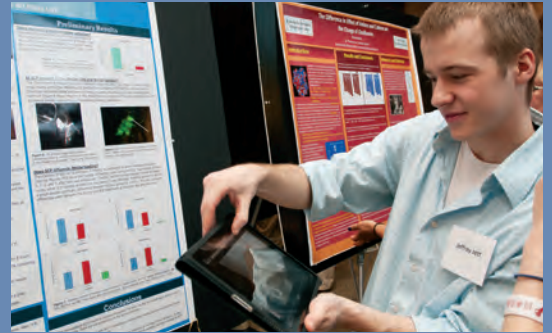


April 13–28, 2012

“Being able to turn an idea into
an opportunity has been both a
challenge and a learning experience
that I will remember forever.”



“It was great to share my hard work
with my parents and show them,
in a professional manner, what
I have strived to accomplish this
past year.”



“I became part
of a prestigious
academic
community
and that was
exciting.”



URC 2012

A welcome to participants and attendees



MARK W. HUDDLESTON



JOHN D. ABER

WELCOME to the 13TH 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 now one of the largest and most diverse in the nation, and this year marks another record in participation. More than 1,100 students will present their findings at events across both the Durham and Manchester campuses, and represent academic achievements in every college and school.

This extraordinary learning experience helps students build the 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,

A handwritten signature in black ink, appearing to read "Mark W. Huddleston".

MARK W. HUDDLESTON, PRESIDENT

A handwritten signature in black ink, appearing to read "John D. Aber".

JOHN D. ABER, PROVOST

Inquiry, Discovery, and Engagement:

The UNH Undergraduate Research Conference



JULIE E. WILLIAMS

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 1,100 UNH students mentored by more than 300 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.



PETER MASUCCI

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

PETER F. MASUCCI, CHAIR, URC PLANNING COMMITTEE

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All events are free and open to the public.

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

URC 2012 Calendar

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

Friday, April 13

6–8 p.m.

2012 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 20, 2012)

Monday & Tuesday, April 16–17

Monday 5–7 p.m.

Graduate Research Conference (GRC)

Poster Presentations

Huddleston Hall Ballroom **(1)**

Tuesday 9 a.m.–3 p.m.

Graduate Research Conference (GRC)

Oral Presentations

Memorial Union Building **(3)**

Friday & Saturday, April 20–21

Friday, 6:30–7:30 p.m.

McNair Scholars Program 20th
Anniversary Research Symposium
Poster Presentations

Memorial Union Building **(3)**

Saturday, 9:30 a.m.–4:30 p.m.

McNair Scholars Program 20th
Anniversary Research Symposium
Oral Presentations

Memorial Union Building **(3)**

Monday, April 23

10:30 a.m.–Noon

Seacoast Reads Exhibition

Thompson School Community
Leadership Program

UNH Office of Community Service
Student Partnerships

Memorial Union Building **(3)**

Rooms 330/332 and 334/336

Tuesday, April 24

10 a.m.–2 p.m.

UNH Manchester Undergraduate
Research Conference

Oral Presentations

UNHM Auditorium

Wednesday, April 25

9 a.m.–6 p.m.

Whittemore School of Business
and Economics Undergraduate
Research Conference

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.

Whittemore School of Business and
Economics University-wide

Paul J. Holloway Prize

Innovation-to-Market Competition

Charles & Miriam Nelson Poster Round

Memorial Union Building **(3)**

2–5 p.m.

Interdisciplinary Science and

Engineering (ISE) Symposium

Morse Hall and Kingsbury Hall **(8 & 9)**

3:30–6 p.m.

UNH Manchester Undergraduate

Research Conference

Poster Presentations

UNH Manchester, Auditorium

Thursday, April 26

10 a.m.–1 p.m.

UNH Manchester Undergraduate

Research Conference

Cinema Arts Day

UNH Manchester, 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

Rooms 338/340 and 302 **(3)**

Friday, April 27

8 a.m.–Noon

UNH Manchester Undergraduate

Research Conference Engineering

Technology Senior Project

Presentations

UNH Manchester, Auditorium

9–9:30 a.m.

Parents Association Undergraduate

Research Symposium Breakfast

Memorial Union Building

Granite State Room **(3)**

9:30 a.m.–3 p.m.

Parents Association Undergraduate

Research Symposium

Poster and Oral Presentations

Memorial Union Building **(3)**

Granite State Room and Assigned Rooms

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, Room G-10 **(10)**

1:30–5 p.m.

Psychology Department

George M. Haslerud Undergraduate

Research Conference

Murkland Hall, Room 115 **(5)**

2–6 p.m.

Honors English Undergraduate

Research Conference

Hamilton Smith Hall **(4)**

English Department

3:30–5 p.m.

Hamel Center for Undergraduate

Research 25th Anniversary Reception

Cole Hall **(11)**

4–8:30 p.m.

Philosophy Department

Undergraduate Research Conference

Murkland Hall, Room G17 **(5)**

8 p.m.

Student Composers' Concert

Paul Creative Arts Center **(6)**

Bratton Recital Hall

Saturday, April 28

7:45 a.m.–2 p.m.

21st Annual College of Life Sciences

and Agriculture (COLSA)

Undergraduate Research Conference

Huddleston Hall Ballroom **(1)**

and Holloway Commons **(2)**

Friday, May 4

3–4 p.m.

Chemistry Department

Poster Exhibition

Parsons Hall, Iddles Lobby **(7)**

Wednesday, May 9

12:30–6 p.m.

Whittemore School of Business and

Economics University-wide

Paul J. Holloway Prize

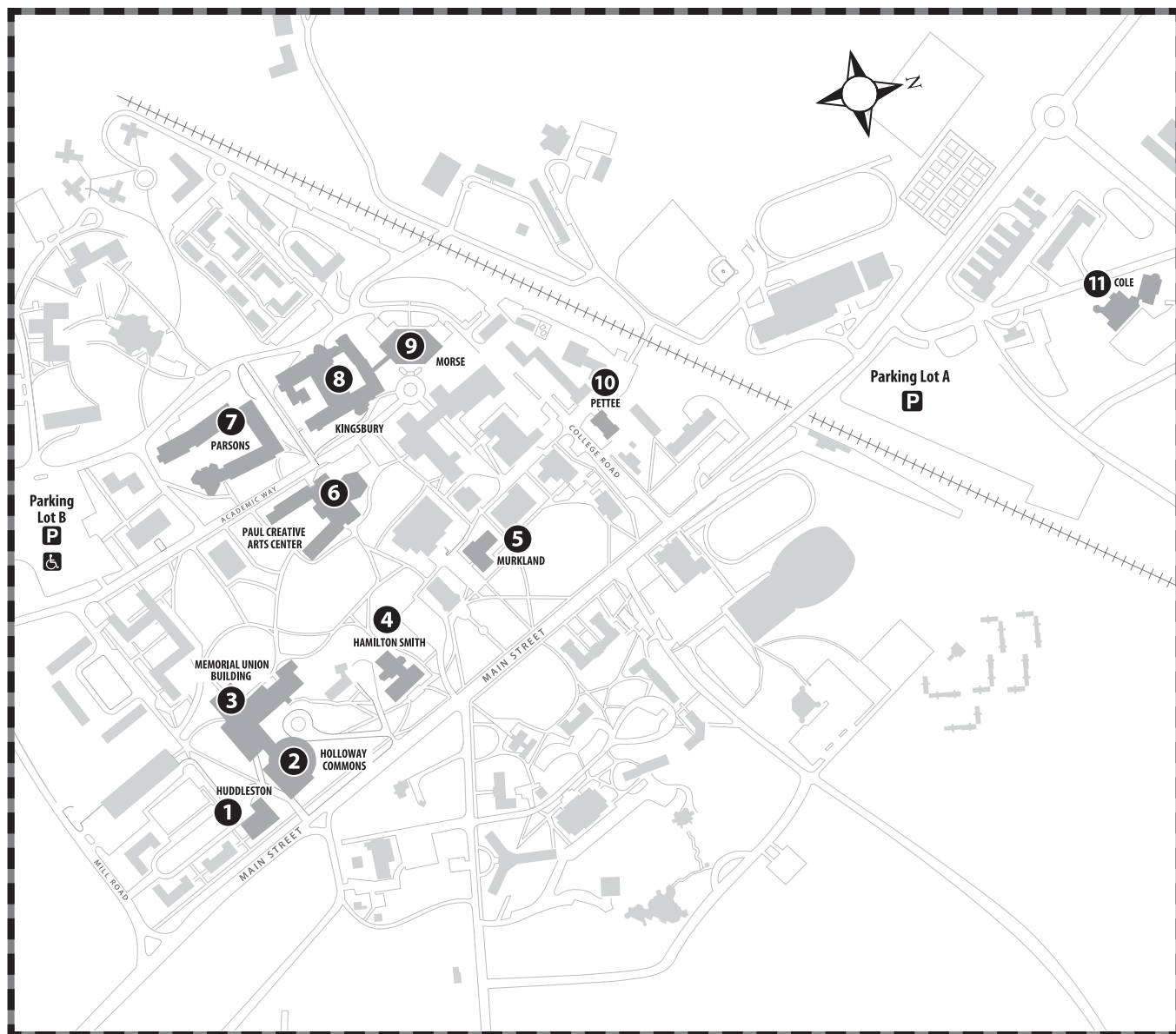
Innovation-to-Market

Championship Round

Holloway Commons **(2)**

Squamscott Room

Campus Map



BUILDING KEY

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

UNH Manchester
400 Commercial Street
Manchester, N.H.

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

2012 Senior B.A., B.F.A., & M.F.A. Exhibition and Preview Reception

**Friday, April 13
6–8 p.m.**

**Paul Creative Arts Center
Museum of Art**

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:*

Tara Appleton
Fine Arts, painting
Adviser: Grant Drumheller

Kathryn Archambault
Fine Arts, painting
Adviser: Ben Cariens

Monica Bancroft
Fine Arts, painting & drawing
Adviser: Scott Schnepf

Margo Belisle
Fine Arts, sculpture
Adviser: Ben Cariens

Katherine Blanchette
Fine Arts, printmaking & drawing
Adviser: Jennifer Moses

Annie Grace Couvillion
Fine Arts, photography
Adviser: Ben Cariens

Taylor Maroney
Fine Arts, painting and drawing
Adviser: Grant Drumheller

Sarah Nelson
Fine Arts, painting and drawing
Adviser: Ben Cariens

*Master of Fine Arts in painting
degree candidates:*

Clara Coleman
Lennie Mullaney
Jesse James Thomas
Liz Wilson
Advisers: Brian Chu, Grant Drumheller

*Bachelor of Art degree candidates
from UNH Art and Art History
Department, whose work will also
be on view:*

Leah Akey
Studio Arts, painting
Adviser: Craig Hood

Tyler Beaudoin
Studio Arts, woodworking
Adviser: Leah Woods

Amy Bergeron
Studio Arts, photography
Adviser: Julee Holcombe

Erica Cole
Studio Arts, photography
Adviser: Julee Holcombe

Korrena Cowing
Studio Arts, painting
Adviser: Jennifer Moses

Carly DeLeeuw
Studio Arts, photography
Adviser: Scott Schnepf

Samantha Freese
Studio Arts, photography
Adviser: Michael McConnell

Samantha McCarthy
Studio Arts, ceramics
Adviser: Scott Schnepf

Kathryn Michalovic
Studio Arts, photography
Adviser: Leah Woods

Jacqueline Murphy
Studio Arts, painting
Adviser: Brian Chu

Brynn Potter
Studio Arts, painting
Adviser: Jennifer Moses

Carleen Rickarby
Studio Arts, photography
Adviser: Michael McConnell

Alexia Valhouli
Studio Arts, ceramics
Adviser: Brian Chu

Graduate Research Conference (GRC)

Poster Presentations

**Monday, April 16
5–7 p.m.**
Huddleston Hall 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 17
9 a.m.–3 p.m.**
Memorial Union Building

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.

McNair Scholars Program 20th Anniversary Research Symposium

The McNair Scholars Program will celebrate its history and legacy by hosting the 20th Anniversary Research Symposium, which will be held in conjunction with the annual UNH Undergraduate Research Conference (URC). This symposium brings together undergraduate students from a range of disciplines to promote undergraduate scholarly work. The McNair program is dedicated to increasing the number of individuals from underrepresented groups (low-income, first-generation, and/or racial minority) who are interested in pursuing and obtaining doctoral degrees and careers in academia. This Anniversary Symposium provides a forum for commemorating success in undergraduate research.

Poster Presentations

Friday, April 20
6:30–7:30 p.m.
Memorial Union Building
Room 338/340

Elizabeth Adejuyigbe
Health Management and Policy
Do Neighborhood Characteristics Influence the Existence of Asthma in Children?
Adviser: Robert McGrath

Rohina Asifi (California State University East Bay)
Biochemistry, Molecular and Cellular Biology and Business Administration
Structural Studies on RNA-peptide Interactions in the Replication Mechanism of Brome Mosaic Virus
Adviser: Chul kim

Tracy Grimes (University of Cleveland)
Sociology
Pilot Study: The Investigation and Prosecution of Stalking Cases in the City of Cleveland
Adviser: Vallipuram Sarveswaran

Tariana Little (University of Massachusetts Boston)
Psychology
Uno le Transmite Todo a los Hijos: Latino Parents' Views of Their Roles as Sex Educators of Their Children
Adviser: Maria Torres

Amy Ma
Occupational Therapy
An Investigation of Occupation-based Practice in Upper Extremity Intervention
Advisers: Barbara White, Elizabeth Stewart

Owen Oboite (University of Massachusetts Boston)
Biochemistry, Molecular and Cellular Biology
*The Metabolic Fate of 1,2-Dehydro-N-acetyldopamine in Cuticular Sclerotization of *Sarcophaga bullata* Pupa*
Adviser: Manickam Sugumaran

Oral Presentations

Saturday, April 21
9:30 a.m.–4:30 p.m.
Memorial Union Building
(assigned rooms)

Megan Corbiere
Earth Sciences Oceanography
Nutrient Variability Reconstruction in the Bay of Bengal Over the Last 20,000 Years
Adviser: Rosemarie Came

Trinh Dinh (University of Massachusetts Boston)
Chemistry
Convertible Fluorous Linker-assisted Synthesis of Tetrasubstituted Furans
Adviser: Wei Zhang

Wendolyn Florentino (University of Massachusetts Boston)
Psychology
Retention of Male Reproductive Behavior in Hybrid B6D2F1 Female Mice Independent of Ovarian Hormones
Adviser: Jin Ho Park

Lyse Lucien (University of Massachusetts Boston)
Psychology and History
Relationship Between Ethnicity, Gender, Self Esteem, and Problem Behaviors in Preadolescent Youth
Adviser: Rebecca Hencke

Fariyda Mulrain (University of Massachusetts Boston)
Undeclared
The Importance of Spirituality of Patients in Palliative Care
Adviser: Millicent Reggins

Conquista Roscoe (University of Massachusetts Boston)
Exercise Science
Placenta Dysfunction
Adviser: Laura Hayman

Eric Sales
International Affairs and Political Science
The Effect of Regional Climate on Differences in Public Opinion of Climate Change
Adviser: Lawrence Hamilton

Chaquanzha Stephenson
Political Science and Justice Studies
How Does Sentencing Policy or Law Affect Persons of Different Race, Ethnicity, and Gender?
Adviser: Charles Putnam

UNH Office of Community Service Partnerships

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

Robert Wilson
Undeclared
Photovoice Manchester
Adviser: Semra Aytur

Thompson School Community Leadership Program

Capstone Portfolios, Nonprofit Research, and Civil Technology Mapping Project

Monday, April 23
10:30 a.m.–Noon
Memorial Union Building

The Community Leadership Program is an innovative associate degree and diploma program that prepares students of all ages to work effectively within community organizations and to be active, influential citizens. This exhibition displays students' leadership portfolios and highlights significant community projects and partnerships.

MUB, Rooms 330/332

Capstone Projects

Moderators: Tim Barretto

Timothy Breen

Community Leadership
UNH Relay for Life
Adviser: Timothy Barretto

AnneMarie Graffeo

Community Leadership
Strike Out Breast Cancer
Adviser: Timothy Barretto

Blair Heinrich

Community Leadership
Fundraising for the Working Dog Foundation: Serving Police Dogs in Our Community
Adviser: Timothy Barretto

Nolan Lauze

Community Leadership
PASS Program Students from the Manchester School of Technology, Warmth from the Millyard Research Project Event
Advisers: Timothy Barretto, Kate Hanson

Matthew Mara

Community Leadership
Manchester Police Athletic League Comedy Show
Adviser: Timothy Barretto

Lori Parent

Community Leadership
Civil Air Patrol: Leadership and Beyond
Adviser: Timothy Barretto

Andrew Schafer

Community Leadership
With Open Minds
Adviser: Timothy Barretto

Christian Stone

Community Leadership
The Movement, Overcoming Physical Limitations
Adviser: Timothy Barretto

MUB, Room 334/336

Nonprofit Research

Moderators: Kate Hanson

Caitlyn Ayres

Community Leadership
Nonprofit Research: Monadnock AIDS Services
Adviser: Kate Hanson

Leah Burke

Community Leadership
Nonprofit Research: Tamworth Community Nurse Association
Adviser: Kate Hanson

Evan Cohen

Family Studies
Nonprofit Research: The Somersworth Youth Safe Haven
Adviser: Kate Hanson

Chandler Culveyhouse

Community Leadership
Nonprofit Research Upreach
Adviser: Kate Hanson

Melanie Drogseth

Community Leadership
Nonprofit Research: Strong Women Strong Girls
Adviser: Kate Hanson

Kelly Fox

Family Studies
Nonprofit Research: Special Olympics (The New Hampshire Chapter)
Adviser: Kate Hanson

Fiona Gettinger

Environmental Conservation Studies
Nonprofit Research: Cochecho Valley Humane Society
Adviser: Kate Hanson

Anna Hall

Family Studies
Nonprofit Research: Early Learning NH
Adviser: Kate Hanson

Kelsey Hammond

Community Leadership
Nonprofit Research: G.A.L.A. Community
Adviser: Kate Hanson

Maggi Hanson

Community Leadership
Nonprofit Research
Adviser: Kate Hanson

Courtney Hinds

Family Studies
Nonprofit Research: Camp Sunshine
Adviser: Kate Hanson

Jeffrey Lutz

Community Leadership
Nonprofit Research
Adviser: Kate Hanson

Erin McKane

Community Leadership
Nonprofit Research: Therapet Foundation
Adviser: Kate Hanson

Gabrielle Moen

Community Leadership
Sexual Assault Support Services
Adviser: Kate Hanson

Stephanie M. Morris

Nursing

Nonprofit Research: Families in Transition

Adviser: Kate Hanson

Jacqueline Mundry

Community Leadership

Nonprofit Research: On Belay

Adviser: Kate Hanson

Nicholas PelrineCommunity Leadership, Sport Studies,
and Communication*Nonprofit Research: Oyster River Youth
Organization*

Adviser: Kate Hanson

Maura Power

Family Studies

*Nonprofit Research: Big Brothers Big Sisters
of the Greater Seacoast*

Adviser: Kate Hanson

Meagan Prior

Family Studies

Nonprofit Research: Families First

Adviser: Kate Hanson

Meg Raccine

Family Studies

*Nonprofit Research: The Girl Scouts of
the Green and White Mountains*

Adviser: Kate Hanson

Heather Rusaw

Nutrition and Ecogastronomy Dual Major

Nonprofit Research: NOFA-NH

Adviser: Kate Hanson

Margaret Saliba

Community Leadership

Nonprofit Research: Invisible Children, Inc.

