human Rights and Transnational Justice: Spain and Chile
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Regional Political Integration in Southeast Asia and Natural Disasters
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Kinesiology
High Body Weight Influences Functional Mobility in Older Adults
Adviser: Dain LaRoche

MUB, Room 304
Political Theory, Ideas, and Literature
Moderator and Adviser: John Kayser

Nikolas Beimler
Political Science
Plato’s Republic in Shakespeare

Ryan Donnelly
Political Science
An Analysis of Machiavelli’s ‘Prince’

Matthew St. Hilaire
Political Science
American Mobocracy: Death by Suicide

MUB, Room 321
Exploring Research in Sociology I: Sex and Society
Moderators: Sharyn Potter, Catherine Moran

Benjamin Bullock
Sociology
Exploring a Division of Gender in Measuring Sexual Coercion: Are Researchers on the Same Page?
Advisers: Murray Straus, Karen Vangundy

Amber Carlson
Justice Studies and Sociology
Definitions and Perceptions of Sexual Assault: How Important is Victim and Perpetrator Gender?
Advisers: Rebecca Glauber, Sharyn Potter
Parents Association Undergraduate Research Symposium

Poster Presentations, Session B

Friday, April 26
10:50 a.m.–Noon
Memorial Union Building
Granite State Room

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Maria Aiello
Justice Studies and Sociology
Sidney Bennett (graduate student)
Cameron Cunningham
Psychology
Survivors’ Voices on Prevention
Adviser: Victoria Banyard

Nicole Ashmankas
Zoology
Detection of Pressure in Juvenile Limulus polyphemus
Adviser: Winsor Watson

Neil Baroody
Kinesiology
The Effect of a Barefoot Running Training Program on Running Economy and Performance
Adviser: Tim Quinn

Audrey Hickey
Psychology and Sociology
The Portrayal of Female Sexual Desire in Current Films
Adviser: Catherine Moran

Alli Puchlopek
Sociology
Rape Myth Acceptance and Bystander Attitudes on Campus: Understanding Students’ Perceptions of Sexual Assault
Adviser: Rebecca Glauber

MUB, Room 237

Studies in Spanish Syntax II

Moderator and Adviser: John Chaston

Michelle Flaherty
Spanish
Preterite Versus Perfect Tense in Latin American and Spanish Songs and Pop Culture

Luke Hansford
International Affairs and Spanish
Rechazando en Spanish: Subjunctive or Indicative

Tristen Krakie
English and Spanish
Forecasting the Unknown: the Spanish Use of Subjunctive and Indicative in Predictive Statements

Shannon Langtry
Spanish and Psychology
Spanish Mood in Agradecer, Murmurar, and Quejarse. Are We Thankful? Or Murming Complaints?

Hilary Miller
Chemistry and Spanish
Spanish Mood Selection: Probablemente Subjunctive, Posiblemente Indicative

Celina Williamson
Linguistics and Spanish
A Shadow of a Doubt: Why are ‘sin Duda que’ and ‘el Hecho de que’ Doubtful Conjectures?

MUB, Strafford Room

Culture Through the Mediums of War Film, Manga, and French Literature

Moderator: Delia Konzett

Parker Callahan
Music Theory
War Film: Looking at The Valley of Elah
Adviser: Delia Konzett

Michael DeStefano
History
Breaking the Conventions of the World War II Film
Adviser: Delia Konzett

Molly Driscoll
European Cultural Studies and French
An Innocent Victim? The Representation of Anne Boleyn in Nineteenth Century French Drama, Art, and Literature
Adviser: Barbara Cooper

Katherine Juster
English and Theatre
Comedy in War Film
Adviser: Delia Konzett

Alexandru Panait
Sociology
From Shunga to Ero Manga: Erotica as a Product of Popular Culture In Japan
Adviser: Pamela Ikegami

Mack Willingham
Theatre
War Film
Adviser: Delia Konzett
<table>
<thead>
<tr>
<th>Name</th>
<th>Field</th>
<th>Title</th>
<th>Advisor</th>
</tr>
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<tbody>
<tr>
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<tr>
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<td>Neuroscience and Behavior and Psychology</td>
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<td>Evaluation Tool for the Selection of iPad Apps for Learning for Students with Developmental Disabilities</td>
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<td>Matthew Cotton</td>
<td>Biochemistry, Molecular, and Cellular Biology</td>
<td>A Screen to Identify and Characterize Mutations in Arabidopsis thaliana</td>
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<td>Elora Demers</td>
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<td>Boldness in the Asian House Gecko, Hemidactylus frenatus, and Its Relationship to Running Speed, Bite Force, and Mass</td>
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<td>Nicole Petersen</td>
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<td>Novel Antimicrobial Agents: Expression of Human Keratin 6A in Plants</td>
<td>Subhash Minocha</td>
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<td>Cara Foley</td>
<td>Challenges Associated with Cross-sectoral Collaboration and Strategies to Incentivize Partnership for Health Impact Assessment</td>
<td>Semra Aytur</td>
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<td>Rajitlak Majumdar</td>
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<td>Effects of Heavy Metals and Salt on Wild Type and High Putrescine Arabidopsis</td>
<td>Subhash Minocha</td>
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<td>Heather Wingate</td>
<td>Biology</td>
<td>Intimate Partner Violence in Rural Communities: Attitudes and Perceptions of Young Adults</td>
<td>Robert Drugan</td>
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<td>Kayleigh Greaney</td>
<td>Plant Biology</td>
<td>The Thin Ideal: Media and How it Relates to Body Dissatisfaction and Disordered Eating Behaviors in College Women</td>
<td>Katie Edwards</td>
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<td>Hospital Mortality Through Data Mining</td>
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<td>Kelly Morris</td>
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<td>Impact of Legislation on Mental Health Issues and the Role of Advocacy: Implications for Student Involvement</td>
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</table>
Parents Association Undergraduate Research Symposium

Oral Presentations, Session C

Friday, April 26
1:40–2:50 p.m.
Memorial Union Building

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

MUB, Strafford Room

A Queer Perspective: Undergraduate Research on LGBT Intimate Partner Violence

Moderator: Kateryna Sylaska

Annie Crossman
Psychology and Women’s Studies
Community Factors and LGB Intimate Partner Violence Victims’ Experiences
Advisers: Katie Edwards, Kateryna Sylaska

Ryan Hebert
Psychology
Reflections on Research Experiences: Where We Are and Where We Are Going
Advisers: Katie Edwards, Kateryna Sylaska

Arianna Schaaff
Psychology and Sociology
Helping Hands: Qualitative Analysis of LGB Victims’ Disclosure Experiences
Advisers: Katie Edwards, Kateryna Sylaska

MUB, Rockingham Lounge

Exploring Research in Anthropology III: Religion and Gender

Moderator: Svetlana Peshkova

Lauren Banker
Anthropology and Women’s Studies
Mi Método, Mi Elección: A Comparative Look at Birth Control Access in Chile and the United States of America
Advisers: Karen Niland, Svetlana Peshkova

Megan Barry
Anthropology
An Islamic Approach to Sustainability
Adviser: Svetlana Peshkova

Kathryn Garland
Anthropology
Between Belly Dancing and the Veil: American Views on Moroccan Women and Beauty
Adviser: Svetlana Peshkova

Vanessa Sowell
Social Work
A Comparative Study of Purity Between America and Pakistan
Adviser: Svetlana Peshkova

MUB, Room 302

English Literature:

Calcutta Modern: Home and World in the Novels of Amitava Ghosh and Amit Chaudhuri

