Undergraduate Research Conference
A UNIVERSITY-WIDE CELEBRATION OF RESEARCH, SCHOLARSHIP AND CREATIVITY
A welcome to participants and attendees

Welcome to the 17th annual celebration of research and discovery at the University of New Hampshire. The Undergraduate Research Conference highlights the outstanding research, scholarship and creative activities of our students and their faculty mentors, and it is a privilege to invite you to see their work firsthand.

Since it was launched as a University-wide effort in 2000, the URC has become one of UNH’s most exciting traditions, and a showcase for the remarkable ingenuity, talent and accomplishments that our students develop at UNH. The URC also honors the collaboration and mutual respect that our students and faculty enjoy, and reflects how UNH-inspired research partnerships are improving the quality of life across the Granite State and around the world.

Our conference is one of the largest and most diverse in the nation, and this year marks another record in participation. More than 1,800 students will present their findings at both the Durham and Manchester campuses, representing academic achievements in every college and school and the support of hundreds of faculty mentors.

At UNH, discovery-based education offers every student the opportunity to build the knowledge, skills and confidence he or she needs to turn ideas into action and to achieve lifelong success.

Whether your visit includes a poster session, a formal presentation, an art exhibit or a creative demonstration, you will be impressed with the participants’ knowledge and understanding. Thank you for supporting our students and New Hampshire’s flagship public research university.

Best regards,

Mark W. Huddleston, President

P.T. Vasudevan

Interim Provost and Vice President for Academic Affairs
Welcome to the annual celebration of academic excellence at the University of New Hampshire! The URC embodies UNH’s mission to offer students a discovery-based education by encouraging inquiry, exploration, and deeper immersion in their fields of study. This year, more than 1,800 students—mentored by over 325 faculty members—will present their research and scholarship at URC events, which include symposia, panel and poster sessions, performances, and prize competitions. Student presenters represent disciplines from across the academic spectrum, reflecting the breadth and depth of undergraduate research and scholarship at UNH.

The 2015–16 academic year marks the first year that the Hamel Center for Undergraduate Research is serving as the administrative home of the URC, which was previously coordinated by the Office of Engagement and Academic Outreach. We are excited to build upon the growth and success of previous years and to further promote and expand the opportunities for undergraduate research at UNH.

As the mission of the Hamel Center for Undergraduate Research is to provide resources and financial support for the research, scholarly, and creative projects of UNH students, we see our new role with the URC as a happy marriage that enables us to broaden our commitment to supporting, nurturing, and showcasing all stages of the research process.

In every research process, the final stage is the communication of findings to the wider public, and the URC enables students to 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. For many students, the URC is their first opportunity to present their work to such a broad audience. The URC is thus vital in giving students practice in speaking in public, communicating complex ideas to a general audience, sharing ideas with colleagues in their fields, and developing a deeper understanding of their subject areas. Such experience prepares students to pursue graduate study and to establish and be successful in meaningful careers.

Finally, we want to recognize the many members of the UNH community whose dedication and enthusiasm are critical to making the URC possible. You will find their names in the acknowledgements at the back of the book. The partnerships between—and shared investment of—students, faculty, staff, and administrators not only ensure the success of the URC but also demonstrate the strength of the UNH community. Thank you for joining our community as we celebrate our students’ remarkable scholarship!

Paul C. Tsang, Ph.D.
Director, Hamel Center for Undergraduate Research
Professor of Molecular, Cellular, and Biomedical Sciences

Molly Doyle, Ph.D.
Administrative Director,
Hamel Center for Undergraduate Research

Laura A. Perille, Ph.D.
URC Coordinator,
Hamel Center for Undergraduate Research
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All events are free and open to the public. Accessibility accommodation requests may be directed to Laura Perille at (603) 862-5494.
MONDAY & TUESDAY, APRIL 11-12
Monday, April 11, 5–7:30 p.m.
Graduate Research Conference (GRC) Poster Presentations
Whittemore Center Arena (8)

Graduate Research Conference (GRC) Oral Presentations
Tuesday, April 12, 9 a.m.–4 p.m.
Holloway Commons (2)

FRIDAY, APRIL 15
6–8 p.m.
2016 Senior B.A. & B.F.A. Exhibition and M.F.A. Thesis Exhibition Preview Reception
(Exhibition runs April 15–May 20, 2016)
Museum of Art, Paul Creative Arts Center (6)

TUESDAY, APRIL 19
9:30 a.m.–2:30 p.m.
UNH Manchester Undergraduate Research Conference Oral Presentations
Pandora Mill, 2nd Floor, 88 Commercial Street, Manchester

WEDNESDAY, APRIL 20
11 a.m.–1 p.m.
Thompson School of Applied Sciences Student Showcase
Stacey’s, Cole Hall (10)

12–2 p.m.
Paul College of Business and Economics University-wide Paul J. Holloway Prize Innovation-to-Market Competition
Charles & Miriam Nelson Poster Round
Peter T. Paul College Building (11)

12–2 p.m.
The Naked Arts—Creativity Exposed! (Act I)
Museum of Art, Paul Creative Arts Center (6)

1:30–4:30 p.m.
Interdisciplinary Science and Engineering (ISE) Symposium
Whittemore Center Arena (8)

3–5 p.m.
UNH Manchester Undergraduate Research Conference Poster Presentations & Computing Technology Poster Presentations
Pandora Mill, 2nd Floor, 88 Commercial Street, Manchester

THURSDAY, APRIL 21
11 a.m.–1 p.m.
UNH Manchester Undergraduate Research Conference Cinema Arts Day
Pandora Mill, 4th Floor, 88 Commercial Street, Manchester

12:15–2 p.m.
History Department Undergraduate Research Conference
Memorial Union Building, Rooms 302, 338, 340 (3)

12:40–2 p.m.
The Naked Arts—Creativity Exposed! (Act II)
Museum of Art, Paul Creative Arts Center (6)

FRIDAY, APRIL 22
9–9:30 a.m.
Parents Association Undergraduate Research Symposium Welcome Breakfast
Memorial Union Building, Granite State Room (3)

9:30 a.m.–1:25 p.m.
Parents Association Undergraduate Research Symposium
Memorial Union Building, Granite State Room and various rooms (3)

9 a.m.–3 p.m.
UNH Manchester Engineering Technology Day
Pandora Mill, 2nd Floor, 88 Commercial Street, Manchester

9 a.m.–3 p.m.
Paul College of Business and Economics Undergraduate Research Conference
Peter T. Paul College Building (11)

12:15–1 p.m.
The Naked Arts—Creativity Exposed! (Act III)
Memorial Union Building, Strafford Room (3)

1–4:30 p.m.
Paul College of Business and Economics University-wide Paul J. Holloway Prize Innovation-to-Market Competition
Bud Albin Challenge Round
Peter T. Paul College Building (11)

1:30–4 p.m.
College of Health and Human Services (CHHS) Grimes Award Competition
Pettee Hall, Rooms G-10 and 106 (9)

1:30–5 p.m.
Psychology Department George M. Haslerud Undergraduate Research Conference
McConnell Hall, Room 220 (13)

2–6 p.m.
Honors English Undergraduate Research Conference
Memorial Union Building, Theater I (3)

8–10 p.m.
Student Composers’ Concert
Paul Creative Arts Center, Bratton Recital Hall (6)

SATURDAY, APRIL 23
7:45 a.m.–1 p.m.
25th Annual College of Life Sciences and Agriculture (COLSA) Undergraduate Research Conference
Memorial Union Building, Granite State Room and Theater II (3)

SATURDAY, APRIL 30
9 a.m.–2 p.m.
Paul College First-Year Innovation and Research Experience (FIRE) Undergraduate Research Conference
Peter T. Paul College Building (11)

FRIDAY, MAY 6
3–4 p.m.
Chemistry Department Poster Exhibition
Parsons Hall, Southwest Lobby (7)

TUESDAY, MAY 10
8 a.m.–2 p.m.
Ann Manchester Kelley Nursing Inquiry Day
Memorial Union Building, Granite State Room (3)

WEDNESDAY, MAY 11
1–6 p.m.
Paul College of Business and Economics University-wide Paul J. Holloway Prize Innovation-to-Market Championship Round
Peter T. Paul College Building, G75 Auditorium (11)
BUILDING KEY

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

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

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

Poster Presentations

Monday, April 11
5–7:30 p.m.
Whittemore Center Arena

Oral Presentations

Tuesday, April 12
9 a.m.–4 p.m.
Holloway Commons

The Graduate Research Conference (GRC) is devoted to celebrating the high quality research being conducted by graduate students at UNH and is designed to showcase research from graduate students in all disciplines. Participants interact with other graduate students and faculty from across campus. Attending the GRC affords the entire university community the opportunity to participate in the graduate education experience.

2016 Senior B.A., B.F.A. and M.F.A. Exhibition and Preview Reception

Friday, April 15
6–8 p.m.
Museum of Art
Paul Creative Arts Center

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

Alexa Bebon
Fine Arts
Other Thoughts on Painting
Adviser: Benjamin Cariens

Matthew Kasabian
Fine Arts
Thoughts on Painting
Adviser: Craig Hood

Jessica Mozdierz
Fine Arts
Beyond the Threshold
Adviser: Craig Hood

Jillian Ryan
Fine Arts
Time Changes Still
Advisers: Julee Holcombe, Leah Woods

Jillian Swist
Fine Arts
Contemplating the Landscape
Adviser: Jennifer Moses

Emily Weber
Fine Arts
Women in Art and History
Adviser: Craig Hood

Harry Wolfson Slepian
Fine Arts
Where Do We Begin?
Adviser: Julee Holcombe

Lori Zibel
History
Human Rights and the Bombing of Hiroshima
Adviser: John Cerullo

Michael Feeley
Politics and Society
Veterans and PTSD
Adviser: Melinda Negron-Gonzales

Nelson Gbeve
Communication Arts
How the Use of Mobile Devices Has Altered How We Relate to Public Spaces
Adviser: Jeffrey Klenotic

Isaiah Hutchinson
Justice Studies
Can Radical Muslim Terrorists Be Rehabilitated?
Adviser: Melinda Negron-Gonzales

Jacob McQuaid
Humanities
An Investigation of Privilege and Identity Politics
Adviser: Phillip Deen

John O’Neill
History
Syria: A History of Resisting Revolution and a Failed State’s Future
Adviser: John Cerullo

Alan Provance
History
Rights and Morality: The Evolution of Public Schools in America
Adviser: John Cerullo

Ryan Sanborn
History and Politics and Society
The Pragmatism of Politics: The Voting Rights Act of 1965
Adviser: John Cerullo

Caitlin Siegle
Psychology
Nutritional Opportunities and Challenges Associated with Incarceration
Adviser: Alison Paglia

Lori Zibel
History
Human Rights and the Bombing of Hiroshima
Adviser: John Cerullo
Thompson School Undergraduate Student Showcase

Wednesday, April 20
11 a.m.–1 p.m.
Cole Hall (Stacey’s)

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

Hannah Bogart
Integrated Agricultural Management
Assessing the Feasibility of Small Scale Greenhouse Production of Small Batch Brewing Ingredients
Adviser: Jonathan Ebba

Hannah Bogart
Integrated Agricultural Management
Investigating the Business of Farm to Table Breweries
Adviser: Leslie Adams

Dylan Carney
Integrated Agricultural Management
Designing a Nonprofit Educational Permaculture Homestead
Adviser: Leslie Adams

Manuel Catala
Integrated Agricultural Management
New Era Farm
Adviser: Leslie Adams

Hannah Hibbard
Horticultural Technology
NH’s Florist World
Advisers: Jonathan Ebba, Rene Gingras

Olivia Lenox
Community Leadership
Slingshot
Adviser: Timothy Barretto

Lexus Reyna
Community Leadership
Taking Climate Action
Adviser: Timothy Barretto

Jacob Schinas
Horticultural Technology
How Red, Blue, and Purple LED Lights Affect Arugula at Different Stages of Growth
Adviser: Jonathan Ebba

Dylan Smith
Integrated Agricultural Management
Explorations in Mycocycling: Analysis of Chemical, Pollutant, and Nutritional Values in Pleurotus ostreatus Grown Using Different Agricultural and Industrial Wastes
Adviser: Leslie Adams

Sarah Webster
Community Leadership
FOOTBALL SUNDA(E)Y for the Lupus Foundation of New England
Adviser: Timothy Barretto

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

Charles and Miriam Nelson Poster Competition

Wednesday, April 20
12–2 p.m.
Peter T. Paul College Building

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

Paige Balcom
William Taveras
Mechanical Engineering
Kirby Beranger
Zoology
Mikalah Little
Sustainable Agriculture and Food Systems
Siddharth Nigam
Mechanical Engineering and Mechanical Engineering

Kendre Rodriguez
Entrepreneurial Studies
Allison Wood
Environmental Engineering
Project OASIS
Advisers: Diane Foster, Todd Guerdat, Ivaylo Nedyalkov

Melissa Cressey
Kelsie Morahan
Jiayuan Wen
Management
Jeffrey Duchesne
Entrepreneurial Studies and Management
O-Ganix
Adviser: John Ela

Cassidy Croci
Kendre Rodriguez
Entrepreneurial Studies
Matthew Haskell
Entrepreneurial Studies and Finance
Brianna Leclerc
Marketing and Entrepreneurial Studies
William Taveras
Mechanical Engineering
Allison Wood
Environmental Engineering
NH DreamTech
Advisers: Michael Collins, Jeffrey Sohl

Cassidy Croci
Kendre Rodriguez
Entrepreneurial Studies
Brianna Leclerc
Marketing and Entrepreneurial Studies
Brendan McCarthy
Finance and Management
Punch Buggy by Ento Inc.
Adviser: Devkamal Dutta

Dalton Crossan
Marketing
Ryan Farrell
Adam Riese
Finance and Management
NicoBrite
Adviser: John Ela

Matthew Haskell
Entrepreneurial Studies and Finance
Michael Martin
Stephen Nickerson
Brett Simpson
Management
College Golf Variety Pass
Adviser: John Ela
The Naked Arts—Creativity Exposed!