Adviser: Kate Hanson

Olivia Smith

Communication Sciences and Disorders

*Nonprofit Research: Cedarcrest Center for
Children with Disabilities*

Adviser: Kate Hanson

Benjamin Trolio

Environmental Conservation Studies

Nonprofit Organization: 350.org

Adviser: Kate Hanson

Danielle ZamarchiSustainable Agriculture and Food Systems
and Ecogastronomy Dual Major*Nonprofit Research: Seacoast Local*

Adviser: Kate Hanson

MUB, Rooms 334/336***The Warmth from the Millyard
Mapping Project***

Moderator and Adviser:

Anthony Vannozzi**Christopher Connolly**

Andrew MacLaren

Hunter Picard

Matthew Sullivan

Civil Technology

*Warmth from The Millyard: Interactive
Resource Mapping Using ArcGIS Online*

**UNH Manchester
Undergraduate Research
Conference**

Oral Presentations**Tuesday, April 24****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.

Brandon Boutin

History and English

Terrorism in the Algerian War

Adviser: John Resch

Nancy Fernandes

Biology

*Sequencing Mitochondrial DNA: A Circle
Approach*

Adviser: Sarah Kenick

Ryan Haggerty

History

*The Corrupt Bargain: The Election of 1824
and Aftermath*

Adviser: John Resch

Kevin Mason

Politics and Society and

Communication Arts

*The International Criminal Court and
Consolidation of the Responsibility to
Protect as an International Norm*

Adviser: Michael Contarino

**Whittemore School of
Business and Economics
Undergraduate Research
Conference**

Oral Presentations**Wednesday, April 25****10 a.m.–1:30 p.m.****Memorial Union 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.

MUB, Room 334/336**10–11:30 a.m.****Atkins Investment Group**

Moderators and Advisers:

Stephen Ciccone, Ahmad Etabari**Paul Atkinson**

Economics

Tyler Walsh

Accounting

Portfolio Strategy

Nicholas Castaldi

Finance

Christopher Doyle

Economics and Business Administration

Brian Lowell

Accounting

*Healthcare***Daniel Cray**

Accounting

Matthew DiGirolamo**Lucas Winthrop**

Finance

*Technology***Alexander D'Eletto**

Accounting

Gustav Nilsson**Christopher Smith**

Finance

*Industrials***Kurt Eddins**

Economics

Miles Ela**Owen Pratte**

Finance

*Telecommunications***Eric Harwood****Ryan Shelley**

Finance

Colin Kelley

International Affairs and Business Administration

*Officers of Atkins Investment Group***Gwynneth Heaps**

International Affairs and Finance

Matthew McCormick

Finance

Raven Widger

International Business and Economics

*Consumer Staples***Victoria Hexeberg**

Business Administration

Benjamin Schenck**Evan Walsh**

Finance

*Consumer Discretionary***Richard Labore****Glenn Law**

Finance

Brian Morin

Economics

*Energy***William McCarran**

Business Administration

Ryan Shelley**Thao Truong**

Finance

*Basic Materials***Danielle McVicar**

Marketing

David Mofford

Finance

Aaron Sullivan

Economics

*Financials***Brendan Slein**

Accounting

Joseph Stanek**Caitlin Tappan**

Finance

James Taylor

International Business and Economics

Utilities

MUB, Room 330/332**Marketing Workshops****10–11:30 a.m.**

Moderator: William Machanic

Adviser: Peter Masucci

Kelly Donahue**James Frackleton****Andre Garron****Damon Kipp****Natalie Kitchen****Jessica Paterson****Thomas Ray****Laura Tentas****Hannah Ward**

Marketing

*Development and Implementation of a**Marketing Campaign for Pokos, Inc.***Joseph Daloisio****Caitlan Elliott****Stephanie Farnham****Alexander Foss****Michael Nocella****Petra Ross-Raymond****Ryan Torres****Julie Walsh****Cory Woodward**

Marketing

*Development and Implementation of an Integrated Marketing Plan for Regaalo, Inc.***Maria Albers****Daniele Alves****Kristen Betro****Andrew Bogosian****Jonathan Dunham****William Green****Henri Hendricks****Noel Lindgren****Alexandra Peterson****Joshua Tilton**

Marketing

Robert Wise

Marketing and Business Administration

*Development and Implementation of a Marketing Campaign for Net Impact***Alexa Dufault****Steven Giangliulio****Taylor Hodges****Ryan Martinez****Shannon Mellen****Gordon O'Hearne****Jonathan Taylor****Sierra Thresher****Edward Young**

Marketing

*Development and Implementation of an Integrated Marketing Plan for The Tre Ponti Center for Performing Arts***Samuel Alexanian****Jason Deutsch****Katelyn Gale****Seohyun Hwang****Jonathan Jagelsky****Jennifer Phillips****Anthony Saia****Vance Turner**

Marketing

Development and Implementation of a Marketing Campaign for Rasamaya Movement Centers, Inc.

Noon–1:30 p.m.

Moderator: Catherine Blake
Adviser: Peter Masucci

Caitlin Cleary
Megan Daly
Patrick Grasso
Gregory Harris
Shauna Laskowski
Tracy Naylor
Stephanie Perkins
Benjamin Roberge
Kaitlyn Scofield
Elizabeth Tom
Marketing
Development and Implementation of an Integrated Marketing Plan for Climate Counts

Caitlin Agnelli
Kirstin Bibbiani
Lindsey Coleman
Tim Cox
Alexander Gerlitz
Ashley Kaplan
Peter Neal
Alicia Papandrea
Lauren Ringland
Maura Robinson
Yang Zhi Shen
Marketing
Development and Implementation of a Marketing Campaign for the Robert Noyce Scholarship Program

Brandon Blackall
Marketing and Finance
Kimberly Greenwood
David LeBlanc
Kathleen Mommsen
Jonathan Parker
Marketing
Design, Development, and Implementation of an Integrated Marketing Campaign for Target, Corp.—Research Team

Hannah Cametti
Katlyn Coyne
Daniel Gejay
Taylor Scully
Zachary Smith
Zachary Tyler
Marketing
Design, Development, and Implementation of an Integrated Marketing Campaign for Target, Corp.—Advertising and PR Team

Ashley Canning
Jilliane Friel
Scott Haskell
Peter Kutz
Sarah Lapitino
Andrew Morse
Marketing
Design, Development, and Implementation of an Integrated Marketing Campaign for Target, Corp.—Campaign Implementation Team

Michelle Boisvert
Ilana Cohen
Brooke Duchaney
Dustin Feldman
Jillian Granucci
Megan Horowitch
Danielle McVicar
Lindsey Minton
Mark Partridge
Kyle Suva
Marketing
Development and Implementation of an Integrated Marketing Plan for Our House For Girls

Brandon Amico
Taylor Barnes
Lauren Fopiano
Michael Germaske
Matthew M. McLaughlin
Steven Mountzouris
Erin Shea
Kaycee Smith
Max Stewart
Jamie Sullivan
Marketing
Development and Implementation of a Marketing Campaign for the Town of Wells, Maine

**MUB, Room 334/336
Noon–1:30 p.m.****Marketing Research**

Moderator: Audrey Ashton-Savage
Adviser: Peter Masucci

Ethan Ash
Patrick Barnard
Bailey Comyns
Kristen Kouloheras
Peter Kutz
Steven Mountzouris
Marketing
Measuring the Effects of Forced Triples in UNH Housing on Student Performance and College Experience

Ashley Canning
Shauna Laskowski
David LeBlanc
Peter Neal
Alicia Papandrea
Mark Partridge
Marketing
Assessing the Impact of Overcrowding in UNH Campus Recreation Facilities

Katlyn Coyne
Jilliane Friel
Carrie Jensen
Matthew M. McLaughlin
Sean Reagan
Benjamin Roberge
Maura Robinson
Marketing
Measuring the Demand for Expanded Online Course Offerings at UNH

Mikayla Cadoret
Paige Goloubef
Kathleen Mommsen
Michael Nocella
Zachary Smith
Jamie Sullivan
Marketing
Robert Wise
Marketing and Business Administration
A Study and Assessment of the UNH Academic Advising System

Kirstin Bibbiani
Sarah Lapitino
Jason Metzenroth
Kaitlyn Scofield
Taylor Scully
Yang Zhi Shen
Marketing

*Assessing the Effectiveness of UNH
Advising and Career Placement Services*

MUB, Room 334/336

Multidisciplinary Oral Presentations

Moderator: Fiona Wilson

Kimberly Greenwood
Marketing
*Higher Education Marketing to the
Hispanic Student Population*
Adviser: Audrey Ashton-Savage

Kevin Lapoint
Business Administration and
Management and Finance
*Micobrewing in the US: An Overview of
the Microbrewery Industry and a Business
Plan for Future Success*
Adviser: Fiona Wilson

Whittemore School of Business and Economics Undergraduate Research Conference

Poster Presentations

Wednesday, April 25
10 a.m.–1:30 p.m.
Memorial Union Building
Granite State Room

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

MUB, Granite State Room 10–11:30 a.m.

Accounting and Finance

Moderator: Wenjuan Xie
Adviser: Catherine Plante

Christopher Bosco
Business Administration and Accounting
The Bankruptcy of General Motors

Brad Coletta
Accounting
*Lean Accounting: A New Approach to
Cost Accounting*

William Fritzky
Accounting
Patent Law: Then and Now

MUB, Granite State Room 10–11:30 a.m.

EcoGastronomy

Moderator: Daniel Winans

Garrett Bauer III
Community and Environmental Planning
and Ecogastronomy Dual Major
*Expanding Markets for Sustainable
Farm Products in New Hampshire: An
Assessment of Impact and Suitability
of the Lake Sunapee Area*
Adviser: Daniel Winans

Emelie Buell
Nutrition and Ecogastronomy
*Exploring UNH Dining Food: Ingredients,
Health, and Value*
Adviser: Daniel Winans

Sarah Jacobson
Nutrition and Ecogastronomy
*Ecogastronomy Capstone: SNAP/EBT at
the Seacoast Eat Local Winter Farmers'
Market.*
Advisers: Joanne Burke, Daniel Winans

Heather Rusaw
Nutrition and Ecogastronomy Dual Major
*Moving Towards Sustainable Self-
sufficiency: A Beginner's Guide to Backyard
Farming for the Modern Homesteading
Family*
Adviser: Daniel Winans

Meagan Visnaskas
Philosophy and Ecogastronomy Dual
Major
*International EcoVillages and The
Underlying Philosophy*
Adviser: Daniel Winans

MUB, Granite State Room 10–11:30 a.m.

Macroeconomies from Around the World

Moderator and Adviser: James Wible

Molly Bulger
Anthropology
A Macroeconomic Survey of Norway

Joshua Chamberlain
Political Science
A Macroeconomic Survey of Russia

Logan Chase
Business Administration
A Macroeconomic Survey of Canada

Marcus Chase
Accounting and Finance
A Macroeconomic Survey of Ireland

Connor Clerkin
Economics
A Macroeconomic Survey of Ecuador

Kathleen Gillespie
Business Administration
A Macroeconomic Survey of Australia

Marley Harunk
Undeclared
A Macroeconomic Survey of Greece

Alexander LeGore
Management
A Macroeconomic Survey of Brazil

Kevin McAleese
International Affairs and Political Science
A Macroeconomic Survey of Uruguay

Michael McCulloch
Biomedical Science
A Macroeconomic Survey of Japan

Tuan Nguyen

Economics

*A Macroeconomic Survey of Vietnam***Katie Pappas**

Business Administration

*A Macroeconomic Survey of Saudi Arabia***Sara Santos**Sustainable Agriculture and Food Systems
and Ecogastronomy*A Macroeconomic Survey of China***Lauren Saucier**English/Journalism, International
Affairs and German*A Macroeconomic Survey of Germany***Ian Tanafon**

Political Science

*A Macroeconomic Survey of Portugal***Alyssa Washakowski**

Business Administration

*A Macroeconomic Survey of Spain***Johnson Whippie**

Physics and Kinesiology

*A Macroeconomic Survey of Sweden***MUB, Granite State Room****10–11:30 a.m.****Management****Michael Borisenok**Entrepreneurial Venture Creation
and Information Systems Management**Margaret Cobb**

Finance and Management

Matthew Evans

Management

James McWilliamsInformation Systems Management
and Management*Seacoast NH Property Management*

Adviser: William Hassey

Megan GrahamInformation Systems Management
and Management*White Collar Crime and the United States'*
Economy

Adviser: Thomas Hand

MUB, Granite State Room**10–11:30 a.m.****Marketing****Hannah Cametti**

Marketing

Marketing Through Sports

Adviser: William Machanic

Bridget Croasdale

Business Administration

Emily Gatsas

Marketing

Marlee O'Neil

Entrepreneurial Venture Creation

Burt's Bees' Bee Clean Marketing Plan

Adviser: Lin Guo

Alicia Papandrea

Marketing

*Market Analysis of the UNH Late Night**Snacking Scene*

Advisers: M. Billur Akdeniz, Bruce

Pfeiffer

Anna Powers

Marketing

Sean Stewart

Marketing

*Market Research Study of Potential**New WSBE Class*

Adviser: Audrey Ashton-Savage

MUB, Granite State Room**Noon–1:30 a.m.****Economics of Sports**

Moderator and Adviser: James Wible

Samuel Alpert

Economics

*An Economic Analysis of the Dallas**Mavericks Roster***Birkley Argue**

Finance and Economics

*An Economic Analysis of the Boston**TD Garden***Ethan Ash**

Marketing

An Economic Analysis of Fantasy Football
*on Revenue for the NFL***Nicholas Babson**International Business and Economics
and Management*An Economic Analysis of Boston Redsox,*
*25 Man Roster***Lisa Castelli**

Accounting and Economics

An Economic Analysis of the Boston
*Celtics Roster***Michael Curtin**Integrated Applied Mathematics
and Justice Studies*An Economic Analysis of College Football:*
*Market for Money?***Joseph Daloisio**

Marketing

*Economics of Sports***Hali Dengen**

International Business and Economics

An Economic Analysis of Olympic
*Stadiums***Hans Fischer**Economics and Information Systems
Management*An Economic Analysis of the Relocation*
*of the Oklahoma City Thunder***Corey Flewelling**

Management

An Economic Analysis of the Patriots
*Football Roster***Scot Hein**

Economics

An Economic Analysis of Super Bowl
*Advertising***Kristine Horn**

Political Science

An Economic Analysis of the Detroit Red
*Wings Roster***Robert Johnson**

Mathematics & Statistics and Economics

An Economic Analysis of Improving NHL
*Entry Draft Metrics***William Kluber**

Economics

An Economic Analysis of the Efficiency
of the New York Jets Roster

Dianna Kurowycky

Economics

An Economic Analysis of UNH Athletics

Andrew Martin

Mathematics & Statistics and Economics

An Economic Analysis of the Market for a National Hockey League Franchise in Relocation

Matthew T. McLaughlin

Economics

An Economic Analysis of the Oklahoma City Thunder Roster

Shane Morin

Communication

An Economic Analysis of the Relocation of NHL's Atlanta Thrashers to Winnipeg

Sishemo Mwesigwa

Economics

An Economic Analysis of the Building of an NBA Roster: The Miami Heat

Andrew O'Connor

Finance

An Economic Analysis of Gillette Stadium

Bria Oneglia

Economics

An Economic Analysis of Labor Markets in Professional Athletics

Benjamin Phelps

Economics

An Economic Analysis of the Olympics: Cost or Benefit?

Stephen Potts

Economics

An Economic Analysis of the Green Bay Packers: A Public Approach

Eric Poulin

Economics

An Economic Analysis of Fenway Park

Fraser Tibbetts

Finance and Economics

An Economic Analysis of Lucas Oil Stadium

Zakes Warner

Economics

An Economic Analysis of Cowboy Stadium

Daniel Weidman

Economics

An Economic Analysis of Reliant Stadium

Sean Woods

Business Administration

An Economic Analysis of the Boston Bruins' Roster

Whittemore School of Business and Economics Paul J. Holloway Innovation-to-Market Prize Competition

Charles & Miriam Nelson Poster Competition

**Wednesday, April 25
Noon–2pm
Memorial Union Building
Granite State Room**

Established with a gift from Charles and Miriam Nelson, this poster competition gives students an opportunity to showcase their research into entrepreneurship. Students present a poster and a three-minute oral presentation to a team of judges comprised of representatives from business and industry. Judges have up to three minutes to ask follow-up questions.