Moderator and Adviser: Sandhya Shetty

Christopher Brown
English Literature
Signifying Slowly: Defamiliarization and Interrupting Tempo in Amit Chaudhuri’s A Strange and Sublime Address

James Freeley
English Teaching
Opium Makes the World Go Round: Amitava Ghosh’s Sea of Poppies

Lachey Ross
Justice Studies and Sociology
Gun Control Law and Crime: The Effects of the Heller Decision on the District of Columbia
Adviser: Charles Putnam

Mark Scimone
Neuroscience and Behavior
The Relationship Between Disengagement and Inhibition and their Correlation with Working Memory Capacity
Adviser: Brett Gibson

Rachel Sluder
Neuroscience and Behavior
Mindfulness Meditation and Depression: A Meta-analysis
Adviser: Brett Gibson

Brianna Smith
Fine Arts
The Development of Planning Abilities in School-Aged Children
Adviser: Brett Gibson

Lea Trush
Biomedical Science
Natural Resistance to HIV Harnessed for a Potential Cure
Adviser: Thomas Pistole

Katharine Volz
Occupational Therapy
Single Case Research on the Effectiveness of Hippotherapy
Adviser: Barbara White

MUB, Granite State Room

Advanced Technical Writing Posters

Adviser: Christine O’Keefe

Sarah Benner
Information Technology
Technical Writing Issues in Information Technology

Rebecca Caron
International Affairs and English
Technical Writing in International Affairs

Benjamin Stallman
Fine Arts
Technical Writing Issues in Graphic Design

MUB, Room 302

English Literature:

Calcutta Modern: Home and World in the Novels of Amitava Ghosh and Amit Chaudhuri

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James Freeley
English Teaching
Opium Makes the World Go Round: Amitava Ghosh’s Sea of Poppies
### MUB, Room 338

**English Literature:**

**Comic Asian America Across Gutters, Panels, and Frames**

Moderator: Monica Chiu

- **Adam Babinat**
  - English
  - *Comics and Education: When is the Meaning Lost?*
  - Adviser: Monica Chiu

- **Jonathan Constable**
  - English Teaching
  - *Family Matters: History and Heritage in Graphic Form*
  - Adviser: Sandhya Shetty

- **Christopher Hall**
  - English and Civil Engineering
  - *Understanding Gene Yang’s “Chin-Kee” Through Comic Form*
  - Adviser: Monica Chiu

- **Curtis Hines**
  - English
  - *Form and Function in Layman and Guillory’s “Chew”*
  - Adviser: Sandhya Shetty

### MUB, Room 330

**Ethnic Studies II: American Indian Literature in the 21st Century (ENG 739): How to Build a Digital Archive of Native American Literature**

Moderator and Adviser: Siobhan Senier

- **Carl Bumbaca**
  - English
  - *Occupy Wikipedia, Part II: Researching and Writing Alongside Authors*

- **Parker Cavallaro**
  - English Teaching
  - *Anthologizing Online: Breaking the Historical Mold*

- **Shelby McGuigan**
  - History
  - *Doing Native History Online: Conversations with Joan Tavares Avant*

- **Dana Roach**
  - English
  - *Occupy Wikipedia, Part I: Increasing Female Authorship and Representation*

### MUB, Room 332

**Conflict and Cooperation Among East Asian Economies**

Moderator: Chelsea Moyer

- **Jesse Childs**
  - Political Science
  - *Evaluating the Japanese Economic Miracle*
  - Advisers: Lawrence Reardon

- **Crystal Doyle**
  - Political Science
  - *Corruption in the Japanese Economy*
  - Adviser: Lawrence Reardon

- **Ryan Mack**
  - Political Science
  - *Senkaku/Diaoyu Island Dispute*
  - Adviser: Lawrence Reardon

- **Tegan O’Neill**
  - Political Science
  - *ASEAN and the East Asian Countries*
  - Adviser: Lawrence Reardon

### MUB, Room 334

**Gambling, Corruption, and Other Costs of Growth in East Asia**

Moderator: Roberto Reyna

- **Joseph Cenney**
  - Political Science
  - *Macau: The New World Leader in Gambling*
  - Adviser: Lawrence Reardon

- **Aliza Harrigan**
  - Political Science
  - *The Negative Impact of South Korea’s Economic Development on the Elderly*
  - Adviser: Lawrence Reardon

- **Michael Jeffers**
  - Political Science
  - *North Korea and the Industrial Revolution*
  - Adviser: Lawrence Reardon

- **Joseph Cenney**
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  - Adviser: Lawrence Reardon

- **Michael Jeffers**
  - Political Science
  - *North Korea and the Industrial Revolution*
  - Adviser: Lawrence Reardon

- **Nathan Popielarczyk**
  - English
  - *An American Indian Identity: Zitkala-Sa*

- **Sawyer Theriault**
  - English
  - *From Thoreau to Muir: The Birth and Progress of American Environmental Thought*

### MUB, Room 203

**Memorials and Film as Rhetorical Displays**

Moderator and Adviser: Lawrence Prelli

- **Hilary Bird**
  - Communication
  - *A Dramatistic Approach to Understanding the Rhetorical Influence of Taxi Driver*
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<th>Advisor(s)</th>
<th>Moderator(s)</th>
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<td>Jessica Robles</td>
<td>Jessica Bennett</td>
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<td>A Comparative Analysis of the Rhetorical and Commemorative Functions of</td>
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<td>Holocaust Memorials in the United States</td>
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<td>From Algae to Algebra: Studies in Chemical Engineering and Math Education</td>
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<td>Daniel Eltringham</td>
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<td>Algae Growth in Photobioreactors Using LEDs to Maximize Lipid Production</td>
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<td>Adviser: Ihab Farag</td>
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<td>Misconceptions and Errors in Algebra</td>
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<td>Kinetics of the Lipid Extraction from Microalgae</td>
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<td>Piracy, Plunder, Pollution, and Problems in East Asia</td>
<td>Kayleigh Mitchell</td>
<td>Paul Chiarantona</td>
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<td>A Disparity in Regional Development: China's Urban and Rural Economic Inequality</td>
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<td>Exploring Research in Sociology II: Social Forces and Community Change</td>
<td>Cliff Brown and Cesar Rebellon</td>
<td>Audrey Hickey</td>
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<td>Advisers: Burt Feintuch, Thomas Safford, Steven Whitman, Daniel Winans</td>
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<td>327</td>
<td>Studies in Spanish Syntax III</td>
<td>Cesar Rebellon</td>
<td>Alexandria Panait</td>
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<td>Senses of Community on College Campuses</td>
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<td>Saying Maybe in Spanish Literature: Evaluating Research on Diplomacy with Terrorists</td>
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<td>China’s Status as a Developing Nation</td>
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<td>We Negotiate with Terrorists: Evaluating Research on Diplomacy with Terrorists</td>
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<td>The Spanish Imperfect: Repairing Imperfect Teaching of an Imperfect Tense</td>
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</table>
Casey Hagelin  
International Affairs and Spanish  
To Be or Not To Be: An Analysis of the Spanish Verb “to be” with Adjectives

Melanie Hawthorne  
Spanish and History  
Do We Use the Spanish Indicative or Subjunctive? Let’s Si!  
Adviser: John Chaston

Amy LaRocca  
International Affairs and Spanish  
Uncertainty and Possibility in Spanish Noun Clauses: What do People Think?  
Adviser: John Chaston

MUB, Room 207

U.S. and World Politics II
Moderator and Adviser: Lionel Ingram

Alexa Ayoub  
Justice Studies and Political Science  
US Foreign Policy and the Iranian Nuclear Program

Patrick Marvin  
Justice Studies and Political Science  
Possible Outcomes of the Current Situation in Egypt