Act I

Wednesday, April 20
12–2 p.m.
Museum of Art
Paul Creative Arts Center

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

Alexa Bebon
Fine Arts
More Thoughts on Painting
Adviser: Leah Woods

Samantha Granville
English
Fear Is
Advisers: Jaed Coffin, Thomas Payne

Melissa Hanley
Theatre: Dance
Conflict: Storytelling through Movement
Adviser: Gay Nardone

Jessica Mozdierz
Fine Arts
Beyond the Threshold
Adviser: Craig Hood

Jillian Ryan
Fine Arts
Time Changes Still
Advisers: Julee Holcombe, Leah Woods

Emily Weber
Fine Arts
Women in Art and History
Adviser: Craig Hood

Interdisciplinary Science & Engineering (ISE) Symposium

Poster Presentations

Wednesday, April 20
9 a.m.–Noon Judging
1:30–2:30 p.m. Awards Ceremony
2:30–4:30 p.m. Open House
Whittemore Center Arena

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. Judging occurs during the morning, followed by an awards ceremony and open house with refreshments.

Chemical Engineering

Group Leader: Dr. Kang Wu

Mariah Arral
Chemical Engineering
Biosensor for NG-Hydroxy-L-Arginine
Adviser: Jeffrey Halpern

D. Ryan Barden
Chemical Engineering
Molecular Dynamics Simulation Exploring the Mobility of Structural Sub-Unit A of Protein Phosphatase 2A
Adviser: Harish Vashisth

Brady Camplin
Bioengineering
Design and Characterization of Synthetic Divergent Promoters
Adviser: Kang Wu

Justin Cournoyer
Chemical Engineering
Mechanism Studies of Thermal Decomposition of Hydrated Copper Nitrate and Cupr Sulfate
Adviser: Nan Yi

Alison Deyett
Chemical Engineering
Differentiation of Neural Stem Cells into Neurons by Visible Light-Induced Electrical Stimulation
Adviser: Kyung Jae Jeong

Thanh Dinh
Chemical Engineering
A Bioadhesive Combined with Polydopamine Coating to Enhance Biointegration
Adviser: Kyung Jae Jeong

John Fernald
Chemical Engineering
Bio-Derived Polymers: Polymerization and Properties of Itaconate Based Monomers
Adviser: John Tsavalas

Rhiannon Jacobs
Chemical Engineering
Computational Study of RNA Structure and Dynamics
Adviser: Harish Vashisth
Alexis Mack
Biochemistry, Molecular and Cellular Biology
Applications for Using Elastin-Polymers in Electrochemical Quartz Crystal Microbalance Experiments
Adviser: Jeffrey Halpern

Michael Pappas
Chemical Engineering
Characterization of Hydrocarbon Degradation by Thermophilic Geobacillus Strains
Adviser: Kang Wu

Kishan Patel
Biochemistry, Molecular and Cellular Biology and Applied Mathematics and Linguistics
KDAMPS: Antibiotics of the Next Generation
Adviser: Subhash Minocha

Garrett Thompson
Biochemistry, Molecular and Cellular Biology
Electrochemical Detection of Antioxidants Using Surface Modified Electrodes
Adviser: Jeffrey Halpern

Laura Van Beaver
Neuroscience and Behavior
Effects of Nanoparticles for DNA Delivery into Animal, Plant, and Bacterial Cells
Advisers: Subhash Minocha, Fabio Vianello

Patrick Curley
Chemistry
Preparation of a Biologically-Based, Printable Hydrogel
Adviser: Leila Deravi

Azaline Dunlap-Smith
Chemistry
Computational Chemistry of Silatranes: Testing the Limits of Modern Density Functional Theory
Adviser: Arthur Greenberg

Ryan Fitzgerald
Chemistry
Synthesis of Model Oxepin Substrates for Comparative Two Electron Oxidation Studies with Enzymes and Inorganic Compounds to Investigate Benzene Metabolism
Adviser: Arthur Greenberg

Ryan Fitzgerald
Chemistry
Dynamic NMR: An Approach to Understand the Effects of Hydrogen Bonding on Amide Rotational Barriers
Adviser: Arthur Greenberg

Matthew Griswold
Physics
Translating High-Throughput Nanofiber Fabrication Techniques for Electroactive-Protein Hybrid Textile Based Materials
Adviser: Leila Deravi

Matthew Rauch
Chemistry
Investigation of the Synthesis of 1-Methyl-4-Silatranone
Adviser: Arthur Greenberg

Civil Engineering-Dry Infrastructure
Group Leader: Dr. Tat Fu

Jacob Lessard
Chemistry
Pendant Group Effect on Single-Chain Nanoparticle Collapse via Intra-Chain Radical Polymerization
Adviser: Erik Berda

Ian Martin
Chemistry
Toward Well-Defined Single-Chain Nanoparticles via Reversible Diels-Alder Reactions
Adviser: Erik Berda

Civil Engineering-Dry Infrastructure
Group Leader: Dr. Tat Fu

David Agan
Chemistry
Model Mechanically Stabilized Earth (MSE) Wall with Modular Load Frame
Adviser: Majid Ghayoomi

Jason Beckwith
Civil Engineering
ABC Joint Project
Adviser: Charles Goodspeed

Shahriar Beigi
Chemistry
Riverdale Road Bridge Project
Adviser: Robert Henry
Mark Bennett  
David Latham  
Civil Engineering  
Cooper Hett  
International Affairs and Civil Engineering  
Finding an Alternative to Granite Curbing  
Adviser: Robert Henry

Kyle Brunelle  
Daniel Caiazzo  
Nathan Foster  
Kyle Higgins  
Civil Engineering  
I-93 Bridge over Beaver Brook, Derry, NH  
Advisers: Thomas Ballestero, Erin Bell

Bradley Casperson  
Ryan Vickers  
Civil Engineering  
Michael Langelier  
Mechanical Engineering and Philosophy  
Jasmine Seguin  
Mechanical Engineering  
Smart Building  
Advisers: Erin Bell, Kevin O’Maley

Sean Chamberlin  
Nicholas D’Ambruso  
Russell Fink  
Travis Manning  
Civil Engineering  
Memorial Bridge: Structural Monitoring  
Adviser: Erin Bell

Matthew Coleman  
Christopher Cook  
Maxwell George  
Civil Engineering  
ADA Sidewalk Design  
Adviser: Charles Goodspeed

Jacob Doerfler  
Daniel Flint  
Justin Keefe  
Justin Marr  
Mercedes Valdez  
Civil Engineering  
Proposed Shopping Center - Rochester, NH  
Adviser: Jean Benoit

Anthony Faccidomo  
Civil Engineering  
Alternative Methods for Modern Tiny Home  
Adviser: Robert Henry

Jordan Farren  
Christopher Gagne  
Tyler Peer  
Christian Rainey  
John Rudowski  
Ryan van der Heijden  
Jordan Young  
Civil Engineering  
Science Way Pavilion  
Advisers: Raymond Cook, Tat Fu

Kimberly Forance  
Amanda Oka  
Shannon Sweeney  
Katelyn Welch  
Trevor Yandow  
Civil Engineering  
Lower Plains Road over the Middlebury River  
Adviser: Ricardo Medina

Ryan Grover  
Arianna Jesi  
Joseph Kief  
Benjamin Neff  
Civil Engineering  
Page School Outreach and Bridges  
Adviser: Raymond Cook

Christopher Keenan  
Daniel Lucchetti  
Travis Panzini  
Patrick Pike  
Ryan Sheridan  
Civil Engineering  
Route 125 Intersection  
Adviser: Charles Goodspeed

Billy Kitchens  
Hilary Lamontagne  
Civil Engineering  
Town-Owned Bridge Repair Analysis  
Adviser: Charles Goodspeed

Lucas Miller  
Thomas Quillin  
Civil Engineering  
Municipal Bridge Management Program  
Adviser: Charles Goodspeed

Civil Engineering-Research  
Group Leader: Dr. M. Robin Collins

Seth Cote  
Eric Lessard  
Robert Lussier  
Alexa Mack  
Environmental Engineering  
Peru Drip Chlorination System  
Adviser: M. Robin Collins

Cassidy Croci  
Kendre Rodriguez  
Entrepreneurial Studies

Matthew Haskell  
Entrepreneurial Studies and Finance

Brianna Leclerc  
Marketing and Entrepreneurial Studies

William Tavares  
Mechanical Engineering

Allison Wood  
Environmental Engineering  
NH DreamTech  
Advisers: M. Robin Collins, Jeffrey Sohl

Jillian Crowley  
Environmental Engineering  
Climate Change and New England Roadways  
Adviser: Jennifer Jacobs

Christopher DeCarlo  
Civil Engineering  
How Does Silo Storage Time Impact Asphalt Pavement Performance and Durability?  
Adviser: Jo Daniel

Karl Duffield  
Anthony Spirou  
Benjamin Sweeney  
Environmental Engineering

Kyle Mallory  
Evan Owen  
Civil Engineering  
New Hampshire Shoreline Structure Condition Rating System  
Adviser: Kevin Gardner

John Lordan  
Bimochan Poudyal  
Civil Engineering  
Laminar Container  
Adviser: Majid Ghayoomi
Ryan van der Heijden
Civil Engineering
Analysis of Engineered Horseback Riding Surfaces
Adviser: Jean Benoit

Civil Engineering-Wet Infrastructure
Group Leader: Anthony Pontin

Lindsey Adams
Hans Weber
Civil Engineering
Alyssa Aligata
Maxwell Kenney
Justin Macek
Environmental Engineering
Tyler Kane
Environmental Engineering and Civil Engineering
Closing the Loop: Star Island Water Reuse
Adviser: James Malley

Taler Bixler
Erik Dyrness
Rebecca Maskwa
Environmental Engineering
Daniel Lewis
Colin MacNamee
Civil Engineering
Hampton Marsh Segment of East Coast Greenway
Advisers: Kevin Gardner, John Gianforte, Jennifer Jacobs

Christian Blanchard
Donald Hanson
Robert Nothnagle
Sebastian Young
Environmental Engineering
Georgetown, ME Storm Resilience Preparedness
Adviser: Nancy Kinner

Thomas Brigham
Micaela Guglielmi
Wu Yee Ng
Environmental Engineering
Design of a Small Drinking Water System for Life Cycle Sustainability: The Bethlehem Case Study
Advisers: James Malley, Weiwei Mo

Craig Curtin
James Hayden
Civil Engineering
Nutrient Reduction Plan for Newfields, New Hampshire
Adviser: Alison Watts

Christopher DeCarlo
Joseph Locore
Civil Engineering
Consequential Life Cycle Assessment of Pavement Infrastructure Design
Advisers: Eshan Dave, Weiwei Mo

Daniel Farley
Melissa Gloekler
Lukas Goerigk
Adam Moskal
Environmental Engineering
Mt. Washington Extreme Sewage Treatment Plant Assessment
Adviser: Nancy Kinner

Computer Science-Applications
Group Leader: Collette Mathias Powers

Jonathan Bache
Takoda Register
Connor Stone
Information Technology
Jigging Website
Adviser: Carl Masi

Joel Barna
Nicholas Newdorf
John Peck
Computer Science
Lamprey Networks User Experience
Advisers: Bence Cserna, Tom Harada, Barry Reinhold

Nicholas Calderan
Craig Kost
Taylor Puksta
Information Technology
Deploying DNS Security Extensions (DNSSEC)
Adviser: Scott Kitterman

Alexander Clarke
Eliza Hunt-Hawkins
Ian Powell
KimXuan Tran
Computer Science
Sailing Information System
Adviser: Radim Bartos

Connor D’Amours
Tucker Owens
Computer Science
eCLAM - Electrochemical Laboratory Analysis and Visualization Module
Advisers: R Daniel Bergeron, Jeffrey Halpern

Andrew Desjardins
Henry Ma
Information Technology
Service Monitoring at UNH
Advisers: Trenton Cavicchi, Bryan Scovill

Matthew Fox
Louis Rochette
Information Technology
Occupancy Aware HVAC System
Adviser: Tat Fu

Caleb Frantz
Joseph LeBlanc
Cody Pitman
Environmental Engineering
Deploying DNS Security Extensions (DNSSEC)
Adviser: Nicholas Kirsch

Nathan Landolt
Computer Science
Charles Wooster
Finance and Information Systems Management
Tabs Calendar App
Adviser: Jerry Marceau

Christopher Sleys
Computer Science
Regression Testing Framework
Adviser: Barry Reinhold

Bradley Snay
Zachary Specht
Computer Science
Team Scheduling Tool
Adviser: Wheeler Ruml

Charles Valenza
Computer Science
A Non-Linear Sampling Based on Lateral Subtractive Inhibition
Adviser: Richard Messner
**Computer Science-Research**

**Group Leader: Collette Mathias Powers**

**Steven Clark**  
Information Technology  
Disaster Relief Coverage Network  
Adviser: Scott Valcourt

**Nicholas Craycraft**  
Computer Science  
A System for Intentional Multithreaded Java  
Adviser: Philip Hatcher

**Peter Franchina**  
Cameron Pepin  
Joseph Puzzo  
Computer Science  
Matthew Mayer  
Computer Engineering  
Drone Communication Protocol  
Adviser: Radim Bartos

**Sean Heeley**  
Eric Hutchins  
Adam Wong  
Information Technology  
Body Cameras for Public Safety  
Adviser: Scott Valcourt

**Logan Henderson**  
Paul McNally  
Christina Wilson  
Information Technology  
Living Bridge Lighting and Data Streaming  
Adviser: Tat Fu

**Caleb Miller**  
Information Technology  
Moving Data from the Ground to the Cloud: Considerations in Data Hosting  
Adviser: Scott Valcourt

**Michael Poirier**  
Matthew Skrabal  
Computer Science  
Compiling JavaScript to C++ with an Emphasis on Optimization  
Adviser: Philip Hatcher

**Marcus Pullo**  
Timothy Sullivan  
Information Technology  
Testing Homenet  
Adviser: Tim Winters

**Earth Sciences/Environmental Science**

**Group Leader: Dr. Rosemarie Came**

**Jessica DelGreco**  
Environmental Sciences  
Characterization of Vegetation Change in an Arctic Mire Using Remotely Sensed Imagery  
Adviser: Michael Palace

**Adrien Flouros**  
Environmental Sciences  
In situ Oceanographic LiDAR as a Tool for Retrieving and Characterizing Particle Distributions in the Ocean  
Adviser: Richard Zimmerman