**Moderators: Michael Merenda,
Devkamal Dutta**

Joshua Allen

Nicholas Beltramini

Management

Troy Delaney

Management and Finance

Lighten the Load Storage, LLC

Adviser: William Hassey

Amelia Berube

Business Administration

Mackenzie Fraser

Kinesiology and Management

Daniel Hernon

Management and Justice Studies

Matthew M. McLaughlin

Marketing

Refrigeround

Adviser: William Hassey

Brandon Blackall

Marketing and Finance

Joshua Corriveau

Business Administration

Sayiram Sellappah

Information Systems Management

Christopher Siegel

Finance and Management

Tutor Finder

Adviser: Mary Gale

Michelle Boisvert

Jonathan Parker

Marketing

PolarPOD

Adviser: Peter Masucci

Michael Borisenok

Entrepreneurial Venture Creation and

Information Systems Management

Greater Than Sports

Adviser: Kholekile Gwebu

Adam Brickett (graduate student)

Carleton Simpson

Electrical & Computer Engineering

CATshare

Advisers: Michael Carter, Peter Masucci

Alan Buzbee

John Groff

Victoria Martin

Management

Courtney Ruffen

Art Studio and Ecogastronomy

Bus Hunter

Adviser: William Hassey

Christopher Chandler (*graduate student*)

Ryan Martin (*graduate student*)

MoSho

Adviser: Charles Martin

William Clement

Entrepreneurial Venture Creation
and Management

Dustin Feldman

Marketing

Jeffery Holland

Accounting and Management

SOsponsored

Adviser: William Hassey

William Clement

Jaimie Lemieux

William Sullivan

Entrepreneurial Venture Creation
and Management

Christopher Doleac

Management

XRCise

Advisers: Mark Galvin, Marc Sedam

Joseph Daloisio

Marketing

Nathan Laperle

Management and Marketing

Taylre O'Byrne

Business Administration

The Arctic Box

Adviser: William Hassey

Charles Denault

Biology

John Dodds

Management

Andra Erglis

Accounting

Zip-Through Systems

Adviser: Mary Gale

Joline Dubuc

Business Administration and
Entrepreneurial Venture Creation
and Management

Stephan Halvatzes

Business Administration and
Finance and Management

Aaron Van de Car

Business Administration and
Management

Style Assist

Adviser: William Hassey

Alexander Guilbeault

Marketing

Brandon Somogie

Julia Spencer

Management

Marcheilla Surusa

Finance and Management

LocalGrub

Adviser: Mary Gale

Andrew Jaccoma (*graduate student*)

Olha Johnson (*graduate student*)

Sensible Spreader Technologies

Adviser: Robert Gough

Daniel LaBrecque

Kyle Reilly

Management

Lillian Seymour

Business Administration

Business Match

Adviser: Audrey Ashton-Savage

Michael Lapanne

Management

Jesse Mills

Finance and Management

Cameron Quimby

Finance

Commonjobapp.com

Adviser: Mary Gale

William Leith

Entrepreneurial Venture Creation

Leith's Karate School

Adviser: William Hassey

Noel Lindgren

Vance Turner

Marketing

NV Landscaping

Adviser: Mary Gale

Michael Lund

Andrew Zamansky

Finance and Management

Michael Nocella

Laura Tentas

Marketing

EZ-Lock Repelling Garbage Can

Adviser: Mary Gale

Daniel Mannarino

Computer Science

Emily Spognardi

Environmental Conservation Studies

Joseph Van Gombos

Political Science

Robert Wise

Marketing and Business Administration

Trash 2 Treasure

Adviser: Michael Swack

Michael Veilleux (*graduate student*)

Gear Freedom

Adviser: Juan Florin

Shaojun Yao (*graduate student*)

Anti-Fatigue Ointment Stick for Drivers

(Formerly Known as WAKUP)

Advisers: Marc Sedam, W. Rudolf Seitz

The Naked Arts— Creativity Exposed

Act I

Wednesday, April 25
Noon–2 p.m.
Paul Creative Arts Center
Museum of Art

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.

Tara Appleton
Fine Arts
A Development of Still Lifes
Adviser: Julee Holcombe

Taylor Maroney
Art Studio
The Structure of Life: Figure and Environment
Advisers: Julee Holcombe, Leah Woods

Sarah Nelson
Fine Arts
Painting the Internal Landscape
Adviser: Julee Holcombe

Interdisciplinary Science & Engineering Symposium (ISE)

Poster Presentations

Wednesday, April 25
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.

Sinor Ali
Neil Hansen
Civil Engineering

Peter Calhoun
International Affairs and Civil Engineering
Mill Pond Dam Removal Assessment and River Restoration in Durham, NH
Adviser: Thomas Ballesterio

Anabelle Allen
Nicholas Balzano
Alexander Buessing
Jesse Fand
Ross Robertson
Civil Engineering
University of New Hampshire Steel Bridge 2012
Adviser: Charles Goodspeed

Jacqueline Amante
Environmental Sciences
Quantifying Methane Ebullitive Flux from Subarctic Ecosystems
Adviser: Ruth Varner

Christopher Anderson
Ryan Coffey
Charles Gurney
Civil Engineering
Albacore Stabilization
Advisers: Jean Benoit, Ricardo Medina

Benjamin Anibal
Laura Baldinger
Dustin Metayer
Mechanical Engineering
Cohesive Incipient Motion
Adviser: Diane Foster

Seshank Appasani
Christopher Chirgwin
Paul Rioux
Electrical & Computer Engineering
The Measurement and Analysis of Ion Flow Between the Human Body and Local Ground
Advisers: Kent Chamberlin, Wayne Smith

Varouna Appiah
Rebecca Rubinstein
Environmental Engineering
Data Acquisition and Response Tool
Adviser: Nancy Kinner

Rohina Asifi
Biochemistry, Molecular and Cellular Biology and Business Administration
Structural Studies on RNA-peptide Interactions in the Replication Mechanism of Brome Mosaic Virus
Adviser: Chul Kim

Nicholas Aubut
Joshua Chabot
William Holmes
Abigail Jenkins
Michael Johnson
Timothy Roemer
Mechanical Engineering
NASA Magnetospheric Multi-scale Mission TableSatellite 1B
Adviser: May-Win Thein

Megan Barry

Anthropology

Ian Chase

Environmental Sciences

Clay Cowart

Environmental and Resource Economics

Meghan Craig

Philosophy

Tyler Dami

Computer Science

Tim Doucette

International Affairs and French

Stephen Prescott

Geography

Susan Torman

Environmental Conservation Studies

A More Sustainable UNH

Adviser: Cameron Wake

Kurtis Bartlett

Physics

*An Infrared Laser Testing Facility for the**Characterization of the CLAS12 Silicon**Detectors*

Advisers: Maurik Holtrop, Sarah Phillips

Vincenzo Bartucca

Civil Engineering

Daniel Berry

Ellen LaMonica

Mechanical Engineering

Ryan Henley

Environmental Engineering

*Memorial Bridge Hydrokinetic Power**Generation*

Advisers: Kenneth Baldwin, Erin Bell

Andrea Bedell

Physics

*Analysis of Scintillator Characteristics to**Improve Portable Neutron Spectroscopy**(NSPECT)*

Adviser: James Ryan

Eric Beiswenger

Elizabeth Campbell

Jacob Chamberlain

Andrew Kennedy

Caleigh MacPherson

Anthony Morin

Jaron Peters

Camille Poulin

Tadd Smith

Mechanical Engineering

Patrick Merrill

Jonathan Wilson

Computer Science

*UNH Lunabot for the NASA Lunabotics**Mining Competition*

Adviser: May-Win Thein

Jason Berube

Justin Bosiak

Matthew Garabedian

Jeffrey Hebert

Lauren Heimann

Geoffrey Howe

Mechanical Engineering

AIAA—Remote Controlled Airplane

Adviser: Christopher White

Lily Beyer

Erik Carlson

Lorilee Mather

Robert Nickerson

Eric Ohanian

Civil Engineering

*Lyndeborough Road Bridge Replacement**Project*

Adviser: Raymond Cook

Brendan Bickford

Mechanical Engineering

*Positron Identification by Coincident**Annihilation Photons (PICAP) System*

Advisers: James Connell, May-Win Thein

Alexander Black

Jacob Dore

Joseph Gabriel

Vojtech Kubec

Timothy Maloney

Patrick McCleary

Mechanical Engineering

Formula Race Car—FSAE

Adviser: Todd Gross

Christopher Blais

Logan Mower

Jenny Nichols

Brian Zukas

Chemical Engineering

Robert Carroll (*graduate student*)*Microcapsule and Droplet Dynamics**in Channels*

Adviser: Nivedita Gupta

Matthew Bogle

Neal Drake

Alexander Klink

Brian Paula

Civil Engineering

Maxwell Murray

Electrical & Computer Engineering

Oyster River Dam Restoration

Adviser: David Gress

Scott Bonneau

Kyle Devenish

Katherine Fletcher

Jonathan MacBride

Civil Engineering

Nottingham School Athletic Fields

Adviser: Jo Daniel

Richard Bonnin

Scott Byrne

Andrew Sartorelli

Adam Stankard

Mechanical Engineering

Data Center Thermal Management

Adviser: Todd Gross

Alexandra Bowen

Christen Breda

Megan Good

Patrick Ready

Environmental Engineering

PCB's: Scrapyard Remediation

Adviser: Kevin Gardner

Alexandra Bowen

Megan Good

Environmental Engineering

*The Effective Removals of Pharmaceuticals**by Direct/Advanced UV Photolysis*

Advisers: James Malley

Nathaniel Bradley

Robert Chase

Benjamin Sawyer

Civil Engineering

Inundation Analysis of Asphalt Concrete

Adviser: Jo Daniel

Kelsey Packard

Chemistry

Austin Gregoire

Undeclared

Elizabeth Brady (*graduate student*)*Monitoring Iso- α -acids to Evaluate Whirlpool Efficiency of Hopped Wort by HPLC*

Adviser: Sterling Tomellini

Adam Brammer**Andrew Grant****Erich O'Dowd**

Mechanical Engineering

Fire Fighting Robot

Adviser: Barry Fussell

Christopher Bridges**Gary Porres**

Electrical & Computer Engineering

Angle of Arrival Detection

Adviser: Kent Chamberlin

Jeffrey Brulet

Chemistry

Studies on Thermal and Carbocationic Rearrangements Through Isotopic Labeling

Adviser: Richard Johnson

Shawn Bryan

Computer Science

Joshua Clairmont

Electrical & Computer Engineering

Tangible User Interfaces for Multi-touch Surfaces

Adviser: Andrew Kun

Bradford Cannon

Physics

A Statistical Study of Newborn Interstellar Pickup Ions

Adviser: Charles Smith

Emily Car**Ashley Hale**

Electrical & Computer Engineering

Bicycle for the Visually Impaired

Adviser: John LaCourse

Spencer Carey**Brian McConnell****Brendan Nichols****Seth Tremblay**

Chemical Engineering

Nanofiltration of Algal Oil from Hexane

Adviser: Ihab Farag

Emily Carlson**Ransom Horner-Richardson**

Civil Engineering

Harrison Roakes

Environmental Engineering

Thistleton Robertson IV

Civil Engineering and Environmental Engineering

Alexander Rozycki

Environmental Engineering

Potable Water Treatment System for the Dominican Republic

Adviser: James Malley

Erik Carlson

Civil Engineering

*Estimating Connecticut Stream**Temperatures Using Predictive Models*

Adviser: Jennifer Jacobs

Kevin Carpenter**Bryan Hinson****Derek Long****Amanda Sweetman**

Civil Engineering

Cochecho Site Development

Adviser: Rebekah Gaudreau

Desiree Carron

International Affairs and Civil Engineering

Jared Duval**Matthew Miller****Zachary Zavalianos**

Civil Engineering

*I-93 Exit 14 Superstructure Replacement**Design Project*

Adviser: Erin Bell

Garrett Cassidy**Vincent Lyon****Britta Moore**

Mechanical Engineering

Pedal Powered Washing Machine

Adviser: Brad Kinsey

Samuel Chaney**Daniel Enos**

Mechanical Engineering

Students Without Borders

Adviser: Brad Kinsey

Kyle Charmanski**Dean Dudley****Jeffrey Mattar****Steven Titus**

Mechanical Engineering

Drop Blast

Adviser: Diane Foster

Tyler Chase**Daniel Lapan****Daniel Mooney**

Mechanical Engineering

SigSauer Rifle Simulator

Adviser: Brad Kinsey

John Clark

Earth Sciences Teaching

Effects of pH on Arsenic Mobility in Metasedimentary Bedrock: Insights from Leaching Experiments on Rocks from the Kittery Formation

Adviser: Julia Bryce

Shaun Cmar

Electrical & Computer Engineering

Data Collection for the FSAE Car

Adviser: W.T. Miller

Jesse Coburn

Physics

The Turbulent Cascade and Proton Heating in the Solar Wind During Solar Minimum

Adviser: Charles Smith

Benjamin Comtois**Spencer Roux****Ryan Therrien**

Mechanical Engineering

UNH Hydrofoil Force Balance

Adviser: Martin Wosnik

Timothy Condon**Andrew Gherardi****Jonathan Travers**

Mechanical Engineering

Bridge Underpass Turbine

Adviser: Martin Wosnik

Scott Connatser**Vincent Hoang****Jeffrey Manzik**

Electrical & Computer Engineering

Audio/Visual Effects Board

Adviser: W.T. Miller

Isabel Cormier

Geology

*Possible Sources of Red Merrimack Sands**Using Spectral Remote Sensing*

Adviser: Shachak Pe'eri

Ashlee Cummings**Charlene Nault**

Electrical & Computer Engineering

Heads up Cones

Adviser: Richard Messner

Jonathan Davidson**Christopher Dick****Andrew DiFabio****Nicholas Dusza****Steven Gallerani****David Jonas****Charles Langlois****Justin Rau****Jacob Richards**

Mechanical Engineering

Mini-Baja

Adviser: Robert Jerard

Stefan Deangelis**John Shepherd****Scott Shillieto****Matthew Weber****Aaron Wetherbee**

Civil Engineering

*Douglas Road Bridge Replacement**Northbridge, MA*

Adviser: Raymond Cook

Geoffrey Delisle**Matthew Gilchrest****Liam Kalloch****Michael McDermott**

Civil Engineering

UNH Crew Boathouse

Adviser: Rebekah Gaudreau

Gregory DiSanto

Geography

The Lamprey River: Erosion and Habitat Assessment

Adviser: Anne Lightbody

Jessica Dick

Environmental Sciences

*Agricultural Impacts on Soil and Plant**Litter Mineralogy*

Adviser: Jo Laird

Joel Dietrich**Matthew Lane****Christian Rice****John Russo**

Civil Engineering

Commercial Subdivision

Adviser: Rebekah Gaudreau

Eric Donovan**Jonathan Dwyer****Kenneth Weigel**

Electrical & Computer Engineering

Oar Bend

Adviser: Wayne Smith

Tristan Donovan

Civil Engineering

Foam Index Test

Adviser: David Gress

Tyler Dow**Reem Haddad****Brian Patinskas****Michael Umberger**

Civil Engineering

Windham High School

Adviser: Rebekah Gaudreau

Kimberly Drew

Chemistry

*Tandem Chain Extension Mannich**Reaction: A New Synthetic Route to**b-Proline*

Adviser: Charles Zercher

Kathryn Dube

Chemistry

Computational Studies of Polymer Folding in Various Solvents

Adviser: Erik Berda

Jason Dusseault**Matthew Gloekler****Andrew Jacobs****Benjamin Payeur**

Electrical & Computer Engineering

Communications for UAV Sensor Network

Adviser: Nicholas Kirsch

Samantha Ebner

Mechanical Engineering

Spatial Evolution of a Turbulent Boundary Layer

Adviser: Joseph Klewicki

Scott Fanara**Timothy Lotterhand****Zachary Scanlon**

Civil Engineering

Route 4 and Morgan Way Intersection

Adviser: Rebekah Gaudreau

Justin Fleming

Chemistry

New Derivatives of Polycyclic Tetraamines

Advisers: Gary Weisman, Edward Wong

Evan Flower**Joshua Kushinsky****Evan Plante**

Mechanical Engineering

Sheet Hydroforming Machine

Adviser: Ioannis Korkolis

Daniel Foley

Physics and Materials Science

*Oxidation Resistant Titanium Chromium**Nitride Hard Coatings*

Adviser: James Krzanowski

Marcus Forand

Chemistry

*Folding of Single Chain Polylactide as**Scaffolding for Nanoparticle Assemblage*

Adviser: Erik Berda

Michele Forrestall

Geology

*Aftershock Patterns of Oceanic Intraplate**Strike Slip Earthquakes and Implications**for Anomalous Aftershock Behavior of**Oceanic Transform Fault Earthquakes*

Adviser: Margaret Boettcher

David Gabrault**Zachary Valente****Kyle Wyatt**

Civil Engineering

Ryan Haselton**Anton Pugachevsky**

Computer Science

*Structural Analysis Using Smartphone**Accelerometers*

Adviser: Tat Fu

Jon Gatarz**Mathew Mastrogiacomio****Daniel Patterson****Curt Spencer**

Civil Engineering

Sibley Pond Bridge

Adviser: Erin Bell

Kevin Genestreti

Physics

On The Effect of Heavy Ions of Ionospheric Origin on Magnetopause Reconnection

Advisers: Lynn Kistler, Christoforos Mouikis

Matthew Gibbons

Civil Engineering and Civil Technology

Jacob Sparkowich**Matthew Story**

Civil Engineering

*Concord Sand and Gravel Quarry**Expansion—Pembroke, NH*

Adviser: Rebekah Gaudreau

Mario Giroux**Stanley Welch**

Civil Engineering

Casey Shingleton

Environmental Engineering

Road and Climate Change

Advisers: Jo Daniel, Jennifer Jacobs

Ryan Goulding

Computer Science

SAS Simulator

Adviser: Mikkell Hagen

Ryan Goulding**Nathan Jellis**

Computer Science

Green Heat Heliostat

Adviser: Ted Sparr

Joseph Grande**Thomas Harada****Kendall Masse****Evan Willis**

Computer Science

Android Health Gateway Sniffer

Adviser: Barry Reinhold

Rose Hadley

Chemistry and Neuroscience and Behavior

*Quantitative Determination of Free**Metal Ion Concentration by Fluorescence**Calibration Methods*

Adviser: Roy Planalp

Casey Hale**Thomas Paquet**

Mechanical Engineering

Lignocellulosic Ethanol Biomass Refinery

Adviser: Christopher White

Caitlin Hoffman

Chemistry

Novel Approaches for Azamacrocyclic Synthesis

Advisers: Barbara Li, Gary Weisman, Edward Wong

Blake Janelle**Jonathan Noyes****Jennifer Shartrand**

Computer Science

UNH Sustainability Mobile App

Adviser: Ted Sparr

Raymond Jones**Matthew Mazzola****Khanh Nguyen****Matthew Normandeau****Thomas Provencher****Alexandra Washakowski**