Jocelyn Thibault  
Political Science  
U.S.-Cuban Relations

Scott Zerbi  
Political Science  
Pakistani Nuclear Proliferation

MUB, Room 336

The Politics of Identity and Elections
Moderator: Susan Siggelakis

Audrey Hansen  
Political Science and Spanish  
Morality and Identity in American Political Community  
Adviser: Susan Siggelakis

Nathaniel Kaplan  
Political Science  
The 2012 Presidential Election in North Carolina  
Adviser: Susan Siggelakis

Nicholas Mignanelli  
Political Science  
Nietzsche, Multiculturalism, Quebecois & World Government  
Adviser: Stacy VanDeveer

Alexander Parkes  
Political Science  
Ethnicity and Hungary  
Adviser: Susan Siggelakis

Willem Weiser  
Political Science  
Presidential Campaigns in Wisconsin  
Adviser: Andrew Smith

Peter T. Paul College of Business and Economics Undergraduate Research Conference

Poster Presentations
Friday, April 26
Paul College

Through original research and valuable guidance from mentors, this event helps students gain deeper academic knowledge as well as professional experience. This URC event includes poster presentations, oral presentations, and feedback from University and business leaders.
Emily Cooper
EcoGastronomy and Wildlife and Conservation Biology
Growing Smarter: Sustainable Food and Living After School Program
Advisers: Trent Schriever, Daniel Winans

Lauren Cotnoir
EcoGastronomy and Communication
A Study of Milk as an Essential Food Group
Adviser: Daniel Winans

Lydia Crisp
EcoGastronomy and Psychology
Connecting Farms to Local Businesses: An Analysis of Local Food Distribution and Challenges in Southern New Hampshire
Adviser: Daniel Winans

Gabrielle Durante
EcoGastronomy and English Literature
Pollinator Gardening for the Urban Farmer
Adviser: Daniel Winans

Kathleen Ernsting
EcoGastronomy and Hospitality Management
Exploring Event Planning: How to Utilize Local Resources and Overcome Challenges to Remain a Sustainable Food Business in New England
Adviser: Daniel Winans

Kelly Giller
EcoGastronomy and Hospitality Management
Value Added Products In New England Dairy Farms
Adviser: Daniel Winans

Mickey Gilligan
Kimberly Mayo
EcoGastronomy and Nutrition
The Local Tomato: A Sustainably Delicious Food Trolley on the UNH Campus
Adviser: Daniel Winans

Carrie Anne Harmon
EcoGastronomy and Hospitality Management
The Knoble Rot: Business Proposal for Wine Store and Tapas Bar
Adviser: Daniel Winans

Hannah Hoban
EcoGastronomy and Recreation Management and Policy
The Edible Green: An Edible Landscape for New England Country Clubs
Adviser: Daniel Winans

Erin Jackson
EcoGastronomy and Entrepreneurial Studies
Dry Technology Business Plan: Revolutionizing the Textiles Market
Adviser: Robert Gough

Jennifer Lane
Maura McCartney
EcoGastronomy and Nutrition
A Proposal to Implement Field Experience and Experimental Learning to the EcoGastronomy Capstone Class
Adviser: Daniel Winans

Gina Puorro
EcoGastronomy and Art History
Keep Growing: Mapping the North Country’s Food System
Adviser: Daniel Winans

Elizabeth Puris
Geraldine Walker
EcoGastronomy and Sustainable Agriculture and Food Systems
The Farm Studio: An Intimate Look at Sustainable Agriculture in New Hampshire
Adviser: Daniel Winans

Rebecca Rothman
EcoGastronomy and Hospitality Management
The Role of Food and Beverage Managers in Ensuring a Sustainable Future
Adviser: Daniel Winans

Sara Schmidt
EcoGastronomy and Hospitality Management
Breaking Down American Breakfast: The Evolution of the Tradition
Adviser: Daniel Winans

Kelley Simpson
EcoGastronomy and Nutrition
Back2Basics: Nutritious, Home-cooked Granola Bars with Simple, All-natural Ingredients
Adviser: Daniel Winans

Stephanie Terenzi
EcoGastronomy and Nutrition
Having a Ball: A Guide to Home Food Production and Preservation
Adviser: Daniel Winans

Michelle Wong
EcoGastronomy and Hospitality Management
Sea to Table: Exploring Aquaculture in Tanzania
Adviser: Daniel Winans

Paul College Great Hall
10–11:30a.m.

Economics Capstone Research Projects (Posters)
Moderator and Adviser: Karen Smith Conway

Anthony Albano
Economics
Effect of Fossil Fuel Prices on U.S. Consumption of Solar Energy

Jonathan Barry
Economics
Does New Mutual Fund Money Follow Recent Mutual Fund Success?

Erin Bogan
Economics
Does Climate-Induced Happiness Play a Role in Suicide Prevention?

Gina Puorro
Economics
Effectiveness of Prescription Drug Monitoring Programs on Reducing Opiate Overdose Incidences
Adviser: Karen Conway

Allison Casey
International Affairs and Economics
The Effect of Affluence on Low-Income Student Test Scores
Christopher Celi
Economics
The Market for Water: Supply, Demand, and Viable Solutions for the Long-Term

Michael Cohn
Economics
Does Financial News Affect Stock Prices?

Goran Galic
Economics
The Economic Benefits of the FIFA World Cup

Scot Hein
Economics
The Effects of Gun Control on Violent Crimes

William Kluber
Economics
An Economic Study of Tuition Rates and the Demand for a College Education

Lawrence McQuaid
Economics
The Effect of Fast Food Restaurant Location on Obesity

Brian Morin
Economics
Macroeconomic Factors and U.S. Congressional Election Outcomes

Eileen O’Leary
Economics
Factors Affecting Corporate Charitable Donations

Abigail Palmatier
Economics and Political Science
A Cobweb Model of Engineers

Stephen Potts
Economics and Information Technology
Moneyball in Baseball

Tollan Renner
Statistics and Economics
The Economic Effects of the New Hampshire Liquor Commission and Policy Implications

Laura Roach
Economics
The Effect of Conscription on Innovation

Derek Scanlon
Economics
The Effects of Foreign Direct Investment on Employment and Wages in the Home Country

Joseph Sinotte
Economics
How New Product Announcements Affect Stock Market Prices of Competing Firms

Kelly Spencer
Economics
Harry Potter and the Dynamics of Book Sales

Nicholas Wons
Economics
Confidence Effects on IPO’s

Paul College, Room G45
10–11:30a.m.

Honors Macroeconomics
Moderator and Adviser: James Wible

Austin Bauer
Undeclared
A Macroeconomic Analysis of Portugal

Stephen Campbell
Undeclared
A Macroeconomic Analysis of China

Daniel Coste
Economics
A Macroeconomic Analysis of Japan

Kevin Dwyer
International Affairs and Spanish
A Macroeconomic Analysis of Argentina

Margaret Ferguson
Accounting
A Macroeconomic Analysis of Ireland

Dominic Ferreira
Undeclared
A Macroeconomic Analysis of Switzerland
Adviser: James Wible

David Gottschalk
Mechanical Engineering
A Macroeconomic Analysis of Germany

Jeffrey Lertora
Undeclared
A Macroeconomic Analysis of England

Kathryn Maguire
Hospitality Management
A Macroeconomic Analysis of Canada

Eric Murray
Economics
A Macroeconomic Analysis of Italy

Adam Staszkiewicz
Humanities
A Macroeconomic Analysis of Norway

Robert Swan
Mechanical Engineering
A Macroeconomic Analysis of Modern Russia

Tycho Tromp
Biomedical Science
A Macroeconomic Analysis of The Netherlands

Craig Tyer
Economics
A Macroeconomic Analysis of Spain

John Wallace
Economics
A Macroeconomic Analysis of Brazil

Allyson Werth
Management
A Macroeconomic Analysis of Mexico

Rebecca Wuorio
Economics
A Macroeconomic Analysis of Finland

Paul College, Great Hall
Noon–1:30p.m.