**Ashli Grimaldi**  
Geography  
First Freeze Date Trends across Southern New England  
Adviser: Mary Stampone

**Tyler Hampton**  
Environmental Sciences  
Near-Stream Groundwater Dynamics in Two Distinct Hydropedologic Units  
Adviser: John Davis

**Connor Hill**  
Geology  
Reggie Lalmond  
Kristie Smith  
Genna String  
Earth Sciences  
Gregory Pearsall  
Environmental Sciences  
Earthquake Recurrence Intervals on Five Oceanic Transform Faults  
Adviser: Margaret Boettcher

**Alexander Jacobson**  
Earth Sciences  
Using Magnetostratigraphy of the Shire Member of the Wasatch Formation to Understand Eocene Climate Events  
Adviser: William Clyde

**Mark Kotowski**  
Environmental Sciences  
Water Quality Analysis of the Lamprey River Watershed  
Adviser: Anne Lightbody

**Amber Mercier**  
Geography  
Evaluating the Influence of Snow Depth on the Surface Energy Balance  
Advisers: Mary Stampone, Cameron Wake

**Adam Moskal**  
Environmental Engineering  
**Jessica Woodward**  
Earth Sciences: Oceanography  
Sediment Oxygen Consumption in New England Wetlands  
Advisers: Linda Kalnejais, Anne Lightbody

**Alexander Reiner**  
Environmental Sciences  
A Statewide Application of GIS for Determining Wind Turbine Site Suitability in NH  
Adviser: Russell Congalton

**Katherine Rocci**  
Earth Sciences  
Characterization of Ice Nucleating Particles at the Western US Coast  
Adviser: Sonia Kreidenweis

**Gregory Sikora**  
Earth Sciences  
Modeling Future Impacts of Extreme Precipitation Events in the Lamprey Watershed: Does Choice of Statistical Analysis Matter?  
Adviser: Cameron Wake

**Anna Simpson**  
Earth Sciences: Oceanography  
Remineralization Ratios in the Antarctic Circumpolar Current Using Profiling Float Data  
Adviser: Matt Mazloff
Brian Taetzsch  
Environmental Sciences  
The Effects of Snow Melt on Stream Conductivity  
Advisers: Jack Dibb, James Lazarcik

---

**Electrical & Computer Engineering**  
Group Leader: Dr. Kent Chamberlin

Michael Arnoldy  
Jeremy Hochschwender  
Eric Routhier  
Environmental Sciences  
The Effects of Snow Melt on Stream Conductivity  
Advisers: Jack Dibb, James Lazarcik

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Eric Brown  
Taylor Madore  
Jacob Woodward  
Electrical Engineering  
Headset Measuring Ballistic Movements and Other Parameters  
Adviser: John LaCourse

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Michael Busby Jr.  
Ramon Da Silva Sampaio  
Travis Tisdell  
Electrical Engineering  
Electromagnetic Levitation  
Adviser: Wayne Smith

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Marc Coleman  
Steven Speck  
David Wolf  
Electrical Engineering  
Directional Electromagnetic Pulse Generator  
Adviser: Kent Chamberlin

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Ian D’Elia  
Nathaniel Levin  
Computer Engineering  
Ultrasonic Electronic Cigarette  
Adviser: Wayne Smith

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Nolan Dinero  
William Melanson Jr.  
Computer Engineering  
Early Detection of Upper Peripheral Neuropathies  
Adviser: John LaCourse

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Wilson Fwu  
Atheer Jassem  
Jonathan Mullaney  
Novina Surusa  
Electrical Engineering  
Autonomous Mapping Robot  
Adviser: Se Young Yoon

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Zachary Johnson  
Craig Woodmansee  
Taylor Woodward  
Electrical Engineering  
Musical Analog Synthesizer  
Adviser: Richard Messner

---

Geoffrey Kennedy  
Jarrett Rennie  
Electrical Engineering  
Electromagnetic Levitation  
Adviser: Kent Chamberlin

---

Evan Koester  
Electrical Engineering  
Low Frequency Audio Synthesizer Design  
Adviser: Michael Carter

---

Joshua Letterman  
Computer Engineering  
Distributed Algorithms for Implementation of Electromagnetic Wave-Scattering in Julia  
Adviser: Mark Lyon

---

Casey Liss  
Computer Engineering  
IOT Security: Hardware Implementation and Comparison of the Blake and Keccak Hash Functions  
Adviser: Qiaoyan Yu

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William Melanson Jr.  
Computer Engineering  
Rogue Election Terminal  
Adviser: Qiaoyan Yu

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Lindsay Turner  
Electrical Engineering  
Development and Testing of a Balance Platform Perturbator for Research in Neuromuscular Physiology and Biomechanics  
Adviser: Wayne Smith

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Cyle Ziegler  
Electrical Engineering  
Transparent Metamaterials  
Adviser: Nicholas Kirsch

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Mathematics, Statistics, Physics Education  
Group Leader: Dr. Sharon McCrone

Cody FitzGerald  
Mathematics  
Modeling Nosocomial Disease Outbreaks Using Differential Equations and an Agent-Based Modeling Approach  
Adviser: Adam Boucher

Erin Gallagher  
Statistics  
Economic Effects on Crime Rates  
Adviser: Michelle Capozzoli

Derek Gervais  
Physics  
Molecular Velcro: Modeling Viscosity in Introductory Physics for Life Science Courses  
Adviser: Dawn Meredith

Anna Kane  
Mathematics  
The Importance of Open Data  
Advisers: Margaret Greenslade, Samuel Pazicni

Christopher Leipold  
Mathematics  
Periodic Orbit Solutions of Plane Cootte Flow  
Adviser: John Gibson

Joseph Loftus  
Applied Mathematics  
Predictive Analytics Applied to Consumer Behavior  
Adviser: Philip Ramsey

---

Mechanical Engineering  
Group Leader: John Gianforte

Owen Allen  
Michelle Gregory  
Alex Hodsdon  
Mechanical Engineering  
Sig Sauer—Hammer Impact Efficiency  
Adviser: Marko Knezovic
Ryan Bannon
Kevin Crowley
Paige Galvin
Emily Gersbeck
Bradley Post
Mechanical Engineering
Innovative Hybrid Ski Binding
Adviser: James Krzanowski

Matthew Bemis
Carolyn Gernhard
Tyler Reeve
James Titcomb
Mechanical Engineering
Data Center Airflow Improvement
Advisers: Paul Bemis, Ivaylo Nedyalkov

Zachary Branchaud
Nicholas Burns
Christopher Knepper
James Vainauskas
Mechanical Engineering
Campus Cruiser—Electric Scooter
Adviser: Christopher White

Connor Brulotte
Nicholas Marino
Mechanical Engineering
Flow Physics Facility Drag Plate Design and Validation
Advisers: Joseph Kiewicki, Martin Wosnik

Steven Burns
Cheston Machamer
Mechanical Engineering
Automation of Sector Seal Slot Inspection
Adviser: Brad Kinsey

Samuel Cole
Eric Desjardins
Mechanical Engineering
Micro-Tube Bending
Adviser: Ioannis Korkolis

Joseph Collins
Mechanical Engineering
Static and Dynamic Response of Seed Coats and Biomimetic 3D Printed Materials
Adviser: Yaning Li

Nathan Doskocil
Alexander Hautanen
Mechanical Engineering
Continuous Tension and Compression Testing Machine for Sheet Metal Specimens
Adviser: Ioannis Korkolis

David Gottschalk
Mechanical Engineering
Design of Piezoelectric Shaker for Frequency Testing Applications
Adviser: Ivaylo Nedyalkov

Patrick O’Connor
Zachary Patnaude
Nicholas Shaw
Mechanical Engineering
SunShot Solar Receiver R&D with Brayton Energy
Adviser: Ivaylo Nedyalkov

Victoria Romano
Mechanical Engineering
Mechanical and Electrical Properties of Carbon Nanotube Yarns
Advisers: Ioannis Korkolis, David Lashmore

Carlos Sosa
Mechanical Engineering
Simulation of the Cold Rolling Process of a Polymer Matrix Composite
Advisers: Julio Briano, Barbara Calcagno, Gustavo Gutierrez

Wendy Thompson
Mechanical Engineering
Tyco Fire Protection Co-Op
Adviser: Todd Gross

Mechanical Engineering—Competition Teams

Group Leader: John Gianforte

Akhay Abraham
Tamir Blum
Abubaker Elsheikh
Adam Petit
Jesus Tudela-Longas
Mechanical Engineering
Jason Farr
Electrical Engineering
Matthew Leonard
Mechanical Engineering and Physics
Exploring Satellite Dynamics and Controls through Quadrotors
Advisers: Shuai Chen, Christopher Hashem, May-Win Thein

Ryan Bachman
Liam Collins
Aaron Connolly
Timothy Panella
John Perrella
Hunter Rowley
Mechanical Engineering
Isaac Gagnon
Computer Science
Coordinated Control of Multiple Autonomous Surface Vehicles (ASVs)
Adviser: May-Win Thein

Nathan Beaulieu
Iskandar Fendi
Brian Teune
Charles Yandell
Computer Science
Haley Bredlove
Brody McClure
Zachary Plumer
Samuel Wilkinson
Mechanical Engineering
Electrical Engineering
Nolan Dinero
Garrett Malagodi
Computer Engineering
Gregory Hatfield
Colin Pellerin
Joshua Proulx
Aaron Rist
Mechanical Engineering
Extraterrestrial Navigation with Particle Swarm Optimization (ET-NavSwarm)
Advisers: May-Win Their, Se Young Yoon

Cameron Bloom
Spencer Burke
Brandon Hasslinger
Ian Marshall
Joseph Palazini
Frank Steinman V
Mechanical Engineering
UNH Aerocats
Adviser: Todd Gross
Ryan Boulay
David Bourcier
Joseph Coleman
Luke Desmarais
Evan Duane
Brett Gervais
Nathan Hall
Keith Murray
Christopher Wall
Carlton Wolfe
Mechanical Engineering
UNH Precision Racing Car #22
Adviser: Todd Gross

Richard DiPasquale
Zhangxi Feng
Adam Gawle
Eric Nastasia
Caroline Seekins
Mechanical Engineering
Joseph Dudka
Computer Engineering
John McGuire
Stephen Tatarczuk
Electrical Engineering
UNH Lunacats 2016
Advisers: Wayne Smith, May-Win Thein

Matthew Falbe
Sital Khatiwada
John McCormack
Robert Swan
Shawn Swist
Mechanical Engineering
Lucas Lopez
Electrical Engineering
John Wallace
Information Technology
Robert Young
Computer Engineering
Underwater Remotely Operated Vehicle
Adviser: May-Win Thein

Daniel Finney
Andrew Levenbaum
Ryan Morin
Liam O’Connor
Craig Shurtleff
Stephen Tobin
Mechanical Engineering
Firefighting Robot
Adviser: Barry Fussell

**Ocean Engineering**

**Group Leader: John Gianforte**

Paige Balcom
William Taveras
Mechanical Engineering
Kirby Beranger
Zoology
Mikalah Little
Sustainable Agriculture and Food Systems
Siddharth Nigam
Mechanical Engineering and International Affairs
Kendre Rodriguez
Entrepreneurial Studies
Allison Wood
Environmental Engineering
Project OASIS
Advisers: Diane Foster, Todd Guerdat, Iyavlo Nedyalkov

**Ocean Engineering**

Timothy Barrett
Aleksandra Wojtowic
Mechanical Engineering
Design of Wingtip Devices for Marine Applications
Advisers: Iyavlo Nedyalkov, Martin Wosnik

Kaelin Chancey
Jamison Couture
Tyler Haddock
Peter Wingate
Mechanical Engineering
Tidal Turbine Deployment Platform: Seakeeping and Safety
Advisers: M. Robinson Swift, Martin Wosnik

Nathan Denoncourt
Todd Michaud
Mechanical Engineering
Wave Energy Conversion Buoy
Advisers: Kenneth Baldwin, M. Robinson Swift

**Physics/Mathematics**

**Group Leader: Dr. F. William Hersman**

Zain Abbas
Physics
Improving the Efficiency and Resolution of the Time of Flight Mass Spectrometer for Magnetospheric Applications
Adviser: Harald Kucharek

Steven Arias
Physics
Novel Method for Synthesizing Graphene on a Metal Electrode for Photovoltaic Applications
Adviser: Karsten Pohl

Morgan Daly
Physics
Studying the Neutron Response of COMPTEL
Adviser: Mark McConnell

Stewart Laroche
Physics
Firewalls and Universal Horizons in Horava-Lifshitz Gravity
Adviser: David Mattingly

Nicholas Marcellino Jr.
Physics
The Probability of an Electron-Positron Annihilation Creating Three Gamma-Ray Photons in Air
Adviser: Joseph Dwyer

Makenzie O’Meara
Physics
Magnetospheric Multiscale Mission Interaction with Bifurcated Current Sheets
Adviser: Roy Torbert
Tyler Romano  
Physics  
Testing the Performance of an Electron Retarding Potential Analyzer under Varying Gas Pressures  
Advisers: Marc Lessard, Eberhard Moebius

Matthew Tobin  
Physics  
Identifying Signatures of Magnetospheric Kelvin-Helmholz Waves in Ground Magnetometer Data  
Advisers: Charles Farrugia, Joachim Raeder

Alex Wright  
Computer Engineering and Physics  
Testing of Advanced Scintillators for Compton Telescope  
Advisers: Christopher Bancroft, Peter Bloser, Jason Legere

Teacher Science and Engineering  
Group Leader: Dr. Stephen Hale

Gavin Kearns  
Paul School  
Mechanical Experiments on 3D Printed Composites Plates  
Adviser: Yaning Li

Robert Moore  
Pelham High School  
Disc-Shaped Compact Tension (DCT) of HMA Samples with 0% and 30% Recycled Asphalt Pavement (RAP) with and without Freeze-Thaw Conditioning  
Advisers: Jo Daniel, Eshan Dave

Stephen Pascucci  
Farmington High School  
Investigating the Reformation of Ethanol over a Catalyst  
Adviser: Xiaowei Teng

Bethany Poulin  
Pelham High School  
Practical Use of Arduino Sensors in Hydrologic Research  
Adviser: Mark Green

Nicholas Bielinski  
Colin Cressman  
Greta Milingyte  
Computer Information Systems  
An Activities and Events Mobile Application  
Adviser: Raymond Wallace

Zachery Boynton  
Electrical Engineering Technology

Jonathan Cleary  
Jacob Sprague  
Computer Information Systems

Refik Karic  
Computer Engineering  
MeAndYou: The Layer between the Data and You  
Adviser: Michael Jonas

Mark Bragdon  
Computer Information Systems

Benjamin Fuller  
English

Scott Madaglia  
Mechanical Engineering Technology  
A Mobile App to Assist Early Learners with Motor Skills, Reading, and Math  
Adviser: Raymond Wallace

Martha Champagne  
Undeclared

Brian Doehner  
Computer Information Systems

Darrel Morganelli  
Electrical Engineering Technology  
Diet Meal Preparation and Exercise Tracking App  
Adviser: Raymond Wallace

Neil Champagne  
Andrew George  
Ryan O’Neal  
Daniel Stoller  
Mark Tollick  
Computer Information Systems  
MeAndYou: A League of Extraordinary Keys  
Adviser: Michael Jonas

Jonathan Cleary  
Maryjean Emerson  
Computer Information Systems

Joshua Young  
Computer Science and Entrepreneurship  
uSafeNH: A Mobile App for Helping Sexual Assault Victims on College Campuses in New Hampshire  
Adviser: Hong Jin

**UNH Manchester URC Computing Technology Presentations**

**Poster Presentations**

**Wednesday, April 20**

**3–5 p.m.**

**Pandora Mill, 2nd Floor**

**88 Commercial St., Manchester**

The UNH Manchester Computing Technology Program presents its annual Poster Project Presentation day. This event is the culmination of an academic year effort where students formally present their projects to peers, faculty members, representatives and technical advisers of sponsoring companies, and special guests.