Mechanical Engineering

Michael LeVeille

Computer Science

UNH Underwater Remotely Operated Vehicle

Adviser: May-Win Thein

Amy Keding

Chemistry

College Students' Perspectives About High School Chemistry

Adviser: Christopher Bauer

Glenn Koch (guest from Elizabeth City State University)

Computer Science

Hybrid Cloud Security: Replication and Direction of Sensitive Data Blocks

Adviser: Linda Hayden (ECSU)

Alec Kulbacki

Electrical & Computer Engineering

The Secure, Automated Home

Adviser: W.T. Miller

Ryan LaRocque**Sean Mitchell****Julie Swan**

Environmental Engineering

Alexander Pape

Civil Engineering

Rainwater Harvesting for Irrigation in East Africa

Adviser: Michael Collins

Edward LaVilla

Physics

An Alternative Anti-coincidence for Angle Detecting Inclined Sensors (ADIS) System for Measuring Space Radiation

Advisers: James Connell, Clifford Lopate

Amanda Lade

Chemical Engineering

*Toxic Gold? Bioavailability of Olive Oil**Waste Phenols to Plant Matter*

Adviser: Jillian Goldfarb

Taylor Langkau

Earth Sciences Oceanography

*Phosphate Availability During Sediment**Resuspension Events in Great Bay*

Adviser: Linda Kalnejais

Ryan Lawrence (guest from Elizabeth City State University)

Chemistry

*Developing a Method for Estimating**Accumulation Rates Using CReSIS**Airborne Snow Radar from West**Antarctica*

Adviser: Linda Hayden (ECSU)

Haodan Li

Electrical & Computer Engineering

Dynamics of Air and Wind Turbine Blade Interaction

Adviser: L. Gordon Kraft

Aaron Longchamps**Christopher Neveu****Aaron Teune**

Computer Science

*Implementing a Shibboleth Single Sign**On System*

Adviser: Scott Valcourt

Matthew Lowell

Physics and Mathematics & Statistics

*Detection of Hyperpolarized Xenon-129**Through Titanium Shielding*

Adviser: F Hersman

Patrick MacArthur

Computer Science

*Design and Implementation of a High-level**Application Programming Interface for**Remote Direct Memory Access*

Adviser: Robert Russell

Kayla Mackenzie

Chemical Engineering
Palladium-tin Alloyed Catalysts for the Ethanol Oxidation Reaction in an Alkaline Medium
 Adviser: Xiaowei Teng

Matthew Mann

Mechanical Engineering

Daniel Pelcak**William Rideout**

Computer Science
TableSat IIB for the NASA Magnetosphere MultiScale (MMS) Mission
 Adviser: May-Win Thein

Matthew Marquis

Biology
Production of Barnacle Cement in Plants
 Adviser: Subhash Minocha

William Matern

Mechanical Engineering
Mathematical Model for Evaluating a Fluid Film Atop a Deflecting Solid Substrate
 Adviser: Greg Chini

Robert Moore

Computer Science
UAV Flight Handling via Multi-touch Interaction using Microsoft Surface
 Adviser: Andrew Kun

Zachary Morrill-Winter

Mechanical Engineering
Interaction of a Laminar Shear-wake with a Circular Cylinder
 Adviser: Joseph Klewicki

Abigail Morris

Earth Sciences
Seafloor Characterization of the Merrimack River Ebb Tidal Delta
 Advisers: William Clyde, Shachak Pe'eri

Matthew Mower

Chemistry and Mathematics & Statistics
Zinc Carbenoid Mediated Preparation of Novel Peptidomimetics
 Adviser: Charles Zercher

Devin Mullen

Electrical & Computer Engineering
Wireless Interface for the Project 54 Hardware Network
 Adviser: Andrew Kun

Phillip Munson

Biochemistry, Molecular and Cellular Biology

Matthew Reinhold

Physics
Carbohydrate Cancer Biomarkers: A New Technique for Structural Verification
 Adviser: Vernon Reinhold

Michael Naylor

Civil Engineering
UNH Wind Powered Bridge
 Adviser: Jean Benoit

Patrick O'Brien**Scott Picariello**

Mechanical Engineering
Mountain Bike Frame
 Adviser: Ioannis Korkolis

Laurent Officer

Earth Sciences Oceanography
Seasonal Variation of Benthic Nutrient Fluxes in the Great Bay
 Adviser: Linda Kalnejais

Lauren Pappas

Chemical Engineering
ChemECar
 Adviser: Jillian Goldfarb

Nicholas Parrillo

Physics
Water Surface Temperature and Salinity Measurements Using Raman Scattering
 Adviser: Shachak Pe'eri

Michael Pena

Electrical & Computer Engineering
Electric Saxophone
 Advisers: Francis Hludik, W.T. Miller

Carol Perkins

Electrical & Computer Engineering
Experimental Evaluation of Speech Based SMS While Driving
 Adviser: Andrew Kun

Rachel Pisa

Environmental Engineering

William Schkuta**Alexander Sellar**

Civil Engineering
Cocheco River Bank Stabilization and Erosion Control
 Adviser: Ronald Pease

Ivan Razumenic

Electrical & Computer Engineering
Pupil Diameter Based Cognitive Load Estimation in Driving Environment
 Adviser: Andrew Kun

John Romano**Carleton Simpson**

Electrical & Computer Engineering
Electric Motorcycle Conversion
 Adviser: Allen Drake

Jacob Schwartz

Computer Science
Software Engineering for the Mobile Application Market
 Adviser: Radim Bartos

Jacob Setera

Earth Sciences
Isotope Geochemistry of Willwood Formation Paleosols from the Paleocene Eocene Thermal Maximum; Bighorn Basin, WY
 Advisers: Julia Bryce, William Clyde

Jason Shuster

Physics
Characterizing Electrons in Secondary and Primary Magnetic Islands During Magnetic Reconnection
 Advisers: Li-Jen Chen, Roy Torbert

Wescott Smith

Civil Engineering
Reservoir Pond Dam Reconstruction
 Adviser: Ronald Pease

Matthew Stemkowski

Physics
Computation of the Autocorrelation Function for Solar Wind Turbulence at 1 AU Spanning Many Spatial Scales and Using Multiple Techniques
 Advisers: Charles Smith, Bernard Vasquez

Brady Stewart

Electrical & Computer Engineering
Radiation Spectrometry For CubeSat Application
 Adviser: Andrzej Rucinski

Erika Swanson

Integrated Applied Mathematics
Chlorine Corrosion in a Biomass Boiler
 Adviser: Stephen Wineberg

Karen Sweeney

Biochemistry, Molecular and Cellular
Biology

Swathi Turlapati (*post-doctoral
researcher*)

*Population Diversity of Nitrifying Bacteria
of Chronic Nitrogen Treated Soils at
Harvard Forest, MA*

Advisers: Rakesh Minocha

Spencer Tate

Environmental Sciences

*Analysis of Surface Elevation Tables (SET)
of New Hampshire Salt Marshes*

Adviser: David Burdick

Jonathan Tomer

Environmental Sciences

Land Cover Change in New Hampshire

Adviser: Russell Congalton

Cathleen Turner

Earth Sciences

*Understanding Organic Carbon Cycling in
the Great Bay: A Numerical Approach*

Adviser: Linda Kalnejais

Bryan Vangel

Environmental Sciences

*Estimating Stream Reaeration with
Gas Evasion and Sound Pressure*

Adviser: William McDowell

Nicholas Wageling

Chemistry

*Synthesis of 2,6-bis (aminomethyl)
thiophenol for Use in Modeling Biological
Metal-thiolate Bonds*

Adviser: Samuel Pazicni

Victoria Ward

Environmental Sciences (Hydrology)

*Determining the Response to Precipitation
of Hummock and Hollow Microtopography
in a Temperate Fen*

Adviser: Ruth Varner

Lindsay Warner

Environmental Engineering

*Georgetown, Maine Water Quality
Re-evaluation*

Advisers: Nancy Kinner

Charles Watkins

Environmental Engineering

Oil Flume Experiments

Adviser: Nancy Kinner

Bradley White

Chemical Engineering

UNH Campus Air Quality

Adviser: Jillian Goldfarb

Daniella Williams

Environmental Sciences

Ecology of Streams Surrounding Great Bay

Adviser: William McDowell

Rebecca Wilson

Environmental Engineering

Metal Nanoparticles for Solar Panel

Applications

Adviser: Dale Barkey

David Wood

Biology

Hailong Zhang (*research project manager*)

*Whole Genome Analysis of Multiple
Diploid Strawberry Species Using Read
Depth Coverage, SNP Density, and Percent
Heterozygosity*

Adviser: Thomas Davis

Justin Woodman

Electrical & Computer Engineering

Room Mapping Robot

Adviser: W.T. Miller

Caroline Wuest

Biology

*Developing the Technique for Genetic
Engineering of the Red Alga Porphyra*

Adviser: Subhash Minocha

Jonathan Wurtz

Physics

*Gamma Ray Polarimeter Simulation
and Development*

Adviser: Mark McConnell

Matthew Young

Physics

*On the Nonlinearity of Solar Cycles: Using
Data to Drive Predictions*

Adviser: Marc Lessard

UNH Manchester Undergraduate Research Conference

Poster Presentations

Wednesday, April 25

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.

Merima Ahmetovic

History

Rise and Fall of Slobodan Milosevic

Adviser: John Resch

Desiree Akerley

Biological Sciences

Shadowing a Medical Examiner

Adviser: Stephen Pugh

Millet Ali

Biological Sciences

EMT Certification Program

Adviser: Patricia Halpin

Nicholas Bennett

Biology

Pharmacy Technician

Adviser: Stephen Pugh

Haley Bergeron

Undeclared

Concepts of Utopian Societies

Adviser: John Resch

Jessica Bissett

Humanities

Oppressed and Oppressor: Total Institutions and Individual Freedom

Adviser: John Resch

Meagan Burd

English

Taj Mahal

Adviser: Fred Metting

David Ciampa

History

American Culture of Capitalism: The Debate on Roosevelt's New Deal 1933–1936

Adviser: John Resch

Josie Colbert

History

Lincoln's Cooper Union Speech: Public Reaction

Adviser: John Resch

Josie Colbert

History

Julia Child

Adviser: Robert Macieski

Chad Connors**Aaron Green****Michael Henenberg****Damir Ibrahimovic****Aaron Jarzombek****Brandon McLaughlin****Johnny Mom****Evan Morse****Edward Pulkowski**

Electrical Engineering Technology

Brice Rader**Bethany Ross****Jonathan Schultz****Skyler Swendsboe****Matthew Vartanian**

Computer Information Systems

*Capstone Experience: Undergraduate**Research Group in Speech at UNHM*

Advisers: James Bartoldus, Michael Jonas

Rebecca Cronk

Biological Sciences

APS Video Contest: The Funny Bone

Adviser: Patricia Halpin

Rebecca Cronk

Biological Sciences

Principles of Biology II Teaching Assistant Capstone

Adviser: Patricia Halpin

Elizabeth Derderian

History

The Immigration Restriction League and the Immigration Act of 1924

Adviser: John Resch

Victoria DiPippo

Humanities

Reformation: Luther's Doctrines and Biblical Interpretations

Adviser: John Resch

Ashley Eames

Biology

Jessica Normand

Biological Sciences

APS Video: The New Intoxication

Advisers: Patricia Halpin, Stephen Pugh

Jennifer Evans

Biological Sciences

Prehospital Emergency Care: The EMT's Role

Adviser: Stephen Pugh

Nancy Fernandes

Biology

Sequencing Mitochondrial DNA: A Circle Approach

Adviser: Sarah Kenick

Renelle Gagnon

Biology

Municipal Water Testing

Adviser: Lorraine Doucet

Ryan Gardner

Biology

Bay of Pigs Invasion

Adviser: Robert Macieski

Michael Gavin

Undeclared

Emergence of the Republican Party 1854

Adviser: John Resch

Serena Hamelin

History

The Constitutionality of the Wagner Act

Adviser: John Resch

Ashley Higgins

Biological Sciences

A Day in the Life of a Physician Assistant

Adviser: Stephen Pugh

Brittany Houghton

Biological Sciences

One Day as an Emergency Medical Technician

Adviser: Stephen Pugh

Kellie Howard

Biological Sciences and Psychology

Honduran Mission Team

Adviser: Stephen Pugh

Naida Idrizovic

Biology

A Day at OB/GYN

Adviser: Stephen Pugh

Aaron Jarzombek

Computer Information Systems

Android Mobile Joystick Controller for Seekur Robotic Systems

Adviser: Karla Vogel

Adam Karolian

Communication Arts

The Retrosexual Man in Contemporary Advertising

Adviser: Jeffrey Klenotic

Steven Keeler

General Studies

Meals on Wheels

Adviser: Patrice Mettauer

Charles Kimball

Politics and Society

America's Secret War

Adviser: Robert Macieski

Kyle Kirwin (graduate student)

History

*Korean War: MacArthur and**American Politics*

Adviser: John Resch

Riley Lamontagne

Politics and Society

Money in politics, Citizens United vs. the FEC public opinion

Adviser: John Resch

Rachel Lamy

History

Leaders in the Montgomery Bus Boycott

Adviser: Robert Macieski

Matthew Leets

Biological Sciences
Organic Winemaking at Domaine Terre Rouge
Adviser: Stephen Pugh

Stephen Lemieux

History
The Spanish Civil War: The Abraham Lincoln Brigade
Adviser: John Resch

Erin MacLaren

English
Newport Folk Festival
Adviser: Fred Metting

John Maddaus III

Computer Information Systems
Embedded Database Design
Adviser: Karla Vogel

Rebecca Mason

Biological Sciences
The Role of HAUSP in the Mitochondrial Non-transcriptional p53 Apoptotic Pathway of IMR-32 Human Neuroblastoma Cancer Cells
Adviser: Charles Walker

Jonathon Mayland

History
McCarthyism
Adviser: John Resch

Lauren Montminy

Biological Sciences
Wildlife Rehabilitation: The Process and Rewards
Adviser: Stephen Pugh

Kristen Mosher

Business
UMST 531: Community Service Experience with Families in Transition (FIT)
Adviser: Patrice Mettauer

William Nichols

Biology
Fetal Development
Adviser: Patricia Halpin

Meagan O'Neil

Undeclared
Race and Politics: Brown v. Board of Education and Public Reaction
Adviser: John Resch

Lauren Pentasuglia

Biology
HACCP
Adviser: Lorraine Doucet

Kaeley Pinkham

Biology
To Drink or Not to Drink?
Adviser: Lorraine Doucet

Jessica Poznanski

Politics and Society

Jennifer Silva

Psychology
Citizenship and Immigration
Adviser: Patrice Mettauer

Juliette Reddy

Biological Sciences
Neurologist Job Shadow
Adviser: Stephen Pugh

Christopher Reekie

Computer Information Systems
Comprehensive Virtualization Documentation System
Adviser: Karla Vogel

Lindsay Rizzo

Communication Arts
Twentieth Century America
Adviser: Robert Macieski

Martha Routos

History
Roe v. Wade: Supreme Court and Public Reaction
Adviser: John Resch

Danielle Schmidt

History
History of Graffiti in America
Adviser: Robert Macieski

Danielle Schmidt

History
Gay Rights: Don't Ask Don't Tell Policy, 1993
Adviser: John Resch

Cynthia Siemens

Undeclared
Families in Transition
Adviser: Patrice Mettauer

Justin Thibeault

Computer Information Systems

Jacqueline Tims

Biological Sciences
SpEAK: Speech Experiment Accessible Knowledge System for Capstone Speech Project
Adviser: Michael Jonas

Jacqueline Tims

Biological Sciences
What Version are You On? An Investigation into Software Configuration Management
Adviser: Mihaela Sabin

Justin Vankalken

History
Jazz Music
Adviser: Robert Macieski

UNH Manchester URC Cinema Arts Day

**Thursday, April 26
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.

Millet Ali

Jennifer Evans
Biological Sciences
The Secret Sense of the Inner Ear
Adviser: Patricia Halpin

Alyssa Bitsack

English
The Newport Folk Festival
Adviser: Fred Metting

Briana Bolton

Communication Arts
Hidden Truths
Adviser: Anthony Tenczar

Brian Burke

Communication

No Good Deed Goes Unpunished

Adviser: Anthony Tenczar

Andrew Casey

Communication Arts

Mobile Meal Time

Adviser: Jeffrey Klenotic

Sarah Cotton

English/Journalism

*The Immigrant: A Conversation With**My Papa*

Adviser: Anthony Tenczar

Brittany Debelis

Communication Arts

The Ride

Adviser: Anthony Tenczar

Katelyn Dobbs

Communication Arts

The Story Behind Jew Pond

Adviser: Anthony Tenczar

Ashley Eames

Biology

Jessica Normand

Biological Sciences

APS Video: The New Intoxication

Advisers: Patricia Halpin, Stephen Pugh

Andrew Gibson

Communication Arts

Cows

Adviser: Anthony Tenczar

Andrew Gibson

Communication Arts

Untitled #1

Adviser: Anthony Tenczar

Matthew Gillespie

Communication Arts

High Fire—a Profile Documentary

Adviser: Anthony Tenczar

Matthew Gillespie

Communication Arts

The Morning Shift

Adviser: Anthony Tenczar

Jill Johnston

Biology

Horses Digestive System

Adviser: Patricia Halpin

Ryan Liston

Communication Arts

Life in Ireland

Adviser: Anthony Tenczar

Mollie Markins

Communication Arts

Stella's Restaurant of Middle Street

Adviser: Anthony Tenczar

Elizabeth Mason

Communication Arts

Lessons for Life

Adviser: Anthony Tenczar

Rebecca Mason

Biological Sciences

Energy Production and Exercise

Adviser: Patricia Halpin

Kaeley Pinkham

Biology

*Skeletal Muscle: Through the Eyes of a**Skier*

Adviser: Patricia Halpin

Erroll James Ponio

Communication Arts

The Hitman

Adviser: Anthony Tenczar

Erroll James Ponio

Communication Arts

"Don't Go Away" Music Video

Adviser: Anthony Tenczar

Andres Reyes

Communication Arts

Riverview

Adviser: Anthony Tenczar

Andres Reyes

Communication Arts

The Q-Tip That Should Not Be

Adviser: Anthony Tenczar

Nicole Romanuk

Communication Arts

Club 47 Revived

Adviser: Fred Metting

Christopher Spencer

Communication

Just Do It.