International Business and Economics
Moderator and Adviser:
Meera Venkatachalam

Megan McCann
International Business and Economics
Female Authority in a Globalizing Marketplace
Paul College, Room G45  
Noon–1:30p.m.  

**Law and Economics (Posters)**  
Moderator and Adviser: James Wible

- **Jeffrey Agnew**  
  History and Political Science  
  *An Economic Analysis of Reckis v. Johnson and Johnson*

- **Christopher Celi**  
  Economics  
  *An Economic Analysis of Almeder v. Kennebunkport*

- **Michael Cohn**  
  Economics  
  *An Economic Analysis of Whitmill v. Warner Bros.*

- **Brendan Gallagher**  
  Economics  
  *An Economic Analysis of Knight v. Jewett*

- **Craig Hooker**  
  Economics and English  
  *An Economic Analysis of Gove v. ZBA of Chatham*

- **Kemal Kadic**  
  Finance and Economics  
  *An Economic Analysis of Salinger v. Colting*

- **Benjamin Kidder**  
  History and Economics  
  *An Economics Analysis of Barrington v. Townsend*

- **William Kluber**  
  Economics  
  *An Economic Analysis of Tiffany v. Ebay*

- **Benjamin Morrow**  
  Finance  
  *An Economic Analysis of Wiley v. Kirtsaeng*

- **Andrew O’Connor**  
  Finance and Economics  
  *An Economic Analysis of U.S. v. Bernard Madoff*

- **Eileen O’Leary**  
  Economics  
  *An Economic Analysis of Whitman v. Goldberg*

- **Michael Restuccia**  
  Economics  
  *An Economic Analysis of Liebeck v. McDonalds*

- **Derek Scanlon**  
  Economics  
  *An Economic Analysis of Tyler v. Hannaford Brothers*

- **Harrison Shea**  
  Finance and Economics  
  *An Economic Analysis of Kelo v. New London*

- **Dana Steele**  
  Finance  
  *An Economic Analysis of Yamanouchi Pharmaceutical v. Danbury Pharmacal*

- **Rhett Terrell**  
  Economics  
  *An Economic Analysis of Residents Defending Their Homes v. Lone Pine Hunters’ Club*

- **Christopher Wallace**  
  Accounting  
  *An Economic Analysis of Tarlton v. Kaufman*

- **Nicholas Wons**  
  Economics  
  *An Economic Analysis of Benevolent Assoc. v. Crescent Landing*

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**Paul College, Great Hall  
Noon–1:30p.m.**

**Marketing Presentations (Posters)**

Moderator: Melissa Bishop

- **Oliver Alderman**  
  Marketing  
  *Analytical Ice Cream Overview (Low-Cal-Pal)*  
  Adviser: M. Billur Akdeniz

- **Emily Gatsas**  
  Marketing  
  *Finding Success in Emerging Markets*  
  Adviser: Bruce Pfeiffer

- **Lindsay Jeffries**  
  Marketing  
  *Analytical Marketing Plan for New Shampoo Introduction*  
  Adviser: M. Billur Akdeniz

- **Lindsay Lavin**  
  Marketing  
  *Impact of Visual Merchandising on University of New Hampshire Students*  
  Adviser: Bruce Pfeiffer

- **Nicola Olsen**  
  Marketing  
  *The Beauty Industry’s Influence on Women in Society*  
  Adviser: Bruce Pfeiffer

- **Nicole Avedikian**  
  Marketing  
  *Elegance By Design*  
  Adviser: Melissa Bishop

- **Nicole Olsen**  
  Marketing  
  *Analytical Marketing Plan for New Shampoo Introduction*  
  Adviser: M. Billur Akdeniz

- **Sarah Daigle**  
  Marketing  
  *Finding Success in Emerging Markets*  
  Adviser: Bruce Pfeiffer

- **Sean Stewart**  
  Marketing  
  *Analytical Marketing Plan for New Shampoo Introduction*  
  Adviser: M. Billur Akdeniz

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Peter T. Paul College of Business and Economics Undergraduate Research Conference

Oral Presentations

Friday, April 26
Paul College Building

Through original research and valuable guidance from mentors, this event helps students gain deeper academic knowledge as well as professional experience. This URC event includes poster presentations, oral presentations, and feedback from University and business leaders.

Paul College, Room 125
10–11:30a.m.

Atkins Investment Group

Moderators and Advisers:
Stephen Ciccone and Ahmad Etebari

Charles Almeida
Accounting and Management
Nicholas Sorkin
Lucas Winthrop
Finance
Technology

Janine Appleton
Biomedical Science
John Kerrigan
Finance
Brian Lowell
Accounting and Finance
Healthcare

Jonathan Bartholomew
International Business and Economics and Finance

Douglas Cataldo
Finance and Management

Daniel Cray
Accounting and Finance
Financials

Ryan Bell
Finance and Information Systems
Management

Victoria Hexeberg
International Business and Economics and Finance

Maria von Svoboda
Finance
Consumer Discretionary

Steven Buske
Computer Science

Daniel Kraft
Finance and Economics

William McCarran
Finance and Entrepreneurial Studies
Basic Materials

Greg Carter
Economics
Energy

Nicholas Castaldi
Benjamin Schenck
Finance

Eric Harwood
Economics

Officers of Atkins Investment Group

Christopher Doyle
Samantha-Jo Virga
Economics

Connor Slein
Political Science
Portfolio Strategy

Charles Kidd
International Business and Economics

Gustav Nilsson
Harrison Shea
Finance and Economics
Consumer Staples

James Miller
Tyler Walsh
Accounting and Finance

Scott Morris
Management and Finance
Industrials

Brandon Ossinger
Finance and Information Systems
Management

Caitlin Tappan
Finance and International Business and Economics

Jeffrey Wyer
Finance
Telecom

Austin Perea
Political Science and Economics
Socially Responsible

Caitlin Schlesinger
Joseph Stanek
Finance and Economics

James Taylor
Accounting and Finance
Utilities

Paul College, Room 135
10–11:30a.m.

Marketing Workshops, Session I

Moderator and Adviser:
Peter Masucci

Travis Dadoly
Hannah DeBenedictis

Lindsay Jeffries
Kristin Mayo

Chase Meyers
Julie Morris

John Neenan
Rebecca Risman

Jessica Rousseau
Marketing

Assessing and Measuring the Value of Athletics to the UNH Brand, and Promoting Increased Attendance at Events to Undergraduate Students at UNH
Paul Annand  
Gavin Bennett  
Michael Cerulli  
Christopher Cover  
David Goodsell  
Kelly Johnson  
Christopher Lorenzo  
Alissa Marks  
Melissa Terry  
Kevin Walker  
Marketing  
Assessing the Effectiveness of UNH Admissions Programs in Reaching Targeted Audiences

Nicholas Barnes  
Julia Germano  
Kyle Hatem  
Jenna Kucinskas  
James Mistovich  
Ryan Mullen  
Nathan Stavseth  
Lauren Steed  
Shawn Stuber  
Marketing  
Ann Marie Britton  
Marketing and International Business and Economics  
Boston Therapeutics: Research and Development of a Marketing Plan for SUGARDOWN,* a Dietary Supplement for Managing Sugar Intake, Which Targets the College-Aged Demographic Group