Saverna Ahmad  
Neil Champagne  
Aaron Miller  
Michael Salem  
Computer Information Systems  
*Capstone: Systems Group*

Adviser: Michael Jonas

Saverna Ahmad  
Brenden Collins  
Justin Gauthier  
Dylan Lindstrom  
Computer Information Systems  
*MeAndYou: User Experience*

Adviser: Michael Jonas

Brenden Collins  
Brian Doehner  
Justin Gauthier  
Computer Information Systems  
*Capstone: Data Group*

Adviser: Michael Jonas

Brian Anker  
Brenden Collins  
Brian Doehner  
Justin Gauthier  
Computer Information Systems

Joshua Young  
Computer Science and Entrepreneurship  
uSafeNH: A Mobile App for Helping Sexual Assault Victims on College Campuses in New Hampshire  
Adviser: Hong Jin
<table>
<thead>
<tr>
<th>Name</th>
<th>Field</th>
<th>Title</th>
<th>Adviser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adam Connolly</td>
<td>Electrical Engineering Technology</td>
<td>Power Control Lockout System</td>
<td>Christopher LeBlanc</td>
</tr>
<tr>
<td>Kyle Cormier</td>
<td>Electrical Engineering Technology</td>
<td>Computer Science and Entrepreneurship A Mobile App to Track Exercise Performance</td>
<td>Karla Vogel</td>
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<tr>
<td>Nicholas Klardie</td>
<td>Computer Science and Entrepreneurship</td>
<td>A Configurable Database Mobile App Employing Multiple Sensors</td>
<td>Raymond Wallace</td>
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<tr>
<td>Cristian Davila</td>
<td>Communication Arts</td>
<td>Comp 415 Mobile Computing Project</td>
<td>Mihaela Sabin</td>
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<tr>
<td>Michael Huber</td>
<td>Computer Information Systems Cosmetology Android Application</td>
<td>Adviser: Raymond Wallace</td>
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<tr>
<td>Donald Kilian</td>
<td>Mechanical Engineering Technology Using Smartphone Accelerometers to Determine Position</td>
<td>Adviser: Raymond Wallace</td>
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<tr>
<td>Devlin Melvin</td>
<td>Mechanical Engineering Technology Multi-Sensor Personal Information Mobile App</td>
<td>Adviser: Raymond Wallace</td>
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<tr>
<td>Alexander Turner</td>
<td>Electrical Engineering Technology</td>
<td>Adviser: Raymond Wallace</td>
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<td>Andrew Kraines</td>
<td>Computer Information Systems Using Smartphone Accelerometers to Determine Position</td>
<td>Adviser: Raymond Wallace</td>
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<tr>
<td>Justin Purington</td>
<td>Computer Science and Entrepreneurship Django Web Application Development: City-Data Project</td>
<td>Adviser: Mihaela Sabin</td>
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<tr>
<td>Benjamin Leith</td>
<td>Communication Systems        Using Smartphone Accelerometers to Determine Position</td>
<td>Adviser: Mihaela Sabin</td>
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<tr>
<td>Ryan O’Neal</td>
<td>Computer Information Systems Using Smartphone Accelerometers to Determine Position</td>
<td>Adviser: Mihaela Sabin</td>
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<tr>
<td>James Schumacher</td>
<td>Electrical Engineering Technology</td>
<td>Adviser: Michael Jonas</td>
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<td>Jonathon Shallow</td>
<td>Computer Science and Entrepreneurship</td>
<td>Adviser: Michael Jonas</td>
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<td>Caleb Mattson</td>
<td>Electrical Engineering Technology</td>
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<td>Computer Information Systems Using Smartphone Accelerometers to Determine Position</td>
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<tr>
<td>Christopher Nobrega</td>
<td>Computer Information Systems</td>
<td>Using 3D Simulation Web App</td>
<td>Mihaela Sabin</td>
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<tr>
<td>Lamia Mukanovic</td>
<td>General Studies</td>
<td>Ensuring Student Privacy</td>
<td>Mihaela Sabin</td>
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<tr>
<td>Kyle Sanborn</td>
<td>Communication Arts</td>
<td>Ensuring Student Privacy</td>
<td>Mihaela Sabin</td>
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<tr>
<td>Daniel Lepine</td>
<td>Mechanical Engineering Technology</td>
<td>Adviser: Raymond Wallace</td>
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<tr>
<td>Heather Monterio</td>
<td>Business</td>
<td>Wundergrad: The weather. Simplified. Webapp</td>
<td>Raymond Wallace</td>
</tr>
<tr>
<td>Heather Monterio</td>
<td>Business</td>
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<td>Daniel Lepine</td>
<td>Mechanical Engineering Technology</td>
<td>Adviser: Raymond Wallace</td>
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<tr>
<td>Nigel Swanson</td>
<td>Computer Information Systems Using 3D Simulation Web App</td>
<td>Adviser: Hong Jin</td>
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<tr>
<td>Thomas Rubino</td>
<td>Information Technology</td>
<td>Using 3D Simulation Web App</td>
<td>Mihaela Sabin</td>
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<td>Jonathon Trimble</td>
<td>Computer Information Systems</td>
<td>Using 3D Simulation Web App</td>
<td>Mihaela Sabin</td>
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<tr>
<td>Mary Hall</td>
<td>Computer Information Systems</td>
<td>Using 3D Simulation Web App</td>
<td>Mihaela Sabin</td>
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<tr>
<td>Daniel Lepine</td>
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</table>
UNH Manchester
Undergraduate Research Conference

Poster Presentations

Wednesday, April 20
3–5 p.m.
Pandora Mill, 2nd Floor
88 Commercial St., Manchester

At the UNH Manchester poster presentation events, students share their independent research, internship projects, service learning activities, and civic engagement work through scholarly lectures, multimedia projects, and poster presentations.

Becky Baker
Biotechnology
An Investigation of Environmental and Medical Laboratories
Advisers: Patricia Halpin, Stephen Pugh

Franceska Balle
Biological Sciences
K-5 Science Teaching Exploration
Advisers: Patricia Halpin, Stephen Pugh

Bryanne Barna
Gabriela Diaconu
Zerina Dulas
Biological Sciences
Owen McNulty
Undeclared
Christen Palange
Business
Alexandra Twomey
Psychology
Kayla Wood
Politics and Society
Cafeteria Chaos: What Are Students Eating?
Adviser: Stephen Pimpare

Nicholas Bielinski
Computer Information Systems
Jonathan Cleary
Christopher Nobrega
Meagan Wolf
Computer Information Systems
Gregory Tinkham
Computer Science and Entrepreneurship
AppInventor to Android Studio: A Student’s Perspective in Mobile Application Development
Adviser: Hong Jin

Shaunna Bois
Biological Sciences
Lake Massabesic: Water Microbiology and Microlife
Adviser: Stephen Pugh

Mark Bragdon
Computer Information Systems
AppInventor Project
Adviser: Raymond Wallace

Shelby Burns
Biological Sciences
Pump It Up: Cardiology for Kids
Advisers: Patricia Halpin, Stephen Pugh

Caitlin Carter
Biology
Assisted Living Care Experience: An LNA’s Role
Advisers: Patricia Halpin, Stephen Pugh

Christopher Cochran
Biological Sciences
VAP Prevention
Advisers: Christine Andrews, Stephen Pugh

Ronald Corkum
Biological Sciences and Applied Mathematics
Pharmacy Technician
Adviser: Patricia Halpin

Kelly Delaney
Politics and Society
Terrorist by the Media
Adviser: Melinda Negron-Gonzales

Gabriela Diaconu
Biological Sciences
Prion Propagation in Yeast Cells
Advisers: Kyle Mac Lea, Stephen Pugh

Nathan Domingues
Biological Sciences
Internship in the Microbiology Lab at the Manchester Water Works Plant
Advisers: Sarah Prescott, Stephen Pugh, Cheryl Wood

Cody Drouin
History
Conscription and Rights
Adviser: John Cerullo

Farrah Ekbatani
Genetics
Personal Genomics of Cystic Fibrosis
Adviser: Sarah Prescott

Benjamin Fuller
English
Mobile Computing and Technology 1st and 4most Creative Final Project
Adviser: Raymond Wallace

Emma Gootee
Biological Sciences
Nepal
Adviser: Kyle Mac Lea

Victoria Gouveia
Nicole Gray
Politics and Society
Are New Hampshire High Schools’ Dress Codes Discriminatory?
Adviser: Stephen Pimpare

Cassidy John
Humanities
History of Inequality
Adviser: Phillip Deen

Almedina Karahasan
Biology
A Monitor Tech on a Cardiac Unit
Adviser: Stephen Pugh

Jennifer Ledoux
Biology
Personal Genomics of Breast Cancer
Adviser: Sarah Prescott

Satonya McNeal
English
Healthcare vs. Sickcare: Inequality in the Healthcare System
Adviser: Phillip Deen
Grant Michael  
Politics and Society  
*U.S. Involvement in the Israeli-Palestinian Conflict: Is the U.S. Acting as an 'Honest' Broker?*  
Adviser: Melinda Negron-Gonzales

John O’Neill  
History  
*Syria: A History of Resisting Revolution and a Failed State’s Future*  
Adviser: John Cerullo

Kurt Plante  
History  
*Jurisprudence in German Basic Law*  
Adviser: John Cerullo

Bionka Pouliot  
Biology  
*Life of an LNA on E100*  
Adviser: Stephen Pugh

Chaille Proksch  
Biological Sciences  
*Public Attitudes towards Antibiotic Resistance*  
Adviser: Stephen Pugh

Bruce Rheaume  
Biological Sciences  
*Comparative Microbial Genomics*  
Adviser: Kyle Mac Lea

Thomas Rhoades  
History  
*Crisis of the Volk: The Failure of the Weimar Republic*  
Adviser: John Cerullo

Audrey Rose  
Biological Sciences  
*Medical Mission to the Dominican Republic*  
Adviser: Kyle Mac Lea

Courtni Russo  
Biological Sciences  
*The Magicians of Massabesic*  
Adviser: Stephen Pugh

Courtni Russo  
Biological Sciences  
*Phenylketonuria People Eater*  
Adviser: Sarah Prescott

Mirian Samaan  
Genetics  
*Colorectal Cancer*  
Adviser: Sarah Prescott

Katie Sarette  
History  
*The Ongoing Battle over an Adequate Education: Why New Hampshire Is Failing Its Children*  
Adviser: John Cerullo

Donald Swinerton  
Biological Sciences  
*A New Perspective on Calorie Counts*  
Adviser: Stephen Pugh

Ryan Tanner  
Political Science  
*Budgeting in Londonderry, NH for a Heroin Rehab Center*  
Adviser: Stephen Pimpare

Michael Tay  
Biological Sciences  
*Optometry Practice*  
Adviser: Stephen Pugh

Amber Therrien  
Biological Sciences  
*An Investigation of Careers in the Pharmacy Field*  
Advisers: Patricia Halpin, Stephen Pugh

Kyle Vynorius  
Biological Sciences  
*Lifetime Multiple Mild Traumatic Brain Injuries Are Associated with Cognitive and Mood Symptoms in Young Healthy College Students*  
Adviser: Daniel Seichepine

Brittany Warren  
Biological Sciences  
*Genomics of Marfan Syndrome*  
Adviser: Sarah Prescott

Zachary Window  
Biological Sciences  
*Robust Job Shadow at the Elliot Hospital Laboratory*  
Adviser: Kyle Mac Lea

Zachary Window  
Biological Sciences  
*Functional Analysis of Soil Microbes Sequenced from Red and White Pine Habitat at the NH State Forest Nursery*  
Adviser: Kyle Mac Lea

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**UNH Manchester URC Cinema Arts Day**

**Thursday, April 21**  
11 a.m.–1 p.m.  
**Pandora Mill, 4th Floor**  
**88 Commercial St., Manchester**

The UNH Manchester Communication Arts program has a production track in which students complete introductory and advanced coursework 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.

Amanda Amato  
Communication Arts  
WPW  
Adviser: Anthony Tenczar

Becky Baker  
Biotechnology  
*Pathogenic Microbials: An Invasion of the Brain Eating Amoeba*  
Adviser: Patricia Halpin

Wayne Charrette  
Cole Riel  
Communication Arts  
Commuters  
Adviser: Anthony Tenczar

Gabriela Diaconu  
Biological Sciences  
*An Immigrant’s Perspective*  
Adviser: Anthony Tenczar

Andrew George  
Computer Information Systems  
F.I.R.S.T. Robotics Student Team Lead  
Adviser: Anthony Tenczar

Samantha Mackenzie  
Communication Arts  
*Meet Kyle*  
Adviser: Anthony Tenczar

Cole Riel  
Communication Arts  
*Stay Cheesy*  
Adviser: Anthony Tenczar
History Department Undergraduate Research Conference

Thursday, April 21
12:15–2 p.m.
Memorial Union Building

The History Department hosts several panels of undergraduate history majors who present research projects from their academic classes, research seminars, independent research projects, and Honors theses. The History Undergraduate Research Conference provides History students with the opportunity to share their work with fellow students, professors, and families.