Adviser: Anthony Tenczar

Rachael Stanley

Biological Sciences

Atrial Fibrillation

Adviser: Patricia Halpin

History Department Undergraduate Presentations

Thursday, April 26**12:30–2 p.m.****Memorial Union Building****Rooms 338/340 and 302**

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

MUB, Room 338**Session 1: An Age of Revolution****Moderator: Janet Polasky****Madeleine Beihl**

History

*From the Forest to the Freshet: The**Development of the Upper Connecticut**River Valley of New Hampshire, 1750–1820*

Adviser: Jessica Lepler

Derek Kelly

History

*People and the Press: The Role of the Press**in the American and French Revolutions*

Adviser: Janet Polasky

Alex Peterson

History and Political Science

*A Revolution Within a Revolution: The**Cherokee During the American Revolution*

Adviser: Janet Polasky

Alexa Price

History

*Loyalist Identities in Revolutionary**New Hampshire*

Adviser: Eliga Gould

Margaret Zoladkowski

History

Passion and the Public House: The Mobilization of the Colonies Towards Liberty, Independence, and the American Revolution

Adviser: Janet Polasky

MUB, Room 340

Session 2: Race and Ethnicity in America

Moderator: Jeffrey Bolster

Dustin MacKay

History

If They Lack the Punch They Won't Pull: The Crisis, Race Enterprises, and Professionalism in Manhattan, 1900–1920

Adviser: W. Jeffrey Bolster

Stephanie Moran

History

Shattered Bowls and Mirrors: Discussing the Differences Between Northern and Southern Death Practices Among 17th, 18th, and 19th Century African Americans

Adviser: W. Jeffrey Bolster

Kerry Murchie

History and Justice Studies

Irish Republican Army: Friend or Foe?

Adviser: Ellen Fitzpatrick

Jessica Tinios

History

You Can't Expatriate Me, I'm Emigrating

Adviser: W. Jeffrey Bolster

MUB, Room 302

Session 3: Twentieth-Century Russia and America

Moderator: Gregory McMahon

Cory McKenzie

History and Philosophy

Orthodoxy in Exile: The Russian Church in America

Adviser: Cathy Frierson

Ella Nilsen

History

Exploring the Relationship Between the United States Government and the Press During the Vietnam War

Adviser: Yan Lu

Elizabeth Orlowicz

Marine, Estuarine and Freshwater Biology

Total War and the Masters of Surviving: Propaganda and Advertising of World War II Companies

Adviser: Marion Dorsey

Jillian Price

Anthropology and History

A Homogenous Mass of Human Clay: Musical Propaganda in World War I America

Adviser: Marion Dorsey

Eric Pugliano

History and Geography

Mapping of the Journeys of the Children of the Gulag

Adviser: Cathy Frierson

The Naked Arts—Creativity Exposed

Act II

Thursday, April 26

12:30–2 p.m.

Paul Creative Arts Center

Hennessy Theatre,

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.

Sara Bourgeau

Xuehui Li

Danielle Pancoast

Theatre and Dance

Set, Costume and Lighting Design for "The Memory of Water," a Play by Shelagh Stephenson

Adviser: Szu-Feng Chen

Oliver Brennan

Music

Don't Stop The Beat: An Introductory Taxonomy to the World of Electronic Dance Music

Adviser: Rob Haskins

Peter Kispert

English

Diving Drifting: The Roots of Fiction

Adviser: Thomas Payne

UNH Manchester URC Engineering Technology Senior Project Presentations

Friday, April 27
8:00 a.m.–Noon
University Center
Manchester

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.

Brian Avery
Electrical Engineering Technology
G2 Screencorder
Adviser: David Forest

Richard Bouchard
Mechanical Engineering Technology
Strap Reduction on Metal Arch Assembly Machine
Adviser: Ralph Draper

Nathan Clasby
Electrical Engineering Technology
Reliable High Speed Digital Storage and Retrieval Test Mezzanine
Adviser: David Forest

Merritt Elmore
Mechanical Engineering Technology
Design of a Compressed Air Priority System for PSNH Merrimack Generating Station
Adviser: Ralph Draper

Kyle Gentle
Mechanical Engineering Technology
Thorium Free and 1500 Watt Electrode Assembly Automation
Adviser: Ralph Draper

Karen Ibey
Electrical Engineering Technology
Automated Functional Testing
Adviser: David Forest

Derek Lovely
Mechanical Engineering Technology
Flame-based Singeing Process for Nomex Products at Velcro USA, Inc.
Adviser: Ralph Draper

Brian Maltais
Electrical Engineering Technology
Pro Mariner Product Development
Adviser: David Forest

Matthew Penney
Mechanical Engineering Technology
Filling System for Degassed Oil Filled Cables
Adviser: Ralph Draper

James Shreenan
Electrical Engineering Technology
High Speed Taper Tension Control System
Adviser: David Forest

Ryan Thibeault
Mechanical Engineering Technology
Hull Penetrator Wire Twisting Process Improvement
Adviser: Ralph Draper

Corey Tong
Mechanical Engineering Technology
FDA Approved Validation of a Pharmaceutical Grade Parts Washer
Adviser: Ralph Draper

Ross Wilson
Mechanical Engineering Technology
Pin Welder Process Improvement Using Design of Experiments
Adviser: Ralph Draper

Parents Association Undergraduate Research Symposium

Welcome Breakfast with
UNH Provost John Aber and
Parents Association President
Patricia Piecuch

Friday, April 27
9–9:30 a.m.
Memorial Union Building
Granite State Room

This informal gathering gives students, faculty, and attendees an opportunity to visit with UNH Provost John Aber and Parents Association President Patricia Piecuch before experiencing the large university-wide event that follows—the Parents Association Undergraduate Research Symposium.



UNH Parents Association Undergraduate Research Symposium

**Friday, April 27, 2012
9 a.m.–3 p.m.**

High-quality undergraduate research is the hallmark of a University of New Hampshire education. With funds provided by the **Parents Association**, the University has been able to increase its support to students during the **UNH Undergraduate Research Conference (URC)**. Helping to fund student innovation: it's one of the many ways the **Parents Association** enhances the University's academic mission.

UNH Parents working on behalf of students.

 **UNIVERSITY
of NEW HAMPSHIRE**
Parents Association

Parents Association Undergraduate Research Symposium

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

Oral Presentations, Session A

Friday, April 27
9:30–10:40 a.m.
Memorial Union Building

MUB, Room 302

Ethnic Studies: African Literature: Reading and Writing the Postcolony

Moderator and Adviser:
Sandhya Shetty

Elizabeth Barker
 English Teaching and Political Science
A Nigerian Spring: How to Make the Niger Delta B(l)oom, Again

Sarah Fenerty
 English/Journalism
Emerging from the Dreamscape: Interior Lives, Exterior Realities in Nuruddin Farah's Maps

Andrew Flood
 Sociology
Transforming Characters in Nuruddin Farah's Maps

Curtis Hines
 English
Ken Saro-Wiwa and the Politics of Oil in Nigeria

Laura Yurkosky
 English Teaching
Hand-in-Glove: Big Oil Corporations and Nigerian Dictators

MUB, Room 304

Ethnic Studies: The Matter of Difference and the Middle Ages, or Language, Faith, Race, and Time

Moderator and Adviser:
Cord Whitaker

Jacob Browning
 English
The King of Tars and Dramatic Conversion Romance

Jacqueline Cordell
 English Literature and Linguistics
Presentation, Perception, and Power: The Authority of Foreign Terminology in "The Reeve's Tale" and "The Miller's Tale"

Allison Lane
 English and German
Fauset's Plum Bun, the Middle Ages, and the Reversal of Race Roles

MUB, Room 237

Feminism in Action: Women's Studies Internships

Moderator: Faina Bukher

Jonathan DiTroia
 International Business and Economics
 Adviser: Faina Bukher

Jenna Dion
 Women's Studies
 Adviser: Faina Bukher

Lauren Garza
 Sociology and Women's Studies
 Adviser: Faina Bukher

Mia Marzelli
 Art Studio
 Adviser: Faina Bukher

Brittany Zorn
 Psychology and Women's Studies
 Adviser: Faina Bukher

Kathryn Boyle-Steed
 Psychology and Women's Studies
Social Reactions to Women's Disclosure of Partner Abuse
 Adviser: Katie Edwards

MUB, Room 233

Feminist Issues in Contemporary Culture, Politics, and Hollywood Film

Moderator and Adviser:
Jennifer Borda

Hilary Juntwait
 Communication
Where is G.I. Jane? Women's Fight for Combat Positions in the Military

Eliza Mackintosh
 English/Journalism and Communication
Women in Higher Education as Depicted in the Film "Mona Lisa Smile"

Julia Maldonado
 Communication
Women and Hostile Work Environments: Representations of Sexual Harassment in North Country

MUB, Room 207

From Classroom to Cyberspace: Informational and Relational Processes in Education and Communication

Moderator: Sheila McNamee

Kendra Mack
 Communication
Viral Visualizations: Online Infographics as Reflections of the Internet's Informational Landscape
 Adviser: Josh Lauer

Kelly Martin

Communication and Psychology

Kevin New**Hollie Roma**

Communication

Relational Processes in Education

Adviser: Sheila McNamee

MUB, Room 340***Global Governance and the Changing Dynamics of International Organizations***

Moderator: Allison LeTourneau

Kayleigh Mitchell

Political Science and Spanish

United States Power in the United Nations: Can Palestine Achieve Full Membership Status

Adviser: Alynna Lyon

Alexander Parkes

Political Science and Justice Studies

Executive Leadership in the Kádár Regime of Communist Hungary

Adviser: Mary Malone

Katherine Pavone

International Affairs and History

International Justice?: The United States and the International Criminal Court

Adviser: Alynna Lyon

Laura Roach

Economics

The Ethnic and Economic Incentives to Participate in a Terrorist Organization

Adviser: Alynna Lyon

Kelley Stenberg

Political Science

UN Peacekeeping in the Democratic Republic of Congo

Adviser: Alynna Lyon

Gregory Wilson

History

Global Governance and Environmental Issues: The Responsibility of the Developed World

Adviser: Alynna Lyon

MUB, Room 330***International Affairs: Business and Economics***

Moderator: Biniam Iyob

Benjamin Frehner

International Affairs and Business Administration

German Employee Benefits and Their Effect on Corporate Culture

Adviser: Molly Wallace

David HouleInternational Affairs and Psychology
Unemployment in Spain: Analyzing the Job Market for Youth and the General Population

Adviser: Molly Wallace

Adrienne MesseInternational Affairs and Anthropology
Marketing Research of Chinese Consumerism

Adviser: Molly Wallace

Samantha ThayerInternational Affairs and Economics
Welfare Expenditures and Global Competition as Reflected in the French Government and Economy

Adviser: Molly Wallace

Mark Thorne

International Affairs and Russian

Monetary Intervention: The Currency We Value

Adviser: Molly Wallace

MUB, Room 332***International Affairs: Language, Regionalism, and Separatism***

Moderator: Jessica Robles

Elizabeth GottsegenInternational Affairs and Psychology
The Power of Language: Linguistic Effects on Social Tension Throughout the Regions of Spain

Adviser: Molly Wallace

Adam Harr

International Affairs and Linguistics

Motivations and Changes in French Language Planning

Adviser: Molly Wallace

Colin Kelley

International Affairs and Business Administration

Revitalization: Breton Stages a Comeback

Adviser: Molly Wallace

Alex MillerInternational Affairs and Political Science
Linguistic Divisions and Partisanship in Belgium

Adviser: Molly Wallace

Brendan Sheehan

International Affairs and Political Science

The End of the ETA and the Rise of the Bildu?

Adviser: Molly Wallace

Athina Simolaris

International Affairs and Spanish

A Nation Divided: Basque Nationalism and Resistance Towards a Unified Spanish State

Adviser: Molly Wallace

MUB, Room 334***International Affairs: Moving Across Borders: Immigration, Trafficking, and Study Abroad***

Moderator: Tom Haines

Justin Fairbanks

International Affairs and Anthropology

Who Can Be a Spaniard? The Effects of Spanish Policies on the Discrimination of Ethnic Minorities

Adviser: Molly Wallace

Denise Fonseca

International Affairs and Communication

The Effects of Prostitution Policy on Human Trafficking in Italy

Adviser: Molly Wallace

Emilie Hall

International Affairs and Spanish

Costa Rica: An Emigration Anomaly

Adviser: Molly Wallace

Gwynneth Heaps

International Affairs and Finance
Great Migrations: The Effects of Immigration on the Italian Economy and Government Regulations
 Adviser: Molly Wallace

Jiyoung Kwak

International Affairs and Sociology
Why South Korean Students Study in the United States
 Adviser: Molly Wallace

Katty Medina

International Affairs and Business Administration
Hispanic Business Professionals in 21st Century Spain
 Adviser: Molly Wallace

MUB, Room 336**International Affairs: Politics and Protest**

Moderator: Molly Wallace

Kendall Clark

International Affairs and Sociology
The Practice of Populism in Argentina: A Comprehensive Study of Twentieth Century Argentinean Political Leaders
 Adviser: Molly Wallace

Thomas Dolzall

International Affairs and History and Russian
Faltering Hegemony: United Russia and Party Pluralism in Putin's Russia
 Adviser: Molly Wallace

Zachary Field

International Affairs and Sociology
Italian Civic Participation: A Community Phenomenon
 Adviser: Molly Wallace

Chelsea Moyer

International Affairs and Political Science
Social Movements and Political Change in Morocco
 Advisers: Jeannie Sowers, Molly Wallace

Erin Powell

International Affairs and German
Identity and Nationalist Politics in Post-World War II Austria
 Adviser: Molly Wallace

Eranis Vizcaino

International Affairs and Spanish
Ineffective Protests
 Adviser: Molly Wallace

MUB, Room 203**Philosophy and Methods Research in Outdoor Education**

Moderator and Adviser: Brent Bell

Renee Bernier

Outdoor Education and Social Work
Experiential Education Philosophy: Intrinsic Moral Values

Renee Bernier

Outdoor Education and Social Work
Outdoor Orientation Programs: What Happens Next?

Benjamin Chase

English Teaching
Experiential Education Philosophy: The Traditional School Revised

Natalie Fortier

Outdoor Education
Experiential Education Philosophy: The Role of Risk

Yojin Higashibaba

Outdoor Education
Experiential Education Philosophy: The Search for Higher Truth

Thomas Weaver

Outdoor Education
Wilderness Medical Training Requirements for Outdoor Orientation Programs

MUB, Strafford Room**Studies in Spanish Syntax 1**

Moderator and Adviser: John Chaston

Kate Brock

Spanish
Distinguishing que, el que, el cual in Spanish Language Print Media

Ann Emmerling

Spanish
Give me an A: Looking at UNH Students' Understanding of the Spanish Personal a

Sean Farley

Spanish
Article and Noun Agreement in Spanish: A Minor or Major Detail?

Alyssa Freedman

Psychology and Spanish
Passive se and ser in Three Spanish Language Magazines: Usages and Styles Compared

Marilyn Goscinski

Spanish
The Spanish Preterite and Present Perfect in Spain and Cuba: Usages Compared

Hilary Miller

Chemistry and Spanish
Regional Variation in the Occurrence of Spanish loísmo, leísmo, and laísmo

MUB, Room 321**The Rise of China: War and Exports**

Moderator: Michael Cole

Patricia Donahoe

International Affairs and Political Science
China's Changing Outlook: Understanding China's Arms Export Policy
 Adviser: Lawrence Reardon

Duncan Fleming

Political Science
The Sino-Soviet Split
 Adviser: Lawrence Reardon

Patrick McManus

Political Science

International Influence on China's Economic Reform

Adviser: Lawrence Reardon

MUB, Room 338**War and Change in International Politics**

Moderator: Chris Buckman

Matthew Dennehy

Political Science

Democracies and War

Adviser: Lawrence Reardon

David Lefkin

Political Science

The UN and Syria: Responding to Oppression

Adviser: Lawrence Reardon

Christopher Lynch

Political Science

Arab Spring

Adviser: Lawrence Reardon

Stephanie Weiner

International Affairs and Political Science

Malvinas Miscalculation: The Argentine Invasion Error

Adviser: Lawrence Reardon

Parents Association Undergraduate Research Symposium**Poster Presentations, Session A****Friday, April 27****9:30–10:40 a.m.****Memorial Union Building
Granite State Room****Lisa Armstrong****Christina Polito**

Nursing

Two Cultures of Caring: A Comparative Study of Nurses' Perceptions and Experiences of Caring for People Within a Hospice Context in the United Kingdom and the United States

Adviser: Carol Williams-Barnard

Heather Balch

Psychology

Correlates of Authenticity Doubts

Adviser: Edward Lemay

Diana Bartash**Stephanie Hemway**

Nursing

Perceptions of Reasons for Tobacco Use Among College Students

Advisers: Susan Fetzer,

Carol Williams-Barnard

Madeline Bishop

International Affairs and Anthropology

Authenticity and Identity-making: Capoeira in Boston and New York

Adviser: Meghan Howey

Andrew Blake

Neuroscience and Behavior

Benjamin Wormwood (graduate student)*The Effects of Subiculum on Pre-frontal Cortex in Spatial Memory Tasks*

Adviser: Robert Mair

John Bucci (research scientist)**Denise Jurczynszak**

Biochemistry, Molecular and Cellular Biology

Mitochondrial DNA and Real Time PCR to Detect Fecal Sources in Surface Water

Adviser: William McDowell, Inga Sidor

Kimberly Buchwald

Psychology

Peer Influence on Adolescent Substance Use

Adviser: Ellen Cohn

Rebecca Butz**Candace Stohl**

Psychology

Effects of Interpersonal Trauma Across the Lifespan on Physical and Mental Health: A Study of College Women

Adviser: Katie Edwards

Daniel Buzzell**Lauren Flanagan****Connor Meiselman****Stephanie Tee**

Kinesiology

Mackenzie Fraser

Kinesiology and Management

Patterns in Athletic Director Development

Adviser: Heather Barber

Amanda Cavanaugh

Zoology

Traveling Salesperson Problem in Pigeons

Adviser: Brett Gibson

Andrew Clark**Rachel Fredette**

Animal Science: Pre-veterinary Medicine

Ovarian Mapping: Tracking the Recruitment, Growth, and Regression of Ovarian Follicles in Dairy Cattle