Brittany Emerson  
Kristen Kouloheras  
Dana Pandorf  
Marketing and International Business and Economics  
Daniel Imbriaco  
Kaitlin Kilpatrick  
Eric Labonte  
Miranda Martinos  
Ryan McFarlane  
Justin Patrie  
Joseph Peterson  
Nicole Spinosa  
Marketing  
Chipotle Mexican Grill: Research and Development of Marketing Programs Aimed at Raising Awareness of the Student Brand Manager Positions with Chipotle to Both College and High School Students

Tyler Bascom  
Jennifer Caponetti  
Kailey Chappell  
Paige Goloubef  
Nathan Laperle  
Andrew Lessard  
Matthew Liedes  
Christopher Pham  
Eric Schultheis  
Marketing  
Dylan Manz  
Marketing and Entrepreneurial Studies  
Enterprise Rent A Car: Research and Development of a Marketing Campaign to Increase Awareness and Use of Enterprise as a Transportation Option by UNH Students

Patrick Barnard  
Mikayla Cadoret  
Mike Deering  
Brendan Flaherty  
Heather Kelly  
Derwood Mason  
Shannon Mulligan  
Emily Philpott  
Katherine Tancreti  
Ryan Ward  
Marketing  
Samuel Nute  
Marketing and Entrepreneurial Studies  
eUNH Part 1: A Study Measuring Awareness Levels and Student Perceptions of Online Courses

Chris Cardarelli  
Brittney Carnes  
Ashley Clifford  
Justin Corcoran  
Kevin Cronin  
Julia Longley  
Anna Powers  
Sarah Smith  
Meaghan Sullivan  
Marketing  
Peter Maxfield  
Entrepreneurial Studies and Marketing  
eUNH Part 2: A Continuing Study to Measure Both College and High School Student Awareness and Perceptions of Online Education

Paul College, Room 135  
Noon–1:30 p.m.  

Marketing Workshops, Session II

Moderator and Adviser:  
Peter Masucci  
Nicole Avedikian  
Bailey Bartlett  
Brianna DeLuca  
Charles MacCall  
Rory McCarthy  
Ryan McKane  
Nicole Olsen  
Amy Polaneckzy  
Jordan Thomas  
Justin Voellmann  
Marketing  
FreePriceAlerts.com: Development of a Marketing Campaign to Increase Awareness of the Brand and Promote Its Use Among College Students

Cody Bernard  
Erik Chesna  
Heather Dion  
John Doinsneau  
Lindsay Lavin  
Cynthia O’Brien  
Gregory Pachner  
Carlsta Robinson  
Andrew Styles  
Kelly Sullivan  
Joseph Yalicki  
Marketing  
Research and Development of a Comprehensive Marketing Campaign to Promote the Image of, and Use of UNH Campus Recreation Facilities and Programs

Jonathan Boghigian  
Colin Champagne  
Michael Dwyer  
Thomas Fitzsimmons  
Alexandra Robichaud  
Baron Vogel  
Marketing  
Sarah MacLellan  
Marketing and Management  
Seacoast Reads: Design and Development of a Marketing Plan to Raise Awareness and Promote the Program
Robert Cormier  
Management and Marketing

Alex Gormley  
Dennis Kapsimalis  
Mary Kavjian  
Michael Marshall  
Timothy McCarthy  
Samantha Philbrick  
Justin Pleadwell  
Sean Stewart  
Marketing

Hannah Shoer  
Management and Marketing

TurnRight.com: Development of a Marketing Campaign to Increase Awareness of the Brand and Use of Its Online Mentoring and Advising Services by College Students

Ariel Buchholz  
Joseph Cappiello  
Emily Gatsas  
Trevor Leahy  
Zachary Racine  
Eric Raiche  
Sean Reagan  
Marketing

Design and Development of a Marketing Campaign for the Healthy UNH Initiative

Bailey Comyns  
Brennan Conley  
Julianne Edwards  
Alexander Guilbeault  
Nicholas Hogan  
Natalie Kerman  
Michael Levy  
Kasandra Michajlov  
Karah Rogers  
Samuel Watkinson  
Marketing

Sarah Perron  
International Affairs and Marketing

Research and Development of a Marketing Plan to Raise Awareness of Information Technology (IT) Security

Oliver Alderman  
Ethan Ash  
Jennifer Azarian  
Michael Bakies  
James Cassin-Reed  
John DeMichaelis  
Jason Metzenroth  
Gregory Silverman  
Samantha Watterson  
Ariel Yardeni  
Marketing

Special Olympics: Development of a Marketing Campaign to Promote the Penguin Plunge Fundraising Event

Paul College, Room 125  
12–1:30 p.m.

Multidisciplinary Oral Presentations

Moderator: Valentini Kalargyrou

Komot Gabriel  
International Business and Economics

Lessons for South Sudan: Corruption and Economic Development  
Adviser: Bruce Elmslie

Alex Gormley  
Eric Labonte  
Marketing

Dylan Manz  
Marketing and Entrepreneurial Studies

Tyler Stubbs  
Information Systems Management and Entrepreneurial Venture Creation  
Prestige Coffee  
Adviser: M. Billur Akdeniz

Louis Jacobs  
Economics and Mathematics

Institutions and Growth  
Adviser: Bruce Elmslie

Samantha Pheffer  
Accounting and Management

Casino Accounting Procedures: A Case Study of Foxwoods Resort Casino  
Adviser: Valentini Kalargyrou

Christopher Schwab  
Information Systems Management

The Next Generation of Entrepreneurs  
Adviser: A.R. Venkatachalam

Paul College, Room G25  
1:30–3 p.m.

Sustainable Investing and the UNH Endowment: Findings from the Responsible Endowment Research Project

Moderator: Stephen Ciccone

Andrea Dow  
Sociology

Organizational Change in Higher Education: How University Endowments are Making the Shift Towards Sustainable Investing  
Advisers: Thomas Safford, Yusi Turell

Gina Guadagnoli  
History

Responsible Endowments Research Project: Findings and Recommendations  
Adviser: Yusi Turell

Austin Perea  
Political Science and Economics

Environmental, Social, and Governance Factors and Portfolio Performance: An Analysis

Advisers: Stephen Ciccone, Yusi Turell

Peter T. Paul College of Business and Economics

Paul J. Holloway Innovation-to-Market Prize Competition

Bud Albin Challenge Round

Friday, April 26  
1–4 p.m.

Paul College

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.

**The Naked Arts—Creativity Exposed**

**Act III**

**Friday, April 26**
12:15–1 p.m.
Memorial Union Building Strafford Room

This event exposes the inner creative process of artists working in various disciplines. Presenters will describe the process, research, and other creative aspects undertaken to bring an artistic creation from initial inspiration to the stage or gallery. This may include a performance or excerpts from their work to illustrate their creative scholarship.

Joshua Berk  
Ethan Brown  
Nathan Mann  
Undeclared  
Alyssa LeBlanc  
Theatre  
*Pollination Vibration*

Advisers: Szu-Feng Chen, Rob Haskins, Thomas Payne, Leah Woods

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**College of Health and Human Services Grimes Award Competition**

**Friday, April 26**
1:30–4 p.m.
Petree Hall, Room G10

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 CHHS faculty after rigorous scientific review of written proposals.

*Information on participants will be available at the event.*

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**Psychology Department George M. Haslerud Undergraduate Research Conference**

**Friday, April 26**
1:30–5 p.m.
Murkland Hall

The George M. Haslerud Undergraduate Research Conference, named for the late Professor Emeritus of Psychology, recognizes and celebrates undergraduate research conducted by honors psychology students. Students present their original research projects before an audience of UNH faculty, staff, graduate students, fellow undergraduates, and friends and family.