MUB, Room 302

Moderator: Michael Leese
Charles Haycook
History
More than Ducks and Newts: Magic in 6th-Century Europe
Adviser: Jonathan Couser
Qizhen Xie
History and Classics
Ethnic Identity and Redefinition of the Galatians in the Hellenistic World
Adviser: Michael Leese

MUB, Room 302

Panel I B: Multiple Identities in the Middle East and South Asia
Moderator: Michael Leese
Emma Bivona
History
Persecution of the Baha’i Faith in Iran since the Islamic Revolution of 1979
Adviser: Ethel Wolper
Cameron Calato
History and Philosophy
Where the Hills and Plains Collide: A Look at Nepal’s Political Tension through Tharus in Chitwan
Adviser: Ethel Wolper
John O’Neill
History
Syria: A History of Resisting Revolution and a Failed State’s Future
Adviser: John Cerullo

MUB, Room 338

Panel II A: Interdisciplinary Approaches to Knowing and Sharing Our Past
Moderators: Lucy Salyer and Sarah Batterson

MUB, Room 340

Panel III A: Homosexual Identities in Europe: 1880s-1930s
Adviser and Moderator: Nicoletta Guilace

Steven Cowley
History
Edward Hitchcock: Geology and Religion in Early America
Adviser: Jan Golinski

Joseph Juknievich
History
Staging Conspiracy: A Close Examination of the Palmer Raids through the Lens of Documentary Theatre
Adviser: Lucy Salyer

Jeffrey Pearson
History and German
Ogunquit Leads the Way: Stewardship of the Beautiful Place by the Sea
Adviser: Cathy Frierson

Lauren Percy
History
The Lost of the Atlantic
Adviser: Cynthia Van Zandt

Sean Thoel
History and Russian
From TNT to Tallgrass: Hybrid Landscapes and the Re-Prairification of the Military-Industrial Complex
Adviser: W. Jeffrey Bolster

Shaina Maciejewski
International Affairs and Women’s Studies
From Pathology to Progress: Sexological Theories of Female Same-Sex Attraction in Victorian Era Britain

Crystal Napoli
Justice Studies and History
Magnus Hirschfeld: Ancestor of the Alliance

Amanda Perron
History
Barney’s Paris: How Lesbians Attempted to Craft a Unique Identity in 1920’s France
### Panel III B: Two Perspectives on the Civil War in the United States

**Adviser and Moderator:** J. William Harris

**Justin Gamache**  
History  
*Examining British Attitudes towards the American Civil War*

**Bonnie Simpson**  
History  
*Civil War Technology: Rifles and Ammo*

### The Naked Arts—Creativity Exposed!

**Act II**

**Thursday, April 21**  
12:40–2 p.m.  
Museum of Art  
Paul Creative Arts Center

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

**Elizabeth Girard**  
Theatre: Dance  
*The Developmental Director: The Process of Bringing New Plays to Life*  
Adviser: David Kaye

**Sara Martin**  
*Thoughts on Painting*  
Adviser: Craig Hood

**Alexandra Wing**  
Theatre  
*Where Do We Begin?*  
Adviser: Julee Holcombe

**Matthew Kasabian**  
Fine Arts  
*Contemplating the Landscape*  
Adviser: Jennifer Moses

**Jillian Swist**  
Fine Arts  
*Where Do We Begin?*  
Adviser: Julee Holcombe

### Parents Association Undergraduate Research Symposium

**Welcome Breakfast**

**Friday, April 22**  
9–9:30 a.m.  
Memorial Union Building  
Granite State Room

This informal gathering gives students, faculty, and attendees an opportunity to visit before the University-wide Parents Association Undergraduate Research Symposium. Opening remarks will be offered by the UNH Provost and Hamel Center for Undergraduate Research staff.

**Jordan Badger**  
Nutrition  
*The Relationship between Healthy Lifestyle Factors and Perceived Stress among College Students*  
Adviser: Jesse Morrell

**Cameron Bielski**  
English  
*Advertising in America*  
Adviser: Carla Cannizzaro

**Samantha Blais**  
Nursing  
*Exploring the Value of Obtaining Routine Gastric Residuals from Preterm Infants in the Neonatal Intensive Care Unit*  
Advisers: Gene Harkless, Susan Fetzer

**Samantha Brand**  
Occupational Therapy  
*Through My Eyes: The Effect on Family Life of Having a Sibling with Autism Spectrum Disorder as Experienced by Typically Developing Adolescents*  
Adviser: Lou Ann Griswold

**Stephanie Brewster**  
Nutrition  
*Which Best Predicts the Parameters of Metabolic Syndrome in College Students: Body Mass Index, Waist Circumference, or Body Composition?*  
Adviser: Jesse Morrell

**Leah Burke**  
Justice Studies and Psychology  
*Selfishness and Self-Mattering: What Do My Friends Think?*  
Adviser: Ellen Cohn

**Taylor Collins**  
Communication Sciences and Disorders and Spanish  
*A Thematic Analysis of Bilingual Speech-Language Pathologists in Southern New England*  
Adviser: Amy Plante

**Ashley Costa**  
Psychology and Family Studies  
*The Influence of Personal Intelligence on Academic Success among College Students*  
Advisers: John Mayer, Kateryna Sylaska
Kasey Cushing
Biochemistry, Molecular and Cellular Biology
The Effect of Gonadotrophin Releasing Hormone on the Proliferation Rate of a Melanoma Cell Line
Adviser: Paul Tsang

Tien Dang
Biomedical Science
Characterizing the Angiogenic Properties of Glioma U373 Cells
Adviser: Paul Tsang

Caitlin Doonan
Nursing
Exploring the Healthcare Experiences of LGBTQ+ College Students
Adviser: Joanne Samuels

Emily Dwyer
Nursing
The Impact of an Epilepsy Self-Management Program on Health Care Utilization
Adviser: Susan Fetzer

Matthew Geason
Political Science
National Identity in Taiwan
Adviser: Jennifer Brewer

Lindsey Hanna
Communication Sciences and Disorders
Influence of Technology on Development of Social Language
Adviser: Jeanne O’Sullivan

Caitlin Hanrahan
Occupational Therapy
Role Balance of Mothers with Children Receiving Early Intervention Services
Adviser: Kerryellen Vroman

Cody Hastings
Daniel Rowe
Sara Sturzo
Kinesiology
Hiring Interscholastic Head Coaches: Examining the Hiring Practices of Interscholastic Athletic Directors
Adviser: Heather Barber

Margarethe Hauschildt
Kinesiology
Effect of Progressive Resistance Training in Older Adults on Quality of Life and Affect
Adviser: Summer Cook

Justina Hiney
Biomedical Science
Elements That Cause Stress to a Captive Primate
Adviser: Leslie Curren

Cassandra Izzo
Biomedical Science
Allografts versus Autografts in Orthopedic Surgical Procedures
Adviser: Thomas Pistole

Julia Kahr
Psychology
Personality and Alcohol Use as Predictors of Attitudes towards Condoms and Sexual Health Knowledge
Adviser: Lindsey Rodriguez

Katherine Le
Nutrition
Perceived Stress and Alcohol Intake Comparison in First-Generation College Students and Their Peers
Adviser: Jesse Morrell

Elizabeth Lee
Kennedy Nickerson
Psychology
Passes on the Field, Free Passes off the Field: An Exploration of Sexual Assault Endorsement Analyzing Comments on Sports Media Outlets
Adviser: Katie Edwards

Sara Mantovani-Schuell
Brynn Pedrick
Zoology
The Effect of pH on Growth Rates and Activity Budgets of Ghost Shrimp (Palaemonetes paludosus)
Adviser: Leslie Curren

Keshav Nepal
Biomedical Science
Dexamethasone Effects on Vascular Endothelial Growth Factor Production by Ovarian Macrophages
Advisers: Thomas Foxall, David Townson

Valerie Nesom
Ecogastronomy and Nutrition
From Vision to Reality: Recipes for a New England Food Vision
Adviser: Joanne Burke

Maureen O’Brien
Occupational Therapy
Examination of the Effectiveness of a One-Week Camp on Social Interaction for Youth with an Autism Spectrum Disorder
Adviser: Lou Ann Griswold

Megan Peavey
Marine, Estuarine and Freshwater Biology
The Effect of Warming Temperatures on Competition between Two Invasive Species of Crab
Adviser: Leslie Curren

Jessica Pelletier
Nutrition
Examining the Relationship between Fruit and Vegetable Consumption, Diet Quality, and Metabolic Syndrome
Adviser: Jesse Morrell

Rebecca Pettis
Nursing
Describing the Experience of an Older Adult with Chronic Pain and the Use of a Therapeutic Music Intervention: A Case Study
Adviser: Joanne Samuels

Megan Sellarole
Ecogastronomy and Kinesiology
Effect of Self-Myofacial Release via Roller Massage on the Active Properties of the Plantarflexor Muscles
Adviser: Summer Cook

Laura Van Beaver
Neuroscience and Behavior
Effects of Nanoparticles for DNA Delivery into Animal, Plant, and Bacterial Cells
Advisers: Subhash Minocha, Fabio Vianello

Kelsi West
Health Management and Policy
Examining the NH Opioid Crisis through the Lens of the Three Levels of Prevention
Adviser: Ann-Marie Matteucci

Colleen White
Nursing
Buurtzorg Nurses in the Netherlands: A Mini-Ethnography of Care
Adviser: Gene Harkless
Parents Association Undergraduate Research Symposium

Oral Presentations, Session A

Friday, April 22
9:30–10:40 a.m.
Memorial Union Building

The Parents Association Undergraduate Research Symposium is a University-wide event showcasing students from a range of disciplines. Students present their research, scholarly, and creative projects in interactive poster sessions and oral presentation sessions.

MUB, Room 233

Clinical Identifications and Therapeutic Exercise Manipulations in Athletes

Moderator: Robert Kertzer

Rebecca Daniels
Kinesiology
Effect of Verbal Instructions on EMG during the Bench Press in Trained and Untrained Males
Adviser: Summer Cook

Frances Donahue
Athletic Training
Year Two Results of a Helmetless-Tackling Training Intervention in Football
Adviser: Erik Swartz

Emily Larson
Kinesiology
Identification and Prevalence of Atrial Fibrillation ECG Markers in Collegiate Cross-Country Skiers
Adviser: Tim Quinn

Nora Scanlan
Kinesiology
Effect of Proprioceptive Neuromuscular Facilitation and Static Stretching on Hip Flexion Angle
Adviser: Summer Cook

MUB, Room 332

Culture, Identity, and Politics in a Global Context

Adviser: Molly Wallace
Moderator: Catherine D’Auteuil

Cooper Hett
International Affairs and Civil Engineering
Berlin: A Preservation of Culture and Historical Architecture

Kendall Klein
International Affairs and Psychology
Cultural Identity in France

Anne Loftus
International Business and Economics
Commodification or Catharsis? The French Fashion Industry’s Interpretation of Political Events/Movements

Kevin Rivera
Spanish
Press One for English: The Globalization of the English Language and Second Language Education in Japan

Amy Simon
International Affairs and Philosophy
Life after Years of Solitude: Neoliberalism and Latin American Literature in Chile

MUB, Room 203

Feminism in Action–Session I

Adviser and Moderator: Faina Bukher

Kathleen Fitzgerald
Nutrition
SeaCoast Eat Local

Hollie Foster
Women’s Studies and Psychology and Russian
An Eye towards Inclusivity: Health Services’ Policies and Procedures
Lauren Garza
Sociology and Women’s Studies
Analysis of Gender and Humor

Anna Jones
Women’s Studies
Arts in Reach

Cecilia Martins
Political Science and Women’s Studies
Office of Minority Health and Refugee Affairs

Marisa Milone
English Literature and Women’s Studies
Navigating the Women’s Studies Program

Carolyn Riley
Communication and Women’s Studies
Black Lives Matter

MUB, Room 207

Information, Identity, and Presentation in Ancient Greece and Rome
Moderator: Scott Smith

Gabriel Hoffman
History and Classics
Upside Down and Inside Out: Information Management in the Age of the Roman Empire
Adviser: Susan Curry

Michael Mignanelli
Classics
Understanding Athenian Sentiments towards Public Speaking: A Study of Aristophanes’ Ecclesiazusae
Adviser: Harriet Fertik

Jack Vachon
Classics and History
Putting Greek Myth on the Map: The Pausanias Project
Adviser: Robert Smith

Qizhen Xie
History and Classics
Ethnic Identity and Redefinition of the Galatians in the Hellenistic World
Adviser: Michael Leese

MUB, Room 321

Media Studies Honors Papers
Moderator: Nora Draper

Ashlyn Daniel-Nuboer
Communication
Smart Machines or Smart Reporters? Artificial Intelligence and the Future of Journalism
Adviser: Kevin Healey

Emily Figiel
Communication
How Online Dating Platforms Encourage Self-Presentation and Shape Perceptions of Idealized Romantic Relationships
Adviser: Nora Draper

Hannah Lopez
Communication
Fashion Identity: An Analysis of Aerie’s Real Girl Campaign and the Distinction of Youth Representation
Adviser: Nora Draper

Madison Piacentini
Communication
The Commodification of Feminism in Online Publications
Adviser: Nora Draper

MUB, Room 338

Multidisciplinary Session I:
Culture, Philosophy, and Justice
Moderator: Jim Parsons

Ellis Codd
Anthropology
The Portrayal and Appropriation of Hawaiian Culture
Advisers: Eleanor Harrison-Buck, Alexandra Martin

Kristopher Dewey
Philosophy
Neuroscience and Philosophy
Adviser: Willem De Vries

Annemarie Guare
Political Science
Closing the Gaps: Using Holistic Legal Services to Ensure Access to Justice
Adviser: Mary Malone

Katherine Walden
Music Education
Exploring New Hampshire’s Celtic Music Tradition in the Elementary Music Classroom
Adviser: Rose Pruiksma