Adviser: David Townson

Margaret Donovan

Nutrition

A Correlative Study of Perceived Stress and Emotional Support with Weight Gain in College Students: Expanding the Young Adults Eating and Active for Health Project
Advisers: Kendra Kattleman (South Dakota University), Jesse Morrell

Natalie Gatlin

Occupational Therapy

Evaluating the Effectiveness of a Goal-directed Intervention on the Social Interaction of Youth with Neurodevelopmental Disabilities

Adviser: Lou Ann Griswold

Katrina Heisler**Danielle Van Eron**

Nursing

A Descriptive Study of Undergraduate Contraceptive Attitudes Among Students at the University of New Hampshire

Adviser: Joyce Capiello

Jessica Hinkley**Liana Newcombe**

Nursing

Understanding the Experience of Weight Gain and Body Image During Adolescent Pregnancy

Adviser: Carolyn Tobin

Rebecca Keyes

Nursing

Helping Babies Breathe: Testing Its Implementation in Rural Uganda

Adviser: Gene Harkless

Calla Lachance

Communication Sciences and Disorders

Identifying Early Markers in Autism

Adviser: Rae Sonnenmeier

Riley Laramore**Michelle Maher****Caitlin Pascoe****Jessica Skalinski**

Nutrition

Seeing Stars

Advisers: Gale Carey, Jesse Morrell

Stacey MacKinnon

Kinesiology

Collegiate Recruiting

Adviser: Heather Barber

Richard Madol

Biochemistry, Molecular and Cellular

Biology

Healthy Homes

Adviser: Semra Aytur

Kristen Manning

Nursing

A Community Approach: Improving the Health and Wellness of People with Intellectual Disabilities

Adviser: Joan Hahn

Erin McKeon

Nursing

Nurses' Experiences of Providing Prenatal Care to Immigrant Women

Adviser: Carolyn Tobin

Erin Parnell

Nursing

Midwives' Experiences of Providing Women-centered Care to Low-risk Women

Adviser: Carolyn Tobin

Allison Pendergast

Psychology and Justice Studies

Come Around to My Point of View: The Effect of Loaded and Legal Language on Mock Jury Decisions

Adviser: Ellen Cohn

Rose Stanzione

Nutrition

Food System Indicators in Selected Towns in New Hampshire

Adviser: Joanne Burke

Briana Terrill

Nursing

Identifying Gaps in Perceived Ability: Promoting Exercise in Young Adults with Disabilities

Advisers: Pamela Dinapoli, Carol Williams-Barnard

Sarah Vlachos

Nursing

Nurse Satisfaction in Caring for Elders

Adviser: Joan Hahn

William Whipple

Neuroscience and Behavior

The Traveling Salesman Problem in Rats

Adviser: Brett Gibson

Lindsey Wright

Sustainable Agriculture and Food Systems

Do Forest Edges Mediate Community Invasibility in Pastures?

Adviser: Richard Smith

Caroline Wuest

Biology

Developing the Technique for Genetic Engineering of the Red Alga Porphyra

Adviser: Subhash Minocha

Amy Wuorio

Nursing

Adolescent Perceptions on Teenage Pregnancy in an Urban New England School Setting

Advisers: Pamela Dinapoli, Gene Harkless

Julia Zamarchi

Health Management and Policy

Asthma Among Older Adults in NH: How They Manage and Control Their Condition

Advisers: Semra Aytur, Rosemary Caron

MUB, Granite State Room**Social Work: Extraordinary Experiences!**

Senior social work students complete internships in a variety of agencies that address social justice issues or work with people in need of assistance. Examples include agencies focused on health care, education, adoption, corrections, unemployment, homelessness, and refugee assimilation to U. S. culture. This year approximately 20,000 internship hours will supplement students' classroom learning and promote the University's commitment to community engagement. Their posters reflect the variety, complexity, and contributions they have made to these agencies.

Moderators: Gretchen Bean, Martha Orttman

Stephanie Brown

Social Work

The Importance of Illness Management Recovery (IMR) in the Mental Health Community

Adviser: Gretchen Bean

Sarah Carroll

Social Work

Helping Seniors Remain in their Homes: The Social Worker's Role

Adviser: Gretchen Bean

Megan Coughlin

Social Work

Healthy Teen Relationships: What Every Provider Should Know

Adviser: Gretchen Bean

Kaitlin Couture

Social Work and Justice Studies

The Realities of Human Trafficking

Adviser: Gretchen Bean

Bryan Haak

Social Work

Youth Taking Charge: Youth Advocacy

Adviser: Gretchen Bean

Katherine Hall

Social Work

Informed Consent: The Effects of State Mandated Laws on Abortion Counseling

Adviser: Gretchen Bean

Kaitlyn Noble

Social Work

Solution-based Casework: Utilizing the Strengths Perspective in Child Protective Services

Adviser: Gretchen Bean

Jessica Picone

Social Work

Overcoming Health Care Barriers for Illegal Immigrants

Adviser: Gretchen Bean

Parents Association Undergraduate Research Symposium**Oral Presentations, Session B****Friday, April 27****10:50 a.m.–Noon****Memorial Union Building****MUB, Rockingham Lounge****Comm-entary:*****The Undergraduate Journal of Communication*****10:50 a.m.–2:50 p.m.****Moderator: Melissa Deem****Alexander Bourne**

Communication

Danielle Olean

Communication

Comm-entary: *Community Outreach*

Adviser: Melissa Deem

Mary Callaghan**Yu-Chu Cheng**

Communication

Kelly Martin

Communication and Psychology

Comm-entary: *Manuscript Reviewing*

Adviser: Melissa Deem

Claire Cole**Hilary Juntwait****Jaime Sheppard**

Communication

Comm-entary: *Forum*

Adviser: Melissa Deem

Elizabeth Griffith

Communication and Women's Studies

Ruth McBain**Julia Pelczarski**

Communication

Comm-entary: *Social Media and Publicity*

Adviser: Melissa Deem

Elise Perron**Christopher Sawyer****Patrick Toomey**

Communication

Comm-entary: *Production, Design and Fundraising*

Adviser: Melissa Deem

MUB, Room 340***Contemporary Debates in Latin American Politics*****Moderators: José Carrasquillo,****Mary Malone****Danielle Baker**

Psychology and Justice Studies

Migrant Workers in Costa Rica: Why Is There So Much Controversy?

Adviser: Mary Malone

Maria Carrasquillo

Political Science and Justice Studies

Migrating South Instead of North: Examining Immigration Trends in Central America

Adviser: Mary Malone

Keper Connell

International Affairs and Spanish

Can an Army of Teachers Replace an Army of Soldiers? Evidence from Costa Rica

Adviser: Mary Malone

Kyle Murphy

Political Science and History

The Pink Tide: Where Did It Come From, and Where Is It Going?

Adviser: Mary Malone

MUB, Room 203***Effects of Mass Media Campaigns*****Moderator and Adviser:****Mark Hungerford****Andrew Cardello**

Management

ExxonMobil Natural Gas Commercial

Camilla Cooper

Communication and Political Science
Gender Representation in the Media: The Outcomes of Living in a Patriarchal Society

Jessica Kierstead

Communication and Political Science
Every Woman Has an Inner Goddess: Analyzing Jennifer Lopez's Razor Commercial

Lindsay Lemieux

Communication
What is Beautiful? The Counter-narrative to Dove Commercials

Katherine Maxwell

Communication
Rap's Finest Confronts Commander in Chief

MUB, Room 304***Ethnic Studies: Digitizing Native American Literature***

Moderator: Siobhan Senior

Ana Caguiat

English
Indigenous New England: Why a Digital Archive?
 Adviser: Siobhan Senior

Michelle Hahnl

English
Tradition and Christianity in a Narragansett Hymn
 Adviser: Siobhan Senior

Peter Kispert

English
Indigenous Women in the Native Novel
 Adviser: Siobhan Senior

Maureen McAuliffe

Anthropology
Indigenous Aesthetics and Ethics in Navajo Poetry
 Advisers: Meghan Howey, Siobhan Senior

Siobhan Smith

English
Mapping Native Space in Maine
 Adviser: Siobhan Senior

Samantha Woods

Anthropology
Curating Historic Documents: Collaborations with Wampanoag Elders
 Adviser: Siobhan Senior

MUB, Room 302***Ethnic Studies: Postcolonial Fiction: Salman Rushdie and Beyond***

Moderator: Sandhya Shetty

Kelsey Brandon

English
The Voice of the Colonized: Salman Rushdie's Literary Empire
 Adviser: Sandhya Shetty

Emily Bryant

Equine Studies
Following Haroun: An Analysis of Salman Rushdie's Great 'Children's Novel'
 Adviser: Sandhya Shetty

Daniel Healy

English Teaching
Teaching Dual Market Economic Theories Through Literature
 Adviser: Reginald Wilburn

Peter Kispert

English
Communication and Tribal Culture in Mahasweta Devi's Pterodactyl
 Adviser: Sandhya Shetty

Ann Schofield

English
The Mahavidyas: Shakti, or Feminine Energy in Hinduism
 Adviser: Sandhya Shetty

MUB, Room 321***From Surviving to Thriving: The Role of International Trade***

Moderator: Alvina Snegach

Jennifer Ballentine

Political Science
U.S.-Latin American Conflict
 Adviser: Lawrence Reardon

Jesse Childs

Political Science
Economic Inequality: How States Pursue Economic Prosperity in the International Community
 Adviser: Lawrence Reardon

Patricia Donahoe

International Affairs and Political Science
Problem Revisited: Understanding China's Arms Export Policy
 Adviser: Lawrence Reardon

Alex Miller

International Affairs and Political Science
Attaining Independence: Moving Toward Renewable Energy
 Adviser: Lawrence Reardon

MUB, Room 207***Honors Projects in Communication***

Moderator: Danielle Pillet-Shore

Paige Clairmont

Communication
Taboo Talk and Social Relationships
 Adviser: Danielle Pillet-Shore

Danielle Flynn

Communication
The Socioeconomic Impact of Dams in Developing Communities in Belize
 Adviser: Danielle Pillet-Shore

Kendra Mack

Communication
Code as Sword: How the Concept of Information Warfare Fabricates Digital Heroes, Adversaries, and Victims
 Adviser: Joshua Meyrowitz

Kelly Martin

Communication and Psychology
The Student-consumer: Implications of a Metaphor on Higher Education
 Adviser: Sheila McNamee

MUB, Room 330***International Affairs: Economics, Culture, and Development*****Moderator:** Gregg Orifici**Nicolas Farr**

International Affairs and Political Science
How Mega Sporting Event Preparations are Affecting Development in Rio de Janeiro
 Adviser: Molly Wallace

Zander Fogg

International Affairs and Environmental and Resource Economics
Tourism and Authentic Culture in France
 Adviser: Molly Wallace

Marissa Lucas

International Affairs and Communication
Cultural Factors Shaping Spain's Economic Stagnation
 Adviser: Molly Wallace

Stephanie E. Morris

International Affairs and Russian
No Country for Old Men: Russia's Male Demographic Crisis
 Adviser: Molly Wallace

Tawny Saez

International Affairs and Anthropology
Community-based Tourism in the Brazilian Amazon: Anã Case Study, Balancing Development and Conservation
 Adviser: Molly Wallace

MUB, Room 332***International Affairs: Education, Inequality, and Integration*****Moderator:** Claire Malarte-Feldman**Mikaela Buchinski**

International Affairs and Political Science
Education in Shanghai and Its Effect on Income Inequality
 Adviser: Molly Wallace

Kaci Greatorex

International Affairs and Anthropology
The Battle for Education Reform in Chile
 Adviser: Molly Wallace

Amelia Marden

International Affairs and English Teaching
Educational Inequality for Students of North African Immigrant Origin in France
 Adviser: Molly Wallace

Teagan Morin

International Affairs and Theatre and Dance
Integration within Parisian Education
 Adviser: Molly Wallace

Michael Vidal

International Affairs and Psychology
Ethnicity and Education in Ghana
 Adviser: Molly Wallace

MUB, Room 334***International Affairs: Environmental Policies and Impacts*****Moderator:** Jennifer Purrenhage**Madeline Bishop**

International Affairs and Anthropology
Climate Change, Cosmology, and Cultural Resilience: An Andean Case Study
 Adviser: Molly Wallace

Peter Calhoun

International Affairs and Civil Engineering
Examining the Structure of Relationships between Transnational Corporations, Governments, and Environmental Policy: The Case of Texaco in the Ecuadorian Amazon
 Adviser: Molly Wallace

Ryan Greenwood

International Affairs
Rose-colored Water: Why the Jordanian Government is Not Addressing Dangerous Levels of Radium in the Disi Aquifer
 Adviser: Molly Wallace

Theresa Lewis

International Affairs and Political Science
Wasting Conservation: Solid Waste and Water Management in Costa Rica
 Adviser: Molly Wallace

Christopher Semaan

International Affairs and Political Science
China: Why Environmental Legislation is Ineffective at Mitigating Pollution
 Adviser: Molly Wallace

MUB, Room 336***International Affairs: Identity and Culture—Implications for Health, Politics, and Economics*****Moderator:** Richard Parks**Michelle Estee**

International Affairs and French
The Effects of Globalization on French Health and Gastronomy
 Adviser: Molly Wallace

Tess Milliken

International Affairs and Sociology
Gender Inequality in Spain and How it Affects the Emotional Health of Spanish Mothers with Careers
 Adviser: Molly Wallace

Carleen Rickarby

International Affairs and Art Studio
A Shift in Culture: Contemporary Art in France
 Adviser: Molly Wallace

Eva Skewes

International Affairs and History
Liberté, Égalité and Fraternité: French Identity and the Construction of National History
 Adviser: Molly Wallace

Basil Thomson

International Affairs and Spanish
Constructing Identity in Buenos Aires: Soccer's Violent Barra Brava
 Adviser: Molly Wallace

MUB, Room 338***International Affairs: Policies in International and Comparative Perspective***

Moderator: Benjamin Cole

Desiree Carron

International Affairs and Civil Engineering

A Comparative Study of Public Transportation Systems in Germany and the United States

Adviser: Molly Wallace

Conor HughesInternational Affairs and Political Science
International Heartache and Abduction: Japan vs. the World

Adviser: Molly Wallace

Matthew JonesInternational Affairs and Communication
Brazil and the United States: Entertainment Law and the Creative Process

Adviser: Molly Wallace

Sean WatersInternational Affairs and French
Genetically Modified Organisms: Policies on Labeling in the United States and the European Union

Adviser: Molly Wallace

Kelly Whittier

International Affairs and Health Management and Policy

Aid Influx into Madagascar: The Damage of the U.S. Sanctions Effect

Adviser: Molly Wallace

MUB, Room 237***Multidisciplinary Session 1: Research Topics in Kinesiology, Health Management, and Exercise Science***Moderator: Patricia Craig,
Dain LaRoche**Camilla Brett****Melissa Powers**Kinesiology and Physical Education
Researching the Lived Experiences of Young Adults with Intellectual Disabilities on a College Campus

Adviser: Michelle Grenier

Catherine Lafferty

Health Management and Policy

Jessica Ulrich (graduate student)*Addressing Persistent Public Health Issues via Academic Community Partnerships*

Advisers: Rosemary Caron

Christopher Logan

Kinesiology

Lower-extremity Forces Influence the Energy Cost of Walking

Adviser: Dain LaRoche

Paige RicciHealth Management and Policy
The Pregnancy Project: Impact of Ultrasound Use During Pregnancy Care

Adviser: Robert McGrath

Samantha Scarneo

Kinesiology

Physiological Effects of Acute Bouts of Aquatic and Land Based Sprinting

Adviser: Summer Cook

Charlotte Slate

Exercise Science

Static Balance Testing Predicts Gait Performance in Middle-aged and Older Women

Adviser: Dain LaRoche

MUB, Room 233***State Formation and Survival in the Anarchic World***

Moderator: Victoria Adewumi

Andrew Coukos

Political Science

Establishing Southern Sudan: Religion, Ethnicity, and Nation-building

Adviser: Lawrence Reardon

James Lennon

Political Science

The Necessity of Colonization: A Defense of the Undefendable

Adviser: Lawrence Reardon

Patrick Marvin

Political Science and Justice Studies

A Grand Strategic Vision for the 21st Century

Adviser: Lionel Ingram

Brian O'Connor

Political Science

Seeking Democracy Under Untenable Circumstances: The Case of Kurdistan

Adviser: Lawrence Reardon

MUB, Strafford Room***Studies in Spanish Syntax 2***

Moderator: John Chaston

Andrew Becker

International and Development Economics and Spanish

What's His Style? A Spanish Narrative Analysis of Past Reference Verb Usage in The Patagonian Express

Adviser: John Chaston

Kayleigh Mitchell

Political Science and Spanish

Se what?! Identification and Analysis of the Most Common Uses of Spanish se

Adviser: John Chaston

Laura Simard

Spanish

Se Usage and Meaning in Laforet's El Aguinaldo

Adviser: John Chaston

Emily Spicer

Spanish

Identifying Meaning Within Imperfect and Preterite Usage in Spanish Narrative

Adviser: John Chaston

Abby Zelenka

Spanish

Don't Know What to se? An In-depth Look at the Passive se and Passive se Usage and Style in Literary Texts

Adviser: John Chaston

Parents Association Undergraduate Research Symposium

Poster Presentations, Session B

Friday, April 27**10:50 a.m.–Noon****Memorial Union Building
Granite State Room****Elizabeth Adejuyigbe**

Health Management and Policy

Do Neighborhood Characteristics Influence the Existence of Asthma in Children?

Adviser: Robert McGrath

Gianelle Avola**Jennifer Lyon**

Nursing

Understanding Caregiver Factors Influencing Childhood Influenza Vaccinations

Adviser: Pamela Dinapoli

Michaela Barhite

Nutrition

Do Environmental Chemicals Predict Weight Gain in College-aged Females?