Kaitlyn Cameron  
Psychology  
*Creative Careers and Self-Actualization*

Adviser: Rebecca Warner

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Allison Caplin  
Psychology  
*What are the Relations Among Stress Perception, Health Perception and Activity Participation in School-Aged Children?*  
Adviser: Robert Drugan

Sarah Dobush  
Psychology  
*Anger Proneness, Hostility, and Commitment in Intimate Relationships*

Adviser: Edward Lemay

Saige Jutras  
Psychology  
*Correlates of Help-Seeking Following Stalking Victimization: A Study of College Women*

Advisers: Katie Edwards, Kateryna Sylaska

Tristan Papallo  
Psychology  
*Do Ultrasonic Vocalizations During Intermittent Swim Stress Forecast Resilience in a Subsequent Forced Swim Test?*

Adviser: Robert Drugan

Monica Rosskothen  
Psychology  
*Tiptoeing Around Insecure Relationship Partners: Experimental Evidence that Perceiving Partner’s Insecurity Heightens Vigilance to Threat*

Adviser: Edward Lemay

Kerry Spongberg  
Psychology  
*Interpersonal Confidence and Desire: Implications for Explanations, Emotions, and Behavior in Romantic Relationships*

Adviser: Edward Lemay

Samuel Stevens  
Psychology  
*Trust Biases Perceptions of Romantic Partners’ Hostility and Responsive Behavior*

Adviser: Edward Lemay

Madeline Whitcomb  
Psychology  
*Reflections in Bystander Intervention*

Adviser: Victoria Banyard
Honors English Undergraduate Research Conference

Friday, April 26
2–6 p.m.
Hamilton Smith Hall
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.

Molly Branch
English/Journalism and Women’s Studies
Sisters in Our Mothers’ Gardens: Intimate Female Friendship in Their Eyes Were Watching God
Adviser: Reginald Wilburn

Lynsey Burke
English
A Collection of Poems
Adviser: David Rivard

William Dyke
English
A Pedagogical Analysis of Economic Issues in American History
Adviser: Christina Ortmeier

Robyn Keriazes
International Affairs and English/Journalism
Multimedia Use in Local Newsrooms
Adviser: Andrew Marsters

Lynnette Macomber
Justice Studies and English
Sexual Iconoclasm in Early Modern Drama
Adviser: Jason Zysk

Katy Sternberger
English/Journalism
Books and Religious Reformation in Medieval and Early Modern Drama
Adviser: Jason Zysk

Celina Williamson
Linguistics and Spanish
A Morphological Study of Drug Brand Names
Adviser: Rochelle Lieber

Philosophy Department Undergraduate Research Conference

Friday, April 26
4–8:30 p.m.
Murkland Hall

The Philosophy URC is a mosaic of concise and meaningful student presentations, varying from such philosophical topics as applied ethics, language theory, and social justice. Standard presentations predominantly last fifteen minutes and are subsequently followed by a brief question-and-answer period.

Mark Baroni
Philosophy
The Problem with American Professional Sports
Adviser: Nickolas Smith

Hannah Gilb
Philosophy
Money and the Origins of Philosophy
Adviser: Charlotte Witt

Joshua Hamor
Philosophy
Underground Currents in Ethics or Materialism
Adviser: Nickolas Smith

Stefan Jadaszewski
Psychology and Philosophy
Personal Authority and our Aptitude for Happiness
Adviser: Paul McNamara

Brianna Jean
Philosophy and Mathematics
Structural Scientific Realism
Advisers: Willem De Vries, Val Dusek

Ryan Keenan
Mathematics and Philosophy
A Neuroeconomic Defense of Daniel Haybron on Human Decision-making
Adviser: Paul McNamara

Rebecca Paquette
Philosophy and English Literature
The Paradox of Fiction
Adviser: Paul McNamara

Connor Strobel
Political Science and Philosophy
What of Angelic Violence? Philosophical Reflections on Steven Pinker’s The Better Angels of Our Nature
Adviser: Nickolas Smith

Kevin Vansylyvong
History and Philosophy
Reconciling Foucault and the Modern Historian
Adviser: David Hiley

Christine Warden
Philosophy and Physics
Everything is Relational
Advisers: Drew Christie, Paul McNamara, Charlotte Witt

Justin Ykema
Philosophy
Say What You Mean
Adviser: Willem De Vries
Student Composers’ Concert

Friday, April 26
8 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.

Parker Callahan
Music Theory
Two Pieces for Voice and Piano: “Maybe I Found Him” and “My Mister Summer Love”
Adviser: Christopher Kies

Nathan Faro
Music Theory
Four Postcard Vignettes for Piano
Adviser: Christopher Kies

Trevor Frost
Music Education
Depression, Anxiety, and a Hint of Madness
Adviser: Andrew Boysen

Vincent LaMonica
Music Education and Music Theory
Concerto for English Horn, “Bleu Squid”
I. Aria, Allegro; II. Adagio; III. Theme and Variations
Adviser: Michael Annicchiarico

Molly McCahan
EcoGastronomy and Music Theory
The Tuft of Flowers
Adviser: Michael Annicchiarico

Ian Nelson
Music Education
Ascent
Adviser: Andrew Boysen

Ryan O’Connell
Music Education
Chumalungma
Adviser: Andrew Boysen

Richardson Smith
Music Performance Study and Music Education
Untitled
Adviser: Michael Annicchiarico

22nd Annual COLSA Undergraduate Research Conference

Oral Presentations

Saturday, April 27
7:45 a.m.–2 p.m.
Huddleston Ballroom and Holloway Commons

Nicole Antaya (graduate student)
Dairy Management

Valerie Goeman
Animal Science
Feeding Incremental Levels of Ground Flaxseed Linearly Reduced Milk Yield and Enteric Methane Emissions in Organic Jersey Cows
Adviser: Andre Brito

Sophia Burke
Environmental Sciences
Acoustic Monitoring of Ebullitive Flux From a Mire Ecosystem in Subarctic Sweden
Adviser: Ruth Varner

Evan Ehrlich
Wildlife and Conservation Biology
Analysis of Behavior and Song in Hybrid Male Saltmarsh x Nelson’s Sparrows
Adviser: Adrienne Kovach

Sara Fechner
Nutrition
Development of an Obesity Prevention Program Using Participatory Action Research
Adviser: Gale Carey

Jenny Jing
Biomedical Science
The Affects of Dietary Fatty Acids on Immune Cell Function
Advisers: Anne Ronan, (lab assistant)
Anthony Tagliaferro

Ashley Klink
Biology and Biology

Rajtilak Majumdar
Plant Biology
Effects of Abiotic Stress Factors on S-adenosylmethionine Decarboxylase (SAMDC) Genes on Arabidopsis Thaliana
Adviser: Subhash Minocha

Megan McLaughlin
Genetics
Biofilm Ecology and Diversity Allows for Persistence After Antibiotic Treatment
Adviser: Vaughn Cooper

Lauren Tassone
Biomedical Science
ABO Blood Type and Diet Correlation Study
Adviser: Adele Marone
22nd Annual COLSA Undergraduate Research Conference

Poster Presentations

Saturday, April 27
7:45 a.m.–2 p.m.
Huddleston Ballroom and Holloway Commons

Student presentations at the Annual COLSA URC are based on research conducted in any of the college’s departments. Research ranges from field studies to molecular biology to genomics studies. Registrants will be notified by the COLSA URC committee if they are selected for an oral presentation.