MUB, Room 340

Neuroscience and Behavior Session
Adviser: William Stine
Moderator: Myles Lynch

Nicholas Duggan
Neuroscience and Behavior
Signal Detection Analysis of a Three Alternative Forced Choice in a Stereoacuity Context

Basma El-Faramawi
Psychology
Bootstrapping Psychometric Functions in the Context of Motion-Induced Blindness

Megan Lusignan
Biology
Contrast Response Functions of On- and Off-Cells in Motion-Induced Blindness

MUB, Room 330

Perspectives on Contemporary Spain
Adviser: Molly Wallace
Moderator: Tom Haines

Sara Aybar
International Affairs and Economics
A Separate Peace: The Question of Economic Stability in the Case of Catalan Secession from Spain

Oriana Eason
Information Systems and Business Analytics
Changing Opinions of the Spanish Monarchy in a Modern World

Alvaro Maranon
International Affairs and Political Science
Catalonia? Catalunya? Europe’s (Almost) Newest Country

Elora Moeller
International Affairs and Spanish
The Rise of Grassroots Political Parties in Spain
**MUB, Room 334**

**Representations of Self and Other: Negotiating National Identity, Inclusion, and Exclusion**

Adviser: Molly Wallace  
Moderator: Beth Kilinc

Hannah Drake  
International Affairs and English  
*Constructing Islamic Identity in Spanish and American News Media*

Emily Ham  
International Affairs and Anthropology  
*Droit du Sang? The Relationship between a Conflicted National Identity and Modern Immigration in France*

Laurianne Posch  
International Affairs and German  
*Fluid as the Rhine or Stable as the Alps? German Identity/ies in Light of the European Refugee Crisis*

Madeline Warren  
Communication  
*The Marginalization of Minorities in the French Media*

**MUB, Room 237**

**Studies in Spanish Languages, Literatures and Cultures**

Moderator: Holly Cashman

Sabrina Baiguy  
Spanish  
*Performativity and Gender in Costa Rica*  
Adviser: Lori Hopkins

Maxwell Brown  
Spanish  
*A Case of Morphosyntactic Variation in Spanish Discourse*  
Adviser: Holly Cashman

Pedro Celaya  
Spanish  
*Exploration of Bilingual Language Practices in Mexican Spanish*  
Adviser: Holly Cashman

Marissa Giuliano  
Spanish  
*Performativity and Gender in Latin America*  
Adviser: Lori Hopkins

Angel Taveras  
Spanish  
*Lores in Context*  
Adviser: Scott Weintraub

Katherine Vaughn  
Spanish  
*Sociolectal Awareness & Study Abroad*  
Adviser: Holly Cashman

**MUB, Room 302**

**Rhetoric Honors Panel**

Moderator: Michael Jackson

Bettina Caspersen  
Marketing  
*Rhetorical Integration and the Cultural Projection at the Portsmouth African Burial Ground*  
Adviser: Lawrence Prelli

Emily Ciabattoni  
Communication  
*The Healing Powers of Dance Rhetoric*  
Adviser: Michael Jackson

Dorothy Long  
International Affairs and Communication  
*Food Identity: Is Food a Medium for Protest and Development?*  
Adviser: Michael Jackson

Anna Molinaro  
Communication  
*Photography: Preserving Fact or Fiction?*  
Adviser: Michael Jackson

**MUB, Room 336**

**The Causes and Consequences of Violence: Terrorism, Civil War, and Military Intervention/Aid**

Adviser: Molly Wallace  
Moderator: Maingi Solomon

Sara Carlson  
International Affairs and Finance  
*Reintegrating Former Child Soldiers into Society: Lessons from Sub-Saharan Africa*

Casey Harrigan  
International Affairs and Political Science  
*The Rise of Terrorist Activity in Belgium*

**Parents Association Undergraduate Research Symposium**

**Poster Presentations, Session B**

Friday, April 22  
10:50 a.m.–Noon  
Memorial Union Building  
Granite State Room

The Parents Association Undergraduate Research Symposium is a University-wide event showcasing students from a range of disciplines. Students present their research, scholarly, and creative projects in interactive poster sessions and oral presentation sessions.

Akshay Abraham  
Mechanical Engineering  
*Exploring Satellite Dynamics and Controls through Quadrotors*  
Advisers: May-Win Thein, Shuai Chen, Christopher Hashem

Tamir Blum  
Abubaker Elsheikh  
Adam Petit  
Jesus Tudela-Longas  
Mechanical Engineering  
*Russian Military Intervention in the Syrian Civil War*

Shaina Maciejewski  
International Affairs and Women’s Studies  
*‘Pura Vida’ No? U.S. Involvement in Latin America and Its Effects on the Drug Trade in Costa Rica*

Ariel Pueyo Encinas  
International Affairs and French and Political Science  
*Security and Minority Inclusion in France*
Stephanie Allaire  
Biology  
Kaleigh Erickson  
Neuroscience and Behavior  
Does Enclosure Size Drive Stereotypical Behavior in Felids?  
Adviser: Leslie Curren

Mariah Arral  
Chemical Engineering  
Biosensor for N^G-Hydroxy-L-Arginine  
Adviser: Jeffrey Halpern

Kiley Ashley  
Psychology  
Profile of an Addict: Associations between Personality Traits and Social Media Usage  
Adviser: Lindsey Rodriguez

Carolyn Babeu  
Communication Systems and Disorders  
The Preparedness of Speech-Language Pathologists to Meet Educational Challenges of Children with Cochlear Implants in New Hampshire Public Schools  
Adviser: Stephen Calculator

Christin Badylak-Reals  
Mechanical Engineering  
Adviser: Katie Marks

Elizabeth Barrett  
Political Science  
Due Process Point of Improvement – Child Abuse and Neglect Cases That End in Termination of Parental Rights – Strafford County, New Hampshire  
Adviser: Susan Siggelakis

Molly Belanger  
Madeleine DiIonno  
Community and Environmental Planning  
NH Citizen Planner: Discovering the Needs of Municipal Volunteers to Support Vibrant Communities  
Advisers: Molly Donovan, Christopher Keeley, Mary Robertson

Hannah Bergeron  
Occupational Therapy  
Occupational Justice and Work  
Occupations of Individuals with Disabilities: Emerging Role of Occupational Therapists  
Adviser: Vidyalakshmi Sundar

Hannah Betit  
Psychology  
A Profile of Entitlement  
Adviser: Lindsey Rodriguez

Casey Block  
Yvonne Cristy  
Amanda Horne  
Psychology  
Correlates of Perpetration of Sexual Violence among New England High School Students  
Advisers: Kelly Palmer, Stephanie Sessarego

Nicholas deDiego  
Genetics  
Determining Protein Phosphatase 2A C-Subunit Gene Interactions on Root Growth under Salt Stress  
Adviser: Estelle Hrabak

Nicholas Duggan  
Hanne Hansen  
Jaclyn Johnston  
Amanda LeBel  
Neuroscience and Behavior  
Basmah El-Faramawi  
Alison Meurer  
Psychology  
Megan Lusignan  
Biology  
Bootstrapping Sensitivity and Bias Measures in the Context of Stereo Acuity  
Adviser: William Stine

Basmah El-Faramawi  
Joyce Clem Pollack  
Anna Skedros  
Psychology  
Lauren Guetling  
Psychology and Women's Studies  
Barriers to Intervening in Instances of Sexual Assault and Relationship Abuse: A Look at Bystander Behaviors among High School Students  
Adviser: Robert Eckstein

Rachael Duda  
Family Studies  
Contributing Factors to Attitudes and Beliefs about Diversity  
Adviser: Jill Trumbell

Kathleen Gorman  
Sustainable Agriculture and Food Systems  
OASIS – Optimal Agriculture Skills Initiative for Students  
Adviser: Joanne Curran-Celentano

Melanie Green  
Ecogastronomy and Nutrition  
Impact of Health Behaviors on Academic Performance in College Students  
Adviser: Jesse Morrell

Karlyn Greene  
Justice Studies and Psychology  
Shannon Flynn  
Psychology and Mathematics  
Abby Leibowitz  
Psychology  
Lauren Guetling  
Psychology and Women’s Studies  
Barriers to Intervening in Instances of Sexual Assault and Relationship Abuse: A Look at Bystander Behaviors among High School Students  
Adviser: Robert Eckstein

Robert Hartwell  
Psychology  
Does Being Facebook Official Matter?  
Adviser: Lindsey Rodriguez

Crystal Hermawan  
Biomedical Science  
Effects of hypo-O-GlcNAcylation on Keratin 18 Filaments and Cytokine-Induced Apoptosis in SiHa Cervical Cancer Cells  
Advisers: Thomas Foxall, David Townson

Yongjiao Hu  
Sociology and Psychology  
International Students’ Social Networks and Academic Achievement  
Adviser: Michele Dillon

Summer Johnson  
Psychology  
Relationship Dissolution and Facebook Monitoring  
Adviser: Lindsey Rodriguez
Jeffrey King  
Justice Studies and Psychology  
Comparative Analytics of Sexual Assault Prevention Programming for Male Participants  
Adviser: Robert Eckstein  

Jacob Moss  
Geography  
Effects of Graffiti on the Community of Dover, New Hampshire  
Adviser: Jennifer Brewer  

Samantha Mullen  
Justice Studies and Psychology  
Parental Rights of Rapists  
Adviser: Katie Edwards  

Allison Onofrio  
Neuroscience and Behavior  
The Effect of the Earth’s Magnetic Field on the Resting Position of Canis familiaris  
Adviser: Leslie Curren  

Kishan Patel  
Biochemistry, Molecular and Cellular Biology and Applied Mathematics and Linguistics  
KDAMPS: Antibiotics of the Next Generation  
Adviser: Subhash Minocha  

Mia Pelletier  
Social Work  

Stephanie Trusty  
Neuroscience and Behavior and Music Performance Study  
To Tell or Not to Tell: How Revealing Abuse Impacts Wellbeing  
Adviser: Victoria Banyard  

Janine Perkins  
Saege Robinson  
Psychology  
The Negative Consequences of Victimization on College Campuses  
Adviser: Victoria Banyard  

Nicole Petersen  
Biochemistry, Molecular and Cellular Biology  
Characterizing Arabidopsis Sodium-Induced Root Skewing Mutants srs 4 and srs 10  
Adviser: Estelle Hrabak  

Alex Riccio  
Psychology  
Why We Stalk the Ones We Love: Relationship-Contingent Self-Esteem, Commitment Processes, and Facebook Stalking  
Adviser: Lindsey Rodriguez  

Chad Roberge  
Psychology  
Police Perceptions and Rule Rejections  
Adviser: Ellen Cohn  

Rebecca Robichaud  
Social Work  
Mindfulness and Chronic Pain  
Advisers: Kelsey Sobel and Judy Stevens  

Brittany Sampson  
Occupational Therapy  
Patient Outcomes following Hip and Knee Joint Replacement Surgery: Measurement of Social Support, Aspects of At-Home Environment, and Role of Local Community in Older Adults  
Adviser: Vidyalakshmi Sundar  

Stephanie Schmeltzer  
Nutrition  

Ryan Walsh  
Health Management and Policy  
The Impact of Practicing Gratitude  
Adviser: Kathleen Grace-Bishop  

Elizabeth Schweitzer  
Genetics  
A Tangled Web: The Challenge of Patient Autonomy in Medical Genetics  
Adviser: Erica Stelmach  

Chaya Sophon  
Anthropology  
The Future and Challenges of Counter-Mapping Indigenous Spaces  
Adviser: Alexandra Martin  

Yandan Wang  
Neuroscience and Behavior  
Ultrasonic Vocalization as a Predictor of Resilience to Intermittent Swim Stress-Induced Anxiety: An Investigation of Re-Exposure Effects  
Adviser: Robert Drugan  

Kristen White  
Psychology and Communication Sciences and Disorders  
How Personalized Lessons Enhance Learning  
Adviser: Michael Melville  

Katherine Wordell  
Justice Studies and History  
Multigenerational Child Sexual Abuse: An Evaluation of Cases from a Child Advocacy Center  
Adviser: Robert Eckstein  

MUB, Granite State Room  
Advanced Technical Writing  
Adviser: Molly Campbell  

Ross Baker  
Environmental Engineering  
What’s the Weather Like?  

Castine Bernardy  
Environmental Engineering  
Test Anxiety in College Students  

Hailee Flaherty  
Health Management and Policy  
How to Better Apply What Students Learn Inside and Outside the Classroom  

Justin Healy  
Communication  
Customer Service Tutorial Website Research  

Nathan McAree  
Communication  
Should Electronic Music Be Considered Genuine?  

Alex McGinn  
Environmental Engineering  
The Innovation and History of the Rotary Engine  

Richard Ouch  
Business and English  
Creating a Website about the Cambodian Genocide  

Emma Rayner  
Ecogastronomy and English  
Assessing the History and Recent Popularity of Yoga and Meditation
Parents Association Undergraduate Research Symposium

Oral Presentations, Session B

Friday, April 22
10:50 a.m.–Noon
Memorial Union Building

The Parents Association Undergraduate Research Symposium is a University-wide event showcasing students from a range of disciplines. Students present their research, scholarly, and creative projects in interactive poster sessions and oral presentation sessions.

MUB, Room 237

Bystander Intervention as a Tool for Social Justice
Adviser and Moderator: Jane Stapleton

Rebecca Barton
Communication and Women’s Studies
Responding to Racism on Campus

Lindsey Lussier
Social Work and Women’s Studies
Consumerism—An Active Bystander
When Friends/Family Are Watching/Listening to Oppressive Media

Casey O’Dea
Women’s Studies
I’ll Go with You: How to Be an Ally to the Transgender Community

Yamilex Bencosme
Spanish and Women’s Studies
Sexual Assault on College Campuses - I

Desiree Tribbett
Women’s Studies
Sexual Assault on College Campuses - II

MUB, Room 340

China Challenges the World
Adviser: Lawrence Reardon
Moderator: Samantha Friedman

Andrew Abrams
History
Mao: Theory and Practice

Matthew Geason
Political Science
Why Chinese Reunification Has Failed to Date

Abbygale Martinen
Political Science and Kinesiology
An Expensive Activity: Why Do States Spend So Much Money on Sports?