Adviser: Gale Carey

Catherine Bousquet

Psychology and Justice Studies

The Effects of Different Types of Evidence on Jury Decisions

Adviser: Ellen Cohn

Samantha Bouvier**Kasey Lynch**

Psychology

Kathryn Boyle-Steed

Psychology and Women's Studies

Saige Jutras

Psychology and Justice Studies

Intimate Partner Violence: The Relationship Between Stages of Leaving and Personal, Relational, and Social Factors

Advisers: Kristiana Dixon, Katie Edwards

Kathryn Boyle-Steed

Psychology and Women's Studies

Annie Crossman**Ryan Hebert****Arianna Schaaff**

Psychology

Support or No Support? Questioning Community Support Given to LGBT College Students Experiencing Intimate Partner Violence

Advisers: Katie Edwards,

Kateryna Sylaska

Bradley Chamberlain

Biochemistry, Molecular and Cellular Biology

*Are Matrix Metalloproteinases (MMPs) Present in Skeletal Muscle of the Spiny Dogfish Shark, *Squalus acanthias*?*

Adviser: Paul Tsang

Jessica Child

Biochemistry, Molecular and Cellular Biology

The Effects of Environmental Enrichment on Attention in Rats

Adviser: Jill McGaughy

Mackenzie Colburn

Sociology and Justice Studies

Gendered Glass Ceilings in American Law Firms

Adviser: Rebecca Glauber

Matthew Cotton**Elora Demers****Kendall Milkey**

Biochemistry, Molecular and Cellular Biology

Megan Thompson (graduate student)*A Screen to Identify Mutants with a Sodium-induced Root Skewing Phenotype*
Adviser: Estelle Hrabak**Nicholas Dowhaniuk**

Geography

Monitoring Forest Loss and Population Growth in a Biodiversity Hotspot of Africa

Adviser: Joel Hartter

Benjamin Duckless

Biology

Influence of Cytoskeletal Stress Filaments on Cell Death in Human Cervical Carcinoma

Adviser: David Townson

Michele Forrestall

Geology

Aftershock Patterns of Oceanic Intraplate Strike Slip Earthquakes and Implications for Anomalous Aftershock Behavior of Oceanic Transform Fault Earthquakes

Adviser: Margaret Boettcher

Valerie Gauthier**Jordan Strand**

Psychology and Justice Studies

Amanda Mead

Psychology

Pressure to be Perfect: Relational and Societal Contributors to College Women's Body Dissatisfaction and Disordered Eating Behaviors

Adviser: Katie Edwards

Jeffrey Hodgdon

Music

Kinds of Online Social Support for Cancer Patients and Caregivers

Adviser: Ellen Cohn

Matthew Marquis

Biology

Production of Barnacle Cement in Plants

Adviser: Subhash Minocha

Kayla O'Meara

French

L'écritain en Souffrance: Henry Miller à Dijon

Adviser: Nadine Berenguier

Hannah Paroline

Chemistry

Amide N-Oxides: Potential Oxygen Atom Transfer Agents?

Adviser: Arthur Greenberg

Corey Peden

Nursing

*An Investigative Study of Nurses' Attitudes Towards Death and The Relation to Coping Strategies After Patient Death*Advisers: Gerard Tobin,
Carol Williams-Barnard**Jordan Perry****Rachel Trainque**

Psychology

Helping Behavior in Situations at Risk for Sexual Violence: Does Friends' Approval Matter?

Adviser: Victoria Banyard

Alli Puchlopek

Sociology

UNH Students' Attitudes Toward Bisexuality

Adviser: Rebecca Glauber

Amanda Regis

Sociology

The Motherhood Earnings Penalty: A Study of Inequity Between Daycare Providers and Elementary School Teachers

Adviser: Rebecca Glauber

Branden Singh

Psychology

Independent Voters: Changing Role 1960–2004

Adviser: John Resch

Erika Swanson

Integrated Applied Mathematics

Chlorine Corrosion in a Biomass Boiler

Adviser: Stephen Wineberg

Christine Turner

Political Science and Spanish

The Students' Vote

Adviser: Dante Scala

Alison Wirshing

Biology

*Genetic Engineering of Dunaliella Species to Improve Use in Biofuel Production*Advisers: Leland Jahnke,
Subhash Minocha**Katherine Wooten**

Neuroscience and Behavior

Are Female Rats Prone to the Same Stress-induced Memory Deficits as Male Rats in a Visible Platform Task in the Morris Water Maze?

Adviser: Robert Drugan

English 602 Advanced Professional and Technical Writing Posters

Moderator and Adviser:

Christy Beemer

Nicole Avedikian

International Business and Economics and Marketing

Nicholas Brown

Communication

Caitlin Cassella

English

Kristen DeCandia

Sport Studies

Bronwyn Field

English

Brian Gingras

Political Science and English

Alexander Hatch

English Literature and Management

Jared Hay

Communication

Connor Meiselman

Kinesiology

James Parolisi

English/Journalism

Dustin Swanson

Biomedical Science

Chloe Swift

Undeclared

Social Work: Extraordinary Experiences!Moderators: Gretchen Bean,
Martha Ortmann**Elyssa Arriel**

Social Work

Easing the Challenges of Aging: Benefits of Continuous Care Retirement Communities

Adviser: Martha Ortmann

Rebecca Bergman

Social Work

The Refugee Experience: Overseas Processing

Adviser: Martha Ortmann

Sarah Cowart

Social Work

Exploring the Impacts of I Am Moving, I Am Learning

Adviser: Martha Ortmann

Stacey Hoang

Social Work

The Waysmeet Center: A Model of Inclusiveness

Adviser: Martha Ortmann

Jocelyn Jenkins

Social Work

Social Skills Group for Children on the Autism Spectrum

Adviser: Martha Ortmann

Carla Joseph

Social Work

Hand in Hand: A Collaborative Approach to Medical Transportation

Advisers: Martha Ortmann

Lynn Mooney

Social Work

21st Century Center: Impact on Youth

Adviser: Martha Ortmann

Eleanor Wilson

Social Work

Barriers to Education for Homeless Youth

Adviser: Martha Ortmann

Parents Association Undergraduate Research Symposium

Oral Presentations, Session C

Friday, April 27
1:40–2:50 p.m.
Memorial Union Building

MUB, Room 237

An Art Historical Take on Cinema

Moderator: Patricia Emison

Catherine Armstrong

Art History

An Art Historian Looks at Film: Michael Fried and His Mentors

Adviser: Patricia Emison

Maisea Bailey

Art History

Post-war Politics and Film: A Brief Look at Benjamin, Malraux, and Bazin

Adviser: Patricia Emison

Sarah Zankowski

Art History

The Director as Artist

Adviser: Patricia Emison

MUB, Room 233

Communication and the Body

Moderator: Mardi Kidwell

Christina Forte

Communication

Face, Gaze, and Laughter in Interaction

Adviser: Mardi Kidwell

Luke Franco

Communication

Validating Claims: How We Negotiate Winning a Game

Adviser: Mardi Kidwell

Peter Geyer

Communication

Joint Attention in an Episode of Beer Making

Adviser: Mardi Kidwell

Molly McKeown

Communication

Storytelling and the Embodied Organization of Participation

Adviser: Mardi Kidwell

MUB, Theatre I

Dramatic Innovations: Original Dramas Inspired by Medieval Literature

Moderator and Adviser:

Cord Whitaker

John Aquino

Derek Byron

Kelli Cacciotti

Brianna Cameron

Martha Kobus

English

Mark McGwin

Communication

Sholanna Pemberton

English Teaching

Oliver Thomas

English/Journalism

Dramatic Innovations: Original Dramas Inspired by Medieval Literature

(The Wild Men)

Kai Beaton

English and German

Nicholas Davies

English and Business Administration

Tristen Krakie

English and Spanish

Holly Linseman

Anthropology

Kaitlyn Shouse

English Teaching

Brian Ward

English/Journalism

Dramatic Innovations: Original Dramas Inspired by Medieval Literature (Chaucer's Knights)

Rachel Carter

English and Classics

Patrick Downs

Matthew Laurion

Adam Spear

Allison Zorawowicz

English

Andrew Gilbert

English/Journalism

Peter Rizzo

English and Philosophy

Dramatic Innovations: Original Dramas

Inspired by Medieval Literature

(Lords & Ladies)

MUB, Room 302

Exploring Research in Sociology

Moderators: Rebecca Glauber,

Tom Safford

Amber Carlson

Sociology and Justice Studies

Neighborhood Disadvantage and Student's Perception of Health: An Analysis of the Current and Prior Health of College Students Once Moving to College

Adviser: Rebecca Glauber

Heather Dean

International Affairs and Sociology and Justice Studies

Suicide Survivors: A Comparative Analysis of Reactions to Suicide in China and the United States

Adviser: James Tucker

Zachary Field

International Affairs and Sociology

Media Perceptions and Public Affairs Apathy in the Politically Inexperienced: A Replication

Adviser: Karen Vangundy

Makenzie Keene

Sociology

The Effect of Working for Pay During the School Year on Educational Achievement

Adviser: Rebecca Glauber

Halie Olszowy

Sociology

The Idea of Necessity: Shopping Trends among College Students

Adviser: Catherine Moran

Alexandru Panait

Sociology

The Influence of Politics, Religious Attendance, and Education on Volunteering Rates

Adviser: Lawrence Hamilton

MUB, Room 321**Issues in Anthropology**

Moderator: Meghan Howey

Megan Barry

Anthropology

Sustainability and the Humanities

Adviser: Siobhan Senior

John DeGennaro

Anthropology

Confederate in Belize: An Archeological and Ethnohistoric Investigation of Colonial Artifacts at the McRae-Stallworth Site Near Saturday Creek

Adviser: Eleanor Harrison-Buck

Sasha Thalheimer

Anthropology and Russian

Fiber Arts in the Early Soviet Period

Adviser: Ronald LeBlanc

MUB, Room 334**Multidisciplinary Session 2:
Research Topics in the Classics
and Languages**

Moderator: Dennis Britton

Michael D'Angelo

Classics

Ovid the Vegetarian? Pythagoras' Speech in Metamorphoses 15.60–478

Adviser: Susan Curry

Kelsey Liebenson-Morse

English

Dante Gabriel Rossetti

Adviser: Rebecca Karo

Ashley Morse

Russian and German

Nastasia Kairova and Dmitry Karamazov: Carnality, Crimes of Passion, and Compassionate Acquittals in Dostoevsky's Writings

Adviser: Ronald LeBlanc

Kayla O'Meara

French

L'écrivain en Souffrance: Henry Miller à Dijon

Adviser: Nadine Berenguier

MUB, Room 332**Multidisciplinary Session 3:
Research Topics in Earth
Science, Biology, and Chemical
Engineering**

Moderator: Xiaowei Teng

Peter Abdu

Wildlife and Conservation Biology

Size Analysis and Development of Female Bluefin Tuna Gonads in the Gulf of Mexico

Adviser: William Howell

Jenny Jing

Biomedical Science

Eating Disorders and Obesity: Two Sides of the Same Coin

Adviser: Jennifer Esala

Brian McConnell

Seth Tremblay

Chemical Engineering

Floating Photobioreactors for Microalgae Growth

Adviser: Ihab Farag

Emily Smith

Chemical Engineering

Enhancement of Bio-oil by Pervaporation

Adviser: Ihab Farag

Cathleen Turner

Earth Sciences

Understanding Organic Carbon Cycling in the Great Bay: A Numerical Approach

Adviser: Linda Kalnejais

MUB, Room 336**Multidisciplinary Session 4:
Research Topics in Geography,
Psychology, Philosophy and
Political Science**

Moderator: Dovev Leung-Levine

William Altenburg

Philosophy

Thermodynamic Dissipative Systems: the Link Between Physics, Biology, and Philosophy

Adviser: Willem De Vries

Paul Goodwin

Geography

Gaying Ogunquit

Adviser: Blake Gumprecht

Andrew Kitt

Rachel Shanahan

Linnea Simm

Psychology

Alexander Sakovits

Neuroscience and Behavior

Correlates of Local and Global Stereopsis

Adviser: William Stine

Hannah Lawrence

Political Science and Justice Studies

Rachael Plushner

Political Science

Brittany Zorn

Psychology and Women's Studies

An Interrogation of Gender-neutral Spaces at UNH

Adviser: Mary Malone

Eric Saindon

Geography

Is College the Answer? How Communities Shape Decisions About College

Adviser: Benjamin Brown

Christine Warden

Philosophy and Political Science

Actors in World Politics: Identity

Adviser: Alynna Lyon

MUB, Room 338**Public Opinion: Exploratory Studies on Key Social Issues**

Moderator: Mark Hungerford

Matthew Jones

International Affairs and Communication
Public Opinion Study: Should the United States Have a National Language?
 Adviser: Mark Hungerford

Samantha Ramsdell

Communication
Public Opinion on Sexuality Education in America
 Adviser: Mark Hungerford

Samantha Simpson

Communication
Public Opinion Research on Animal Medical Testing
 Adviser: Mark Hungerford

Christopher Walker

Communication
Are Video Games More Harmful or Beneficial to Kids Today?
 Adviser: Mark Hungerford

MUB, Room 340**Studies in Spanish Syntax 3**

Moderator: John Chaston

Eliza Cope

Spanish
Spanish Mood Alternation in Temer, Esperar, Entender, Sospechar, and Parecer: Exaggerated or Real
 Adviser: John Chaston

Emilie Hall

International Affairs and Spanish
Student Usage of Prepositions in Spanish: Considerations Far Beyond por and para
 Adviser: John Chaston

Emily Koester

Spanish and Linguistics
Subjunctive Adverbial Clauses: Es posible que We Need to Take Another Look
 Adviser: John Chaston

Samuel Rheume

Art Studio
24 Hours and Beyond: Comparing Usage of the Spanish Present Perfect and Preterite
 Adviser: John Chaston

Chelsea Stickney

Spanish
Why Does the Subjunctive Follow el hecho de que in Spanish? Meaning and Style in Oral and Written Production
 Adviser: John Chaston

The Naked Arts—Creativity Exposed**Act III****Friday, April 27****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.

George Adams

Music
Sonority Hierarchy in Steve Reich's "Come Out": An Intersection of Language and Music
 Adviser: Maya Ravindranath

Jessica Emerson

Theatre and Dance
Directing "Rabbit Hole," a Play by David Lindsay-Abaire
 Adviser: David Kaye

Travis Pynenburg

English Literature
Training Wheels: The Roots of Fiction
 Adviser: Thomas Payne

College of Health and Human Services Grimes Award Competition**Friday, April 27****1:30–4 p.m.****Pettie 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 this event.

**Psychology Department
George M. Haslerud
Undergraduate Research
Conference****Friday, April 27****1:30–5 p.m.****Murkland Hall, 115**

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.

Heather Balch

Psychology
Correlates of Authenticity Doubts
 Adviser: Edward Lemay

Sarah Bradshaw

Psychology
A Rodent Model of the Ontogeny of Adolescent Attention: The Effects of Ritalin
 Adviser: Jill McGaughy

Kevin Cannon

Psychology

When Reassurance Becomes Rejection: An Experimental Exploration Into Excessive Reassurance-seeking and Interpersonal Rejection

Adviser: Edward Lemay

Eva-Molly Dunbar

Psychology

Effectiveness of Eating Concerns Mentoring Program

Adviser: Victoria Banyard

Sarah Ransom

Psychology and Justice Studies

Attributions of Responsibility for Relational Aggression: Victim and Perpetrator Reputation and Kind of Reputation

Adviser: Ellen Cohn

Erin Sandler

Classics and Psychology

Religiosity, Identity, and Depression in Late Adolescence: An Exploratory Study

Adviser: Carolyn Mebert

Choe Shannon

Psychology

Perception, Rumination and Reaction: The Role of Personality Variables in Predicting Workplace Behaviors

Advisers: Paul Harvey, Rebecca Warner

Kristen Williams

Psychology and Justice Studies

I Can't Because It's Wrong: Adolescent Moral Reasoning and Rule Violating Behavior

Adviser: Ellen Cohn

Honors English Undergraduate Research Conference

Friday, April 27**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.

Nias Achorn

English Literature

Ernest Hemingway's Treatment of Spain in The Sun Also Rises and For Whom the Bell Tolls

Adviser: Sarah Sherman

Patrice Comeau

English Teaching

Consumerism as a Form of Death Denial in F. Scott Fitzgerald's The Great Gatsby and Arthur Miller's Death of a Salesman

Adviser: Sarah Sherman

Jacqueline Cordell

English Literature and Linguistics

The Individual Voice: The Expression of Authority through Dialects, Idiolects, and Borrowed Terminology in Chaucer's Canterbury Tales

Adviser: Cord Whitaker

Joanne Deming

English Literature

The First and Final Poetry of Joanne Deming

Adviser: David Rivard

Megan Katz

English and Education

The Language of Instruction: Using Language to Empower Urban Elementary School Students

Adviser: Thomas Newkirk

Eliza Mackintosh

English/Journalism and Communication

A Digital Revolution: Journalism in Today's Society

Adviser: Thomas Haines

Renee Poisson

English Literature

The Representation of Native Women in Indigenous New England Literature

Adviser: Siobhan Senior

Travis Pynenburg

English Literature

Being the Protagonist: Player-character Identification in Contemporary Interactive Narrative

Adviser: Thomas Newkirk

Philosophy Department Undergraduate Research Conference

Friday, April 27**4–8:30 p.m.****Murkland Hall, G17**

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.

William Altenburg

Philosophy

Thermodynamic Dissipative Systems: the Link Between Physics, Biology, and Philosophy

Adviser: Willem De Vries

Christopher Bruneau

Philosophy

Ethical Intuitionism: From Ross to Audi

Adviser: Paul McNamara

Christopher Cogswell

Chemical Engineering and Philosophy

The Biological Basis of Moral Systems

Adviser: Willem De Vries

Alicia Jacobs

Philosophy

On the Benefits of Viewing Health Care as a Needs-claim

Adviser: David Hiley

Brianna Jean

Philosophy and Mathematics & Statistics

The Cause of Emergent Supervenience Relations

Adviser: Willem De Vries

Taylor Levesque

Philosophy

Defending Determinate Content

Adviser: Willem De Vries

Tailer Ransom

Philosophy and Psychology

Zombies, Epiphenomenalism and the A Posteriori Necessity of Phenomenal Consciousness

Adviser: Willem De Vries

Kevin Vanslylvong

Philosophy and History

Michel Foucault and the Confines of Historical Methodology and Historical Meaning

Adviser: David Hiley

Christine Warden

Philosophy and Political Science

Stoic Minds: Psychological Findings and the Stoic Philosophy

Adviser: Paul McNamara

Justin Ykema

Philosophy

Problem of Evil

Adviser: Willem De Vries

Student Composers' Concert

Friday, April 27

8 p.m.