Nicole Antaya
Dairy Management
Valerie Goeman
Erin Murray
Animal Science
Kelp Meal (Ascophyllum nodosum) Did Not Improve Milk Yield or Mitigate Heat Stress but Increased Milk Iodine in Mid Lactation Organic Jersey Cows During the Grazing Season
Adviser: Andre Brito

Nicole Ashmankas
Zoology
Detection of Pressure in Juvenile Limulus polyphemus
Adviser: Winsor Watson

Nicholas Bates
Parker Gage
Thomas Ilaria
Shawn Ryan
Environmental and Resource Economics
Fracking: Facts and Fiction
Adviser: John Halstead

Matthew Blunt
Civil Technology and Applied Business Management
GIS Analysis of Diet and Cancer Rates in Mediterranean Countries
Adviser: Anthony Vannozzi

Christopher Bottom
Cody Merrill (graduate student)
Kelsey Wellington
Wildlife and Conservation Biology
Developing a Protocol to Standardize Detection Rates By Trail Cameras Used to Monitor Forest Carnivores
Adviser: John Litvaitis

Alexandra Bourcy
Crystal Cascio
Sarah Maskwa
Nutrition
Guiding Stars at the UNH Dairy Bar
Advisers: Gale Carey, Jesse Morrell

Allison Brehm
Stephanie Walsh
Zoology
Synchrony as a Proxy for Male Fitness in Baiting Behaviors of the Spotted Hyena, Crocuta crocuta
Adviser: Leslie Curren

Aurora Burgess
Marine, Estuarine and Freshwater Biology
The Effect of Stocking Density, Temperature, and Fish Size on Ammonia Production in Alewives (alosa pseudoharengus)
Adviser: David Berlinsky

Elizabeth Burgess
Genetics
The Effects of Cytokinin on the Transcriptional Regulation of PIN Expression in Arabidopsis thaliana
Adviser: Dennis Mathews

Patricia Calvin
Biomedical Science
Big Cats in Conflict: Namibia’s Challenge in Managing and Protecting Predators on Communal and Commercial Farm Land
Adviser: Andrew Conroy

Andrew Campbell
Environmental Sciences
Photosynthetically Active Radiation Associated with the Presence and Growth of an Invasive Tree, Castor Aralia (Kalopanax septemlobus), in a New Hampshire Forest
Adviser: Thomas Lee

Kevin Chesmore (graduate student)
Scott Finnance
Cody White
Neuroscience and Behavior
Identification of the Circadian Clock Gene and Protein Cryptochrome-2 in the American Lobster, Homarus americanus
Advisers: Chris Chabot, Winsor Watson

Emmaline Clarkson
Biology
Adviser: Donald Chandler

Ben Claxton
Biochemistry, Molecular, and Cellular Biology
Is Cytoplasmic Sequestration of p53 Characteristic of Cells From a Clinical Population of Acute Myelogenous Leukemia (AML) Patients and is Mortalin Involved?
Adviser: Charles Walker

Logan Cline
Biology
Effects of Exotic Shrub Glossy Buckthorn (Frangula alnus) on the Diet Composition of Nestling Common Yellowthroats
Adviser: Matthew Tarr

Alison Cocchiola
Biology
Guiding Stars at the UNH Dairy Bar
Advisers: Gale Carey, Jesse Morrell

Aurora Burgess
Genetics
The Effects of Cytokinin on the Transcriptional Regulation of PIN Expression in Arabidopsis thaliana
Adviser: Dennis Mathews

Nicholas Bates
Parker Gage
Thomas Ilaria
Shawn Ryan
Environmental and Resource Economics
Fracking: Facts and Fiction
Adviser: John Halstead

Matthew Blunt
Civil Technology and Applied Business Management
GIS Analysis of Diet and Cancer Rates in Mediterranean Countries
Adviser: Anthony Vannozzi
Cameron Duquette  
Wildlife and Conservation Biology  
An Evaluation of Managed Nesting Habitats for Turtles in Southeastern New Hampshire  
Adviser: John Litvaitis

Emily Elgert  
Neuroscience and Behavior  
Norepinephrine Involvement in the Intermittent Swim Stress-Induced Deficit in Spatial Learning and Memory  
Adviser: Robert Drugan

Scott Finnance  
Neuroscience and Behavior

Sara McKinney  
Animal Science  
The Possible Role of Extra-ocular Photoreceptors in the Entrainment of Lobster Circadian Rhythms to Light:Dark Cycles  
Adviser: Winsor Watson

Maegan Gagne (graduate student)  
Rajtilak Majumdar (graduate student)  
Heather Wingate (graduate student)

Daniel Gallant  
Biomedical Science  
Assessing Inflammatory Markers in Grain Fed vs. Pasture Fed Dairy Cows  
Adviser: Thomas Foxall

Evagelia Georgakilas  
Nutrition  
The Investigation of Microbe-Nematode Interactions  
Adviser: Matthew Tarr

Natalie Hall  
Plant Biology  
Protection of Arabidopsis Thaliana from Abiotic Stressors by Putrescine  
Adviser: Subhash Minocha
<table>
<thead>
<tr>
<th>Author</th>
<th>Department</th>
<th>Title</th>
<th>Adviser/Advisers</th>
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</thead>
<tbody>
<tr>
<td>Ashley Heim</td>
<td>Zoology</td>
<td>Boldness in the Asian House Gecko, Hemidactylus frenatus, and Its Relationship to Running Speed, Bite Force, and Mass</td>
<td>Adviser: Leslie Curren</td>
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<tr>
<td>Charlene Higgins</td>
<td>Environmental and Resource Economics</td>
<td>Barriers and Opportunities of Community Gardening Projects in New Hampshire</td>
<td>Adviser: John Halstead</td>
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<td>Daniel Hocking</td>
<td>Environmental Sciences</td>
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<td>Patrick Sargent</td>
<td>Biomedical Science</td>
<td>Relating Hematological Patterns in Red-backed Salamanders to Stress in Different Habitats and Densities</td>
<td>Adviser: Kimberly Babbitt</td>
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<tr>
<td>Marissa Huppe</td>
<td>Integrated Agricultural Management: Veterinary Tec</td>
<td>Developing an Integrated Agricultural Enterprise on 12 Acres in Farmington, N.H.</td>
<td>Adviser: Andrew Conroy</td>
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<td>Brian Hurley</td>
<td>Biology</td>
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<tr>
<td>Ashley Matthews</td>
<td>(graduate student) Biomedical Science</td>
<td>Production of Neoculin (a Taste Modifying Protein) in Vegetables Through Genetic Engineering</td>
<td>Adviser: Subhash Minocha</td>
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<tr>
<td>Sheldon Hurst IV</td>
<td>(graduate student) Biology</td>
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<td>Lauren Petersen</td>
<td>(graduate student)</td>
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<td>Kaitlyn LaCourse</td>
<td>Biochemistry, Molecular, and Cellular Biology</td>
<td>Identification of genetic loci involved in Serratia sp. SCBI production of antimicrobial agents</td>
<td>Adviser: Louis Tisa</td>
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<tr>
<td>Katie Kozacka</td>
<td>Biochemistry, Molecular, and Cellular Biology</td>
<td>Proteomic Identification of Preferential Interactions between PDE6 Catalytic Subunits and its Inhibitory Subunit</td>
<td>Advisers: Feixia Chu, Rick Cote</td>
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<td>Moire Loftus</td>
<td>Zoology</td>
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<td>Alec Luro</td>
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Chemistry Department Poster Exhibition

Friday, May 3
3–4 p.m.
Parsons Hall
Iddles Lobby

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 advisers.