Drew Sunderlin
Political Science
The Rise of Coastal China

MUB, Room 203

Feminism in Action—Session II
Adviser and Moderator: Faina Bukher

Olivia Dean
Communication
Women’s Studies Recruitment and Outreach

Hollie Foster
Women’s Studies and Psychology
and Russian
Virgin Mary, Become a Feminist

Giselle Hart
Women’s Studies
Women’s Empowerment—Fierce and Fabulous

Shaina Maciejewski
International Affairs and Women’s Studies
The Effects of Capitalism on Women’s Economic Independence

MUB, Room 207

Framing Difference in Superhero Comics and Graphic Narratives
Adviser and Moderator: Monica Chiu

Olivia Bochicchio
English Teaching
Photographs: The Incomplete Picture

Elizabeth Haas
English/Journalism
Balancing Cultures Like a Superhero: Integration in Marvel Comics

Rachelle McKeown
Ecogastronomy and English
Ms. Marvel: Empowerment in Race and Gender

Tiana Salsman
English
Otherness in Maus I & II

MUB, Room 158

Governance: Questions of Legitimacy and Stability
Adviser: Molly Wallace
Moderator: Claire Malarte-Feldman

Taryn Flint
International Affairs and French
Campaign Financing and Voter Confidence in Political Systems

Kelsey-Anne LeBlanc
International Affairs and Political Science
Morocco and Political Islam: Why the Kingdom Is a Model of Controlled Opposition

Kyle McCrory
International Affairs and Russian
Meet the New Boss, Same as the Old Boss: The Rise of Putin’s Regime
Stefanie Orn  
International Affairs and Spanish  
The Context for Political Corruption in Contemporary Spain

Liam Spinicci  
International Affairs and Russian  
Authoritarianism in Russia: Failure to Change or a Modified Democracy?

MUB, Room 336  
Human Development and Sustainability: Health, Food Security, and Natural Resources

Adviser: Molly Wallace  
Moderator: Jennifer Purrenhage

Jacqueline Gilbert  
International Affairs and Anthropology  
Water Scarcity, Politics, and Resource Management in Bolivia

Emily Gold  
International Affairs and Political Science  
Sex, Drugs, and Risk 'n' Roll: A Review of Harm Reduction Strategies for the Prevention of HIV/AIDS in South Africa

Siddharth Nigam  
Mechanical Engineering and Mechanical Engineering  

Lyndsay Ulin  
International Affairs and German  
GMOs in Germany

MUB, Theater I  
Human Rights: Responding to State Policies and Repression

Adviser: Molly Wallace  
Moderator: Jeannie Sowers

Kelsey Douvillle  
International Affairs and Russian  
The Decade of Roma Inclusion: Lessons from a Multinational Minority Integration Initiative

Keeley F French  
International Affairs and Health Management and Policy  
Overcoming Minority Repression in Francoist Spain

Dorothy Long  
International Affairs and Communication  
Reproductive Rights in Argentina

Ian MacKay  
International Affairs and German  
Official U.S. Perspectives on Government Repression: Migration as a Political Strategy in Xinjiang and the West Bank

Brittany Mailhot  
International Affairs and Spanish  
Transitional Justice in Chile: Finding Justice for Victims after the Death of Augusto Pinochet

MUB, Room 338  
Immigrants and Refugees in Europe: Experiences, Responses, and Policies

Adviser: Molly Wallace  
Moderator: Gregg Orifici

Francesca Bragan  
Political Science  
Post W W2 Germany and the Syrian Refugee Crisis

Jordan Lachance  
International Affairs and French  
Plusieurs Versions de la Même Histoire: Explanations for the Differences between How Immigrants Experience the Integration Process in France

Kyle Leafe  
International Affairs and German  
Syrian Refugees and the Political Dilemma in Germany

Jacob Lehoux  
International Affairs and Economics  
The Rise of the National Front: The Far-Right Wing and Its Implications on France and Europe

MUB, Room 332  
Multidisciplinary Session II: Studies in Science, Health, and Engineering

Moderator: Kate Gaudet

Lyndsay Canwell  
Biomedical Science  
Tumor Necrosis Factor (TNF) Expression in Bovine Granulosa Cells  
Adviser: Thomas Foxall

Joseph Collins  
Mechanical Engineering  
Static and Dynamic Response of Seed Coats and Biomimetic 3D Printed Materials  
Adviser: Yaning Li

Hayley Robertson  
Neuroscience and Behavior  
Temporary Thalamic Inactivation: Effects on Signal-to-Noise Ratios and Tuning Properties of Rat Prefrontal Neurons  
Adviser: Robert Mair

Charlotte Thompson  
Sociology  
Perceptions of Beach Water Quality in York, Maine  
Adviser: Thomas Safford

MUB, Room 334  
Multidisciplinary Session III: Studies in Health and Human Development

Moderator: Jesse Morrell

Adelaide Murray  
Health Management and Policy  
Student Knowledge, Attitude, and Beliefs for Targeted Influenza Prevention Efforts at the University of New Hampshire  
Adviser: Rosemary Caron
Michael Sales
Psychology and German
The Effect of Trained Mother-Child Conversation on Science Learning in Kindergarten Age Children
Adviser: Michelle Leichtman

Rebecca Smeltzer
Nutrition
Pasteurized Donor Human Milk Programs in Level One and Two Hospital Nurseries in the Northeast United States
Adviser: Gale Carey

MUB, Room 321
Post-Colonial and Post-Cold War International Relations and Influence
Adviser: Molly Wallace
Moderator: Tom Safford

Valery Arnoux
International Affairs and Spanish
How Did Spain Lose Its Influence in Latin America?

Nicole Beaudet
International Affairs and Political Science
Cold War 2.0: Russia’s Stance on Nuclear Proliferation in the 21st Century

Alexa Gozdiff
International Affairs and Community and Environmental Planning
Anti-Americanism in Argentina: The Roots and Causes

Brittany Marien
International Affairs and Political Science
The Nuclear Dragon: From Reluctance to Adherence, China’s Changing Attitude toward the Nonproliferation Regime

MUB, Room 333
Sensitive Topics in Communication and Psychology: Examining Race, Intimacy, and Anxiety
Moderator: Danielle Pilet-Shore

Jenna Clarkson
Psychology
Guys and Dolls and All of Their Falls: The Effects of Gender on Stressful Life Events and Negative Behavior
Adviser: Ellen Cohn

Jessica Cocozziello
Communication
A Tale of Two Intimacies: Some Systematic Differences between How ‘Family’ and ‘Friends’ Interactively Constitute Their Social Relationships
Adviser: Danielle Pilet-Shore

Megan Kelleher
Communication
An Analysis on the Intersection of Race and Media in Criminal Cases
Adviser: Joseph Terry

Anna Tumber
Communication
Learn How Yoga Calms Anxiety Holistically
Adviser: Michael Jackson

MUB, Room 302
Rhetoric of Science
Moderator: Michael Jackson

Ellen Ballentine
Communication
‘Like’ as a Discourse Marker
Adviser: Edward Reynolds

Devon Clarke
Communication
The Rhetorical Analysis of the Breastfeeding Debate
Adviser: Michael Jackson

Dana Gingras
Communication and Women’s Studies
Theories for Theories: A Rhetorical Analysis of Nancy Krieger’s “Theories for Social Epidemiology in the 21st Century: An Ecosocial Perspective”
Adviser: Michael Jackson

Steven Quigua
Communication
Revolutionaries vs. The Old Regime
Adviser: Michael Jackson

MUB, Room 304
Top Commentary Papers
Moderator: Kevin Healey

Sean Fleese
Communication
Body Cameras on Law Enforcement
Adviser: Kevin Healey

Christopher Kuist
Communication
The Photograph as Montage
Adviser: Michael Jackson

Carolyn Riley
Communication and Women’s Studies
Networked Movements & Social Change: The Success of #BlackLivesMatter
Adviser: Michael Soha

Jenna Ward
Communication
An Ethical Dilemma in Media: ‘A Rape on Campus’
Adviser: Mark Hungerford

MUB, Room 330
U.S. Foreign Policy: A Case Study of ISIL/ISIS
Adviser and Moderator: Lionel Ingram

Kelsey Crowley
Political Science

Justin Curley
Political Science

Alvaro Maranon
International Affairs and Political Science

Kyle Reilly
Political Science
Parents Association Undergraduate Research Symposium

Oral Presentations, Session C

Friday, April 22
12:15 - 1:25 pm
Memorial Union Building

The Parents Association Undergraduate Research Symposium is a University-wide event showcasing students from a range of disciplines. Students present their research, scholarly, and creative projects in interactive poster sessions and oral presentation sessions.

MUB, Room 237

**Bystander Intervention as a Tool for Social Justice / Leadership for Social Change**

Adviser and Moderator: Jane Stapleton

Kelly DiNapoli
Hospitality Management
*Responding to Environmental Injustice*

Chelsea Evankow
Biology and Women’s Studies
*Bystander Actions - III*

Anna Jones
Women’s Studies
*Bystander Actions - IV*

Renee Loeffel
Zoology
*Learning as a Way of Leading - I*

Carolyn Riley
Communication and Women’s Studies
*Learning as a Way of Leading - II*

Abby Geremia
Women’s Studies
*Learning as a Way of Leading - III*

MUB, Room 330

**ISIL/ISIS and Syria**

Moderator: Lionel Ingram

John O’Neill
History
*Syria: A History of Resisting Revolution and a Failed State’s Future*
Adviser: John Cerullo

James Driscoll
Andrea Kabala
Political Science
*Lillian Radack*
Political Science and English/Journalism

Emily Vulgamore
Biology
*U.S. Foreign Policy: A Case Study of ISIL/ISIS*
Adviser: Lionel Ingram

MUB, Room 332

**Multidisciplinary Session IV: Performance, Ritual, and Conflict**

Moderator: Kate Gaudet

Cameron Calato
History and Philosophy
*Where the Hills and Plains Collide: A Look at Nepal’s Political Tension through Tharus in Chitwan*
Adviser: Ethel Wolper

Keli Minelli
Music Performance Study
*Bernard Herrmann’s Wuthering Heights*
Adviser: Rose Pruiksma

Madison Pierce
English Teaching
*Finding William Lloyd Garrison in The Liberator: Personal Views, Public Venue*
Adviser: Monica Chiu

Victoria Rudis
English Teaching
*Ego and Religious Ritual*
Adviser: Charli Valdez

Hannah Whitcomb
Anthropology
*Shopping as Ritual: An Anthropological Analysis of Consumption*
Adviser: Robin Sheriff

MUB, Room 334

**Multidisciplinary Session V: Influences on Behavior and Experience**

Moderator: Jesse Morrell

Jessica Choiniere
Environmental Engineering
*How to Progress through Life Successfully*
Adviser: Molly Campbell

Julie Clancy
Psychology
*The Impact of Emotion Regulation on Inhibitory Control and Its Neural Correlates*
Adviser: Robert Ross

Alana Davidson
Nutrition
*Assessing Hunger Issues among University of New Hampshire Students*
Adviser: Jesse Morrell

Allison Onofrio
Neuroscience and Behavior
*The Effect of the Earth’s Magnetic Field on the Resting Position of Canis familiaris*
Adviser: Leslie Curren

Thomas Reese
Psychology
*Confidant Interactions Affecting Adolescent Views of Authority and RVB*
Adviser: Ellen Cohn

Kate Santoso
Psychology and Health Management and Policy
*Prescription Opioids and Heroin: Perceptions, Attitudes, and Beliefs among College Students*
Adviser: Rosemary Caron

MUB, Room 302

**Rhetoric of the Photograph**

Moderator: Michael Jackson

Olivia Cimeno
Communication
*Liberation Photography: A Restoration of Faith*
Adviser: Michael Jackson

2016 UNDERGRADUATE RESEARCH CONFERENCE • 31
UNH Manchester URC Engineering Technology Day

Project Presentations

Friday, April 22
9 a.m.–3 p.m.
Pandora Mill, 2nd Floor
88 Commercial St., Manchester

The UNH Manchester 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.

Christopher Apkarian
Tyler London
Brandon Therrien
Mechanical Engineering Technology
The Propane Advantage
Adviser: Sean Tavares

Zachery Boynton
Electrical Engineering Technology
Server Load Balancing in a Speech Recognition System
Adviser: Michael Jonas

Garrett Bryant
Electrical Engineering Technology
Order Upload Service
Adviser: Christopher LeBlanc

Curtis Button
Electrical Engineering Technology
RGB Mechanical Television
Adviser: Christopher LeBlanc

Alexander Chretien
Mechanical Engineering Technology
Burner Component Design/Assembly Improvement
Adviser: Sean Tavares

Adam Connolly
Electrical Engineering Technology
Power Control Lockout System
Adviser: Christopher LeBlanc

Kyle Cormier
Electrical Engineering Technology
Layout Design with TI
Adviser: Christopher LeBlanc

Ed Daniels
Stephen Koble
Samuel Workman
Electrical Engineering Technology
UNH 150th Celebration Blimp Project
Advisers: Christopher LeBlanc, Sean Tavares

Eric Demers
Mechanical Engineering Technology
Volumetric Flow Rate Database
Adviser: Sean Tavares

Matthew Dimock
Mechanical Engineering Technology
ASME Pressure Vessel Design Guide
Adviser: Sean Tavares

Seth Eaves
Mechanical Engineering Technology
Velcro Mesh Edge
Adviser: Sean Tavares

Michael Elliott
Mechanical Engineering Technology
Testing Experiments to Enhance Secondary Education Engineering Practices
Advisers: Mihaela Sabin, Sean Tavares

Kevin Ferdinand
Mechanical Engineering Technology
Noise Reduction and Rewiring of a UAV Dynamometer Rig
Adviser: Sean Tavares

Toby Fontaine
Mechanical Engineering Technology
Media Belt Installation Process Improvement
Adviser: Gregg King

Jacob Gallant
Mechanical Engineering Technology
Gas Compliant Electrical Feedthrough System: Check Valve Concept
Adviser: Sean Tavares

Michael Huber
Electrical Engineering Technology
UNH Formula SAE Dashboard Data Display
Adviser: Christopher LeBlanc

Christopher Apkarian
Tyler London
Brandon Therrien
Mechanical Engineering Technology
The Propane Advantage
Adviser: Sean Tavares