**Paul Creative Arts Center
Bratton Recital Hall**

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 Composition

Three Moods for the Piano

Adviser: Christopher Kies

Nathan Faro

Music Composition

Gaslight

Adviser: Christopher Kies

Brett Gallo

Music Composition

Sextet

Adviser: Ryan Vigil

Vincent LaMonica

Music Education

Irish Suite for Brass Quintet

Adviser: Michael Annicchiarico

Molly Ann McCahan

Music Composition and Ecogastronomy

A Thirsty Fish

Adviser: Michael Annicchiarico

Zachary Onett

Music Composition

Karate

Adviser: Christopher Kies

21st Annual COLSA Undergraduate Research Conference

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.

Oral Presentations

Saturday, April 28

7:45 a.m.–2 p.m.

**Holloway Commons
Piscataqua Room**

Jacqueline Amante

Environmental Sciences

Quantifying Methane Ebullitive Flux from Subarctic Ecosystems

Adviser: Ruth Varner

Benjamin Decato

Computer Science

Gene Family Size and Expression Levels in the Genus Vibrio

Advisers: Vaughn Cooper, Philip Hatcher

Ryan Finethy

Biochemistry, Molecular and Cellular Biology

Quantitating Changes to Global Histone Modification Patterns Following Camptothecin Treatment

Adviser: Feixia Chu

Sara Gassman

Environmental Conservation Studies

Community Activism in the Gulf Coast After the Deepwater Horizon Oil Spill

Adviser: Thomas Safford

Alyssa Mixon

Biology and Classics

An Investigation of Zostera marina (Eelgrass) Resilience through Genetic Diversity

Advisers: Jim Coyer, Anita Klein,

Jeanine Olsen, Sarah Weigel

Scott Morin

Biology

Cloning cDNA of Gonadotropin-releasing Hormone (GnRH) Isoforms from Brains of Black Sea Bass, Centropomus striata

Advisers: David Berlinsky,
Wayne Decatur, Stacia Sower

Gina Soule

Applied Animal Science

Effects of Kelp Meal on Performance and Structural Growth of Conventional and Organic Dairy Calves

Adviser: Andre Brito

William Wyman

Biomedical Science

Cell Staining Techniques for Quantification of Actively Replicating S-phase Cells in Arabidopsis thaliana

Adviser: Kevin Culligan

Poster Presentations

Saturday, April 28

7:45 a.m.–2 p.m.

Huddleston Hall Ballroom

Peter Abdu

Wildlife and Conservation Biology

Alexej Siren (graduate student)

Standardizing a Non-invasive Survey Method to Estimate Population Density of American Martens in Northern New Hampshire

Adviser: Peter Pekins

Behailu Aklilu (graduate student)

Stacy Wong

Biochemistry, Molecular and Cellular Biology

The Role of Replication Protein A (RPA70C) in Response to Replication Blocks in the Model Plant Arabidopsis thaliana

Adviser: Kevin Culligan

Michaela Barhite

Nutrition

Do Environmental Chemicals Predict Weight Gain in College-aged Females?

Adviser: Gale Carey

Steven Bench

Biochemistry, Molecular and Cellular Biology

Auxin and Cytokinin Crosstalk at the Level of Gene Expression in Arabidopsis thaliana

Adviser: Dennis Mathews

Kimberly Bixby**Scott Finnance****Adrienne Morann****Cody White**

Neuroscience and Behavior

Nocturnal Swimming Activity Patterns in Melibe leonina Influenced by Localized Circadian Clock Proteins

Adviser: Winsor Watson

Kimberly Bixby**Cody White**

Neuroscience and Behavior

Presence of a Light Sensitive Molecule, Cryptochrome, in the Ventral Nerve Cord of Lobsters, Homarus americanus

Adviser: Winsor Watson

Stephanie Blevens

Biochemistry, Molecular and Cellular Biology

Use of Comparative Genomics to Determine Origin and Function of Introns in Caenorhabditis

Adviser: John Collins

John Bucci (research scientist)

Denise Jurczynszak

Biochemistry, Molecular and Cellular Biology

Mitochondrial DNA and Real Time PCR to Detect Fecal Sources in Surface Water

Adviser: William McDowell, Inga Sidor

Tyler Burks

Biology

High or Low Antibody Responder Chickens Have Differential Embryonic Bursal Gene Expression After Testosterone Exposure

Adviser: Robert Taylor

Emily Callahan

Neuroscience and Behavior

Tests for Number Discrimination in Clark's Nutcrackers (Nucifraga columbiana)

Adviser: Brett Gibson

Michael Cassella

Biochemistry, Molecular and Cellular Biology

Kati Kluck

Biology

A Pilot Study of Genetic Resilience and Diversity Among Eelgrass (Zostera marina) Populations in the New England Coastal Region

Adviser: Anita Klein

Bradley Chamberlain

Biochemistry, Molecular and Cellular Biology

Are Matrix Metalloproteinases (MMPs) Present in Skeletal Muscle of the Spiny Dogfish Shark, Squalus acanthias?

Adviser: Paul Tsang

Andrew Clark**Rachel Fredette**

Animal Science: Pre-veterinary Medicine

Ovarian Mapping: Tracking the Recruitment, Growth, and Regression of Ovarian Follicles in Dairy Cattle

Adviser: David Townson

Matthew Cotton**Elora Demers****Kendall Milkey**

Biochemistry, Molecular and Cellular Biology

Megan Thompson (graduate student)

A Screen to Identify Mutants with a Sodium-induced Root Skewing Phenotype

Adviser: Estelle Hrabak

Amanda Craig

Animal Science: Pre-veterinary Medicine

Rikki Miller (graduate student)

Developing Electrophysiological Procedures to Record Neuronal Response Properties from Thalamic Nuclei

Adviser: Brett Gibson

Miranda Cruz (graduate student)

John Doyle

Environmental Conservation Studies

Sustainability and the Oyster River Cooperative School District

Adviser: Shelley Mitchell

Nicole D'Alessio

Environmental and Resource Economics

Donna Pohli

Tourism Planning and Development

*The Discount Rate of the Rochester-**Durham Pipeline Project*

Adviser: John Halstead

Danielle D'Amore

Biomedical Science

*Is there a Link Between Heterozygosity and**Mobility, Size, or Sex in the Blue Mussel,**Mytilus edulis? An EPIC-PCR Approach*

Adviser: Marian Litvaitis

Padraic Dayton

Environmental and Resource Economics

and Spanish

Zander Fogg

International Affairs and Environmental

and Resource Economics

Evan Girard

Environmental and Resource Economics

*Feasibility of Productive Agricultural**Use of Fallow Public Land: Case Study in**Economic and Human Development in the**Seacoast Region*

Adviser: John Halstead

Diego DelAlamo

Biochemistry, Molecular and Cellular

Biology

*Assessment of Bacterial Endosymbiont**Community Populations in Caulerpa**mexicana Using Quantitative PCR*

Advisers: Wayne Fagerberg, Louis Tisa

Jessica Dick

Environmental Sciences

*Agricultural Impacts on Soil and Plant**Litter Mineralogy*

Adviser: Jo Laird

Margaret Donovan

Nutrition

*A Correlative Study of Perceived Stress**and Emotional Support with Weight Gain**in College Students: Expanding the Young**Adults Eating and Active for Health Project*

Advisers: Kendra Kattleman, Jesse Morrell

Benjamin Duckless

Biology

*Influence of Cytoskeletal Stress Filaments**on Cell Death in Human Cervical**Carcinoma*

Adviser: David Townson

Umija Durakovic

Biochemistry, Molecular and Cellular

Biology

*Motility Mutants in Photorhabdus**temperata*

Adviser: Louis Tisa

Whit Durant

Biochemistry, Molecular and Cellular

Biology

*The Effects of PDBEs on Lipid Accumula-**tion in Liver Tissue*

Adviser: Gale Carey

Sara Edquist (graduate student)**John Marovelli**

Zoology

Christopher Wells (graduate student)**Sinead Grabbert**

Marine, Estuarine and Freshwater Biology

*Does an Invasive Intertidal Shore Crab**Affect the Population Demography of Three**Intertidal Periwinkles?*

Adviser: Larry Harris

Hannah Eldred

Biomedical Science

*Cytoplasmic Sequestration of p53 in the**Cell Line KG-1, and a Clinical Population*

Adviser: Charles Walker

Siobahn Evans

Biology

*Effects of Diabetic Conditions on Vascular**Wound Healing*

Adviser: Thomas Foxall

Kathleen Farrell

Environmental and Resource Economics

A Cost-benefit Analysis of Water Quality

Adviser: Alberto Manalo

Jonathan Fogel

Biology

*Expression of Fungal Lipases in Higher**Plants for Biodiesel Production*

Adviser: Subhash Minocha

Kathryn Fox

Plant Biology

*Petunia (Solanaceae) for the Flora of North**America*

Adviser: Janet Sullivan

Katherine Frazier**Danica Goodheart**

Applied Animal Science

*Comparing the Stress Marker Cortisol in**Pasture vs. Total Mixed Ration-fed Dairy**Cattle*

Adviser: Thomas Foxall

Mitchell Granoff

Biochemistry, Molecular and Cellular

Biology

*Identification of Novel Proteins in Transla-**tional Complexes in Saccharomyces cere-**visiae via Analytical Ultracentrifugation**with the Fluorescence Detection System*

Adviser: Clyde Denis

Taylor Hickman

Biochemistry, Molecular and Cellular

Biology

*Epigenetic Regulation of Rett Syndrome**in a Mouse Model*

Adviser: Feixia Chu

Marianne Hromis

Plant Biology

*Alpine Flora of Valtallina and Val**Malenco, Central Italian Alps*

Adviser: Janet Sullivan

Clayton Hutchinson

Environmental Sciences

*Leaf Litter Decomposition in Beaver**Habitat of the Ipswich Watershed*

Adviser: Wilfred Wollheim

Jonas Insinga

Zoology

*The Effects of Forest Management on**Mushroom-Eating Beetles*

Adviser: Donald Chandler

Jenny Jing

Biomedical Science

*Assaying Antioxidant Capacity in**Strawberry Fruit*

Advisers: Thomas Davis, Lise Mahoney

Jason Langevin

Marine, Estuarine and Freshwater Biology
Effect of Food Selection on the Survival and Growth Rate of the Bryozoan Bugula neritina
 Adviser: Larry Harris

Katherine Lantz

Biomedical Science
Production of Human Alpha-galactosidase A in Plants
 Adviser: Subhash Minocha

Riley Laramore**Michelle Maher****Caitlin Pascoe****Jessica Skalinski**

Nutrition
Seeing Stars
 Advisers: Gale Carey, Jesse Morrell

Bethany Lefebvre

International Affairs and Environmental Conservation Studies
Development of a High-sensitivity Method to Detect Accumulation of Cyanobacteria Toxins, Microcystins, in Tissues of Cherry Tomatoes and Bush Beans
 Advisers: James Haney, Amanda Murby

Michael MacArthur

Nutrition
Effects of Evidence-based Nutritional Strategies on Body Composition and Strength in Collegiate Football Players
 Adviser: Dennis Bobilya

Adam Marquis

Wildlife and Conservation Biology
Landscape and Local-scale Effects on Stream Salamanders in Southeastern New Hampshire
 Adviser: Kimberly Babbitt

Matthew Marquis

Biology
Production of Barnacle Cement in Plants
 Adviser: Subhash Minocha

Rebecca Mason

Biological Sciences
The Role of HAUSP in the Mitochondrial Non-transcriptional p53 Apoptotic Pathway of IMR-32 Human Neuroblastoma Cancer Cells
 Adviser: Charles Walker

Leslie Mayo-Smith

Ecology, Evolution and Behavior
Charles Traverse (graduate student)
An Adaptive Walk in a Biofilm Community: Redux
 Adviser: Vaughn Cooper

Sarah McGraw

Environmental Conservation Studies
Small Farm Agro-forestry Decision Making in Central America: A Preliminary Investigation
 Adviser: Theodore Howard

Stephen McKernan

Hailong Zhang (research project manager)
Measuring Trehalose in Porphyra Using Enzymatic Assays
 Adviser: Anita Klein

Megan McLaughlin

Biochemistry, Molecular and Cellular Biology

Charles Traverse (graduate student)
Iron Competition in Biofilm-evolved Burkholderia cenocepacia
 Adviser: Vaughn Cooper

Stephanie Moses

Marine, Estuarine and Freshwater Biology
Is p53 Upregulated During Test Regeneration of the Sea Urchin, Strongylocentrotus droebachiensis
 Adviser: Charles Walker

Phillip Munson

Biochemistry, Molecular and Cellular Biology

Matthew Reinhold

Physics
Carbohydrate Cancer Biomarkers: A New Technique for Structural Verification
 Adviser: Vernon Reinhold

Megan Murray

Environmental Conservation Studies
Solid Waste Management in Urban Developing Societies: A Comparative Study of Haiti, Tanzania and India
 Adviser: Mimi Becker

Katherine Norwood

Biochemistry, Molecular and Cellular Biology and Mathematics & Statistics
Optimization of the Novel Assay Aldefluor to Measure Fluorescence in ALDH-Expressing SKBR3 Cells
 Adviser: Charles Walker

John Passero

Caleb Shaw
 Environmental Sciences
Dispersion, Population Structure, and Growth of the Newly Invasive Castor Aralia (Kalopanax septemlobus) in Durham, New Hampshire
 Adviser: Thomas Lee

Amy Reichenbach

Zoology and French
They Also Serve: Shelter Dogs as Potential Alternatives to Purpose-bred Service Dogs
 Adviser: Jessica Bolker

Jennifer Roloff

Nutrition
BAI versus BMI as a Predictor of Body Fat in College Students
 Adviser: Gale Carey

McKenzie Shaw

Biochemistry, Molecular and Cellular Biology
The Effect of Cytokinin on PIN Protein Levels in Arabidopsis thaliana
 Adviser: Dennis Mathews

Gina Soule

Applied Animal Science
Feeding Red Clover Cut at Sundown and Harvested as Baleage Did Not Improve Milk Yield in Late-Lactation Dairy Cows
 Adviser: Andre Brito

Matthew Gerding

Genetics

Jeffrey Sun (graduate student)
Direct Characterization of Vibrio parahaemolyticus Virulence Using Fruit Flies
 Adviser: Cheryl Whistler

Karen Sweeney

Biochemistry, Molecular and Cellular Biology

Swathi Turlapati (*post-doctoral researcher*)

Population Diversity of Nitrifying Bacteria of Chronic Nitrogen Treated Soils at Harvard Forest, MA

Advisers: Rakesh Minocha

Breanna Travers

Biology

Development of an Online Taxonomic Key to Stream Macroinvertebrates

Advisers: James Haney, Amanda Murby, Jeffrey Schloss

Katie Velez

Samantha Werner

Biomedical Science

Feeding Incremental Levels of Kelp Meal (Ascophyllum nodosum) Did Not Improve Milk Production in Organic Dairy Cows

Adviser: Andre Brito

Taylor Warren

Biochemistry, Molecular and Cellular Biology

The Effects of First Step Beneficial Mutations in Multiple Environments

Adviser: Vaughn Cooper

Alison Wirshing

Biology

Genetic Engineering of Dunaliella Species to Improve Use in Biofuel Production

Advisers: Leland Jahnke, Subhash Minocha

David Wood

Biology

Hailong Zhang (*research project manager*)

Whole Genome Analysis of Multiple Diploid Strawberry Species Using Read Depth Coverage, SNP Density, and Percent Heterozygosity

Adviser: Thomas Davis

Lindsey Wright

Sustainable Agriculture and Food Systems

Do Forest Edges Mediate Community Invasibility in Pastures?

Adviser: Richard Smith

Caroline Wuest

Biology

Developing the Technique for Genetic Engineering of the Red Alga Porphyra

Adviser: Subhash Minocha

William Wyman

Biomedical Science

Public Health Partnerships

Adviser: Rosemary Caron

Sarah Yunes

Biochemistry, Molecular and Cellular Biology

Determining the Presence of Cytoplasmic Sequestration of p53 in SKBR3 Breast Cancer Cells

Adviser: Charles Walker

Chemistry Department Poster Exhibition

Friday, May 4

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 adviser.

Elizabeth Brady (*graduate student*)

Kelsey Packard

Chemistry

Austin Gregoire

Undeclared

Monitoring Iso-a-acids to Evaluate Whirlpool Efficiency of Hopped Wort by HPLC

Adviser: Sterling Tomellini

Jeffrey Brulet

Chemistry

Studies on Thermal and Carbocationic Rearrangements Through Isotopic Labeling

Adviser: Richard Johnson

Kimberly Drew

Chemistry

Tandem Chain Extension Mannich Reaction: A New Synthetic Route to b-Proline

Adviser: Charles Zercher

Kathryn Dube

Chemistry

Computational Studies of Polymer Folding in Various Solvents

Adviser: Erik Berda

Justin Fleming

Chemistry

New Derivatives of Polycyclic Tetraamines

Advisers: Gary Weisman, Edward Wong

Caitlin Hoffman

Chemistry

Novel Approaches for Azamacrocyclic Synthesis

Advisers: Barbara Li, Gary Weisman, Edward Wong

Amy Keding

Chemistry

College Students' Perspectives About High School Chemistry

Adviser: Christopher Bauer

Matthew Mower

Chemistry and Mathematics & Statistics

Zinc Carbenoid Mediated Preparation of Novel Peptidomimetics

Adviser: Charles Zercher

Jake Thunstrom

Chemistry

Molecular Imprinting of poly-N-Isopropylacrylamide

Adviser: W. Rudolf Seitz

Nicholas Wageling

Chemistry

Synthesis of 2,6-bis (aminomethyl) thiophenol for Use in Modeling Biological Metal-thiolate Bonds

Adviser: Samuel Pazicni

Brittany White

Chemistry

Development of New and Scalable Synthetic Routes to Polycyclic Organic Compounds

Adviser: Richard Johnson

**Whittemore School of
Business and Economics
Paul J. Holloway
Innovation-to-Market
Prize Competition**

Championship Round

**Wednesday, May 9
12:30–6 pm
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 2012 happen.

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James Wible and Sinthy Kounlasi, WSBE URC

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