Stephan Barkley
Chemistry
Polymer-based Indicators
Adviser: W. Rudolf Seitz

Elizabeth Brady (graduate student)
Kelsey Packard
Chemistry
Austin Gregoire
Undeclared
Understanding the Whirlpool Process in the Beer Brewing Industry by Monitoring Iso-Alpha-Acid Concentration
Adviser: Sterling Tomellini

Muong Dang
Chemistry and Chemistry and Chemistry
The Comparison Between Vietnam and the United States Chemistry Training
Adviser: Charles Zercher

Kathryn Dube
Chemistry
Selective Olefin Metathesis as Intra-chain Crosslinking Towards Nanoparticle Formation
Adviser: Erik Berda

Meaghan Elrick
Chemistry
Pedagogy for Pre-Collegiate Scientific Education
Adviser: Charles Zercher

Justin Fleming
Chemistry
Synthesis and Applications of Tricyclic Bisoxaminals
Advisers: Gary Weisman, Edward Wong

Katherine Grzejka
Chemistry
Progress Towards 2-(Aminomethyl)-Benzenethiol for Use in Modeling Biological Metal-thiolate Bonds
Adviser: Samuel Pazicni

Brian Kispert
Chemistry
Studies of Stoichiometric Monobenzylation of Cross-bridged Cyclam by SN2 Alkylation and Reductive Alkylation
Advisers: Gary Weisman, Edward Wong

Michael Marallo
Chemistry
Applied Techniques for Tutoring General Chemistry Students
Advisers: Charles Zercher

Hilary Miller
Chemistry and Spanish
Benzyl Group Migration and Exchange in Arenium Ions
Adviser: Richard Johnson

Jean Remy Mutumwa
Chemistry and Chemistry
The Comparison Between Vietnam and the United States Chemistry Training
Adviser: Charles Zercher

Kathryn Thomson
Environmental Sciences
Environmental Change in the Great Basin Over the Past Century
Adviser: Rebecca Rowe

Jonathan Trudeau
Wildlife and Conservation Biology
Ecology and Social Structure of Black Bears in Central New Hampshire
Adviser: Peter Pekins

Sophie Trusty
Sustainable Agriculture and Food Systems
Effects of Agricultural Management Practices on Soil Properties and Weed Seed Banks at the UNH Organic Garden
Adviser: Richard Smith

Cameron Vergato
Biomedical Science
How Does DNA Damage from Etoposide Stress and Treatment With Mortalin siRNA Change the Expression of p53 and Mortalin in KG-1 Acute Myelogenous Leukemia Cells?
Adviser: Charles Walker

Inga Sidor (graduate student)
Andrew Walant
Biomedical Science
Real-time PCR Validation and Sensitivity Analyses in the Quantification of Human Fecal Molecular Markers to Detect Non-Point Sources of Nitrogen in Surface Water
Adviser: John Bucci

Jillian Smith
Nutrition and Spanish
Variations in Carotenoids in Plasma from Jersey Cows at an Organic Dairy Compared to a Conventional Dairy Over Time
Adviser: Joanne Curran-Celentano

Elizabeth Sterndale
Environmental Conservation Studies
Asamang, Ghana: A Community Perception of Water Quality
Adviser: Rosemary Caron

Yang Tang
Biomedical Science
RIG-1 Structure and Function
Adviser: Feixia Chu

Kathryn Thomson
Environmental Sciences
Environmental Change in the Great Basin Over the Past Century
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Adviser: Charles Walker
Shannon Poges
Chemistry
Polyketone Acene Mimics
Adviser: Glen Miller

Benjamin Rogers
Chemistry
Synthesis of Polymeric Nanostructures by the Palladium-catalyzed Sonogashira Coupling
Adviser: Erik Berda

Gregory Samuel
Chemistry
Teaching Chemistry Through Fieldwork
Adviser: Charles Zercher

Amanda St. Jean
Chemistry
The Double Chain Extension
Adviser: Charles Zercher

Meghan Tobin
Chemistry
Synthetic Approach to 5,6-Benzo-1-azabicyclo[2.2.2]octane-2-one: A Lactam Having Zero Resonance Energy
Adviser: Arthur Greenberg

Brittany White
Chemistry
Novel Carbocation Rearrangements of Polycyclic Compounds
Adviser: Richard Johnson

Alexandra Wood
Chemistry
History of Alpha Chi Sigma
Adviser: Charles Zercher

Peter T. Paul College of Business and Economics
Paul J. Holloway
Innovation-to-Market Prize Competition
Championship Round
Wednesday, May 8
1–5 p.m.
Holloway Commons
Squamscott Room

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.
Acknowledgements

The UNH Undergraduate Research Conference has grown to become a signature event at the University, an annual highlight of the spring semester and one of the largest and most diverse conferences of its kind. Bringing the URC to fruition each year is the result of a collaborative, behind-the-scenes network of a great many campus community members. Here, we acknowledge these individuals and campus institutions, and thank them for helping make URC 2013 happen.

Special thanks to:
UNH Parents Association
Office of the Vice President for Student and Academic Services
Office of the Senior Vice Provost for Engagement and Academic Outreach
All Faculty Mentors

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College of Engineering and Physical Sciences (CEPS) Dean’s Office
College of Life Sciences and Agriculture
Department of Chemical Engineering
Department of Civil Engineering
Hamel Center for Undergraduate Research
Institute for the Study of Earth, Oceans, and Space
Memorial Union Building Administrative Staff
New Hampshire NASA Experimental Program to Stimulate Competitive Research (EPSCoR)
New Hampshire Space Grant Consortium
Phi Beta Kappa
The University Honors Program
The University Writing Programs
UNH Advancement
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URC Program Assistants Rebecca Howard ’14 and Julia Ricciardi ’16
Web Solutions

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Janet Cass, Director, Parents Association
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Rose Whitmore and Molly Tetreault, Interim Directors, Connors Writing Center
Jim Wible, Professor, Economics
Julie Williams, Senior Vice Provost, Engagement and Academic Outreach

2013 URC Event Chairs/Co-chairs:

Mike Annicchiarico, Student Composers’ Concert
Tim Barretto, Thompson School, Community Leadership Program
Carole Berry, Karen Burnett-Kurie, Nivedita Gupta, Ruth Varner, Interdisciplinary Science & Engineering Symposium
Mathew Biondolillo, Susan Moore, David Pillemers, Psychology Department
George M. Haslerud URC
Janet Cass, Lynne Cooper, Parents Association Undergraduate Research Symposium
Vaughn Cooper, 22nd Annual COLSA URC
Jay Derick, Mike Griswold, Cari Moorhead, Graduate Research Conference
Willem deVries, Eliza Wood, Philosophy Department Undergraduate Research Conference
Marianne Fortescue, UNH Office of Community Service Student Partnerships
Laura Hill, James Wible, Paul College Undergraduate Research Conference
Delia Konzett, Honors English Undergraduate Research Conference
Jessica Lepler, History Department Undergraduate Research Conference
Catherine Mazur, 2013 Senior B.A. & B.F.A. Art Exhibition & Reception and M.F.A. Thesis Exhibition
Mike Merenda, Cynthia Nizzari-McClain, Paul College Holloway Prize University-wide Innovation-to-Market Poster Session and Championship Round Competition
Thomas Payne, Naked Arts—Creativity Exposed!
Dan Reagan, UNHM Undergraduate Research Conference - Oral, Poster, Cinema Arts Day, and Technology Day
Cindi Rohwer, Chemistry Department Poster Exhibition
Neil Vroman, CHHS Grimes Award Competition
Jim Wible, Laura Hill
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