Zachery Boynton
Electrical Engineering Technology
Server Load Balancing in a Speech Recognition System
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Mechanical Engineering Technology
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Adviser: Sean Tavares

Michael Huber
Electrical Engineering Technology
UNH Formula SAE Dashboard Data Display
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Peter T. Paul College of Business and Economics Undergraduate Research Conference

Poster Presentations
Friday, April 22
9 a.m.–3 p.m.
Peter T. Paul College Building

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

Paul College Courtyard
9-10:30 a.m.
EcoGastronomy Poster Presentations
Moderator: Daniel Winans
Grace Berkman
Christa Fagone
Ecogastronomy and Hospitality Management
Wine Not? Sustainable Wine Bar Business Proposal
Adviser: Daniel Innis

Briana Bruinooge
Megan Sellarole
Ecogastronomy and Kinesiology
My Herbal University
Adviser: Joanne Curran-Celentano

Zachary Casali
Ecogastronomy and Management
Antonio Garcia
Ecogastronomy and Sustainable Agriculture and Food Systems
Growing a Greener Grass: Sustainable Cultivation of Medical Marijuana
Adviser: Daniel Winans

Danielle Gervais
Ecogastronomy and Sustainable Agriculture and Food Systems
Fresh from Our Farm Catering: A Business Proposal for a Farm and Catering Company
Advisers: William Hastings, Daniel Remar

Melanie Green
Ecogastronomy and Nutrition
How to Succeed at UNH without Really Trying: A First-Year Wellness Guide
Advisers: Maggie Begis, Daniel Winans

Alexander Harling
Ecogastronomy and Economics
Baja's Catch: Fishing for a Cleaner Environment and Consistent Yield
Advisers: Colin Sutton, Daniel Winans

Anna Jones
Women’s Studies
Fed Up: Finding the Most Effective Ways to Fight Hunger in Elementary School Students
Advisers: Larry Brickner-Wood, Daniel Winans

Alexis Larabee
Ecogastronomy and Hospitality Management
Sensory Cinema: Enhancing the Viewer Experience through Film & Food Pairing
Advisers: Daniel Remar

Matthew Larson
Ecogastronomy and Marine, Estuarine and Freshwater Biology
Promoting Seaweed as a Fresh Part of New England’s Food Identity
Advisers: Arthur Mathieson, Daniel Winans

Amber Litterer
Ecogastronomy and Zoology
Hungry Hungry Homarus: Bait Preference in the American Lobster
Advisers: Winsor Watson, Daniel Winans

Diana Lo
Ecogastronomy and Hospitality Management
The New American Dream: Moving from McMansions to Tiny Houses
Advisers: Robert Henry, Daniel Winans

Refik Karic
Computer Engineering Technology
OTDR Controller
Adviser: Christopher LeBlanc

Eric Leighton
Mechanical Engineering Technology
Water Rocket Launcher
Adviser: Sean Tavares

Harmony McCall
Mechanical Engineering Technology
Crash Demonstration and the Effects of Delayed Response
Adviser: Sean Tavares

Eric Pepin
Mechanical Engineering Technology
Self-Aligning Table
Adviser: Sean Tavares

Robert Salisbury
Mechanical Engineering Technology
Formula SAE 2015 Participant
Adviser: Sean Tavares

Jesse Schraufnagel
Mechanical Engineering Technology
Efficient 5-Axis Grinding of Airfoil Roots
Adviser: Sean Tavares

Michael St. Jean
Electrical Engineering Technology
Low Cost Power Supply Module
Adviser: Christopher LeBlanc

Donald Wallis
Mechanical Engineering Technology
Rotary Vibration Analysis Trainer
Adviser: Sean Tavares

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

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Ecogastronomy and Hospitality Management
The New American Dream: Moving from McMansions to Tiny Houses
Advisers: Robert Henry, Daniel Winans
Kelsey MacDonald  
Ecogastronomy and Nutrition  
Culinary Assessment of Sweet Potato Varieties  
Advisers: Rebecca Sideman, Daniel Winans

Georgina Martin  
Ecogastronomy and Hospitality Management  
Restaurant Possible: Finding a Recipe for Success  
Adviser: Daniel Innis

Emma Rayner  
Ecogastronomy and English  
The UNH Challenge: Getting Students to Halt the Salt and Beat the Sweet  
Adviser: Ronald Boucher

Campbell Reiff  
Ecogastronomy and Nutrition  
The Hidden Truth: How Gluten Sensitivity Could Be Affecting Your Health  
Adviser: Gale Carey

Marlee Scott  
Ecogastronomy and Recreation Management and Policy  
Chef It Up! An Affordable Farm to Fork Afterschool Program  
Advisers: Robert Barcelona, Daniel Winans

Catherine Talbot  
Ecogastronomy and Communication Sciences and Disorders  
The Missing Piece: Discovering the Link between Nutrition and Autism  
Advisers: Rae Sonnenmeier, Daniel Winans

Hannah Wolf  
Ecogastronomy and Nutrition  
The Local Biscuit: A Website Dedicated to Bringing Awareness to Local Food  
Advisers: Mary Schriefer, Daniel Winans

Austin Bauer  
Economics  
R&D Spending and Venture Capitalism

Andrew Beaulieu  
Economics  
Economic Impacts of the Highway System

Thomas Boivin  
Economics  
Body Mass Index vs. Income

Justin Cawley  
Economics  
Unemployment Duration: Causes and Consequences

Cristina DiFabio  
Economics  
Wealth Inequality

Sarah Harmon  
Economics  
Risk Aversion of Men vs. Women in Economic Decision-Making

Sean Hogan  
Economics  
Firm Size and Economic Growth

Maura Kalil  
Economics  
Macroeconomic Effects of Oil Price Fluctuations

Eric Kelly  
Economics  
Do Private Military Companies Cause Military Conflicts to Be More Intense?

Jenna Knox  
Economics  
Policy Issues of Medicare in a Changing Medical World

Jacob Lehoux  
Economics  
International Affairs and Economics Charter Schools: Are They Effective?

Brandon Lyman  
Economics  
College Tuition vs. Future Salary

Nicholas Natella  
Economics  
Estimating the Effects of High-Value Players on the Success in the NBA

Joseph Sameski  
Economics  
Internet Economy: Past, Present, Future

Connor Sullivan  
Economics  
An Economic Analysis of the Streaming Media Industry

Brandon Swift  
Economics  
The Economic Impact of Mobile Technology

Andrew Taylor  
Economics  
Why Recycling? Economic Issue or Moral Issue?

Craig Tyer  
Economics  
Economic Costs of the Opiate Epidemic in New Hampshire

Dongjie Wang  
Economics  
How Effective Is the Expansionary Monetary Policy in Fighting against Recession?

Michael Zehngut  
Economics  
Impact of Refugees on European Economies

Paul College Courtyard  
11 a.m.–12:30 p.m.

Economics Poster Presentations

Adviser and Moderator: Robert Mohr

Sara Aybar  
International Affairs and Economics  
Immigration Reform and the Refugee Crisis: The Benefit or Burden of Nontraditional Immigrants

Graham Ayres  
Economics  
Measuring Value: An Economic Examination of New Hampshire's Food Cooperatives

Richard Chamberland  
Economics  
From Trash to Treatment
Michael Darisse  
Economics  
*New Hampshire and the Regional Greenhouse Gas Initiative (Cap and Trade vs. Pollution Tax)*  

Adam Day  
Economics  
*Economics of End of Life Care*  

Abigail Hahr  
Economics  
*Analysis of Financial Crisis, Formation and Bust of Housing Bubble, and Involvement of Asymmetric Information*  

Christian Jensen  
Economics  
*Statistical Arbitrage: Machine Learning & Performance Optimization*  

Kaitlyn Kelley  
Economics  
*The New Hampshire Climate Action Plan*  

Robert Lowe  
Economics  
*The Housing Market Collapse*  

Jeremy Lowell  
Economics and Spanish  
*Uber vs Taxi Companies*  

Sean Mitchell  
Economics and Political Science  
*The High Price of Higher Education*  

Zachary Mulkern  
Economics  
*WTI-BRENT Spread*  

Andrea Nash  
Economics and Entrepreneurial Studies  
*Adverse Effects of Solid & Hazardous Waste*  

Erika Sweet  
Economics  
*Solar Panel Policy*  

Ekaterina Tsareva  
Economics  
*Heroine Epidemic*  

William Vetrone  
Economics  
*An Economic Analysis of the Recent Heroin and Opioid Epidemic in New Hampshire*  

Zichun Zhang  
Economics  
*Natural Gas Effect on Electricity Price in New England Region*  

Yanmin Zheng  
Economics  
*The Local Food Current Situation in New England Area*  

Emma Carleton  
Information Systems and Business Analytics and Management  

Haley Smith  
Paige Tuller  
David Veilleux  
Peter Yarosewicz  
*Information Systems and Business Analytics*  

*Working Out the Crowds at the Gym*  
Adviser: Roger Grinde  

Katelin Collins  
Accounting  
*Balancing Act: Trends and Current Issues of Retaining and Promoting Women in Auditing*  
Adviser: John Hasseldine  

Jacob Daniels  
Grace Patton  
Keegan Twomey  
John Wynters  
Kaleigh Zukowski  
*Information Systems and Business Analytics*  

*UNH Parking Services Analysis*  
Adviser: Roger Grinde  

Angela Deng  
Finance  
*Determinants and Differences of Profitability of Domestic and Foreign Commercial Banks*  
Adviser: Wenjuan Xie  

Oriana Eason  
Information Systems and Business Analytics  
*Factors Influencing Project Success in Information Systems Development Methodologies Transitions: An Analysis of Waterfall to Iterative Methodologies*  
Adviser: Kholekile Gwebu  

Oriana Eason  
Julia Hird  
Yanxi Lu  
*Information Systems and Business Analytics*  

*Understanding Housing Dynamics at UNH*  
Adviser: Roger Grinde
Riley Ellis  
Kayla Kennedy  
Margaret McVeigh  
Timothy Prior  
Christopher Wingate  
Information Systems and Business Analytics  
The Wildcat Fueling Station  
Adviser: Roger Grinde

Julia Hopkins  
Marketing  
The Effectiveness, Efficiency, and Ethics of Marketing Analytics  
Adviser: M. Billur Akdeniz

Jeffrey Lertora  
Marketing  
Healthy Eating Influences: Every Good Decision Starts with Good Intentions  
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Brendan Mantell  
Kien Tran  
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Red River Computer’s Growth Strategy  
Advisers: Kholekile Gwebu, Justin Millette

Christopher Morelli  
Accounting and Information Systems and Business Analytics  
An Effectiveness Review of Section 404 of the Sarbanes Oxley Act (2002)  
Adviser: John Hasseldine

Erin Mullaney  
Marketing  
Assessing the Business-to-Business Model of Destination Marketing Organizations in New England  
Adviser: M. Billur Akdeniz

Ian Newcombe  
Information Systems and Business Analytics and Finance  
Mainframe Relevance in Modern IT  
Adviser: Kholekile Gwebu

Jacob Pentheny  
Marketing  
The Influence of Movie Reviews on Consumers  
Adviser: Bruce Pfeiffer

Brendan Phelan  
Marketing  
Motivational Factors for Playing Fantasy Sports  
Adviser: Matthew O’Hern

Harrison Quast  
Entrepreneurial Studies  
The Personality of Success: A Study of Desirable Personality Traits of Entrepreneurs  
Adviser: Jeffrey Sohl

Valeriu Tomescu  
Finance  
The Economic Impact of Immigration on the Output-Mix: Results from Hurricane Mitch  
Advisers: Karen Conway, Bruce Elmslie

Valeriu Tomescu  
Finance  
Natural Disasters and the Effectiveness of Foreign Aid on Economic Development  
Adviser: Mihail Miletkov

Sarah Tubbs  
Marketing and Management  
Branding a Business School: The Paul College Experience  
Adviser: Diane Devine

Paul College Great Hall  
9-10:30 a.m.  
The Macroeconomics of National Economies around the World  
Adviser and Moderator: James Wible

Emmanuel Adeeko  
Applied Mathematics  
A Macroeconomic Analysis of Switzerland

Antoni Athanasopoulos  
Accounting and Economics  
The Tragic Downfall of Greece in Recent Years

Paige Benik  
Marketing  
A Macroeconomic Analysis of Brazil

Zachary Bosen  
Economics and Mechanical Engineering  
A Macroeconomic Analysis of France

Ryan Buckley  
Economics  
A Macroeconomic Analysis of Sweden

Katherine Freitas  
Applied Mathematics  
Portugal: Still Fighting an Uphill Battle after the Financial Crisis of 2008

Olivia Goodale  
Social Work  
A Macroeconomic Analysis of Uganda: A Developing Nation

Erik Hauck  
International Business and Economics and Management  
A Macroeconomic Analysis of Haiti

Andrew Ibechem  
Economics  
A Macroeconomic Analysis of China

Colleen Lynch  
International Business and Economics  
A Macroeconomic Analysis of Canada

Ryan Malfait  
Finance  
Analysis of Monetary Policy and Institutional Structure in Norway

Christopher McDade  
Environmental and Resource Economics  
A Macroeconomic Analysis of Singapore

Jacob Mechaber  
Economics  
A Macroeconomic Analysis of Mexico

Sarah Michaud  
Management  
A Macroeconomic Analysis of Israel

Sean Mitchell  
Economics and Political Science  
The United Kingdom: A Macroeconomic Analysis of a European Outlier

Javen Morse  
Undeclared  
A Macroeconomic Analysis of Panama

Anh Phuoc Thien Nguyen  
Economics  
Japan Since 2007: Rising Sun and Shrinking Economy
Oral Presentations

Friday, April 22
9 a.m.–3 p.m.
Paul College Building

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

Paul College 165

Atkins Investment Group

Moderators: Stephen Ciccone & Ahmad Etebari

Rebecca Atkinson
Accounting and Marketing

Nicholas Bagley
Courtney Debus
Finn Johnson
Bradford Kelley
Dongjie Wang
Economics

Austin Bauer
Economics and Math

Nicholas Bouchard
Jonathan Harrison
Paul Valhouli
Finance and Accounting

William Cavanaugh
Zachery Fitzgerald
Galen Hand
Justin Lappin
Aaron LeLacheur
Jason Michonski
Cullen Moore
Richard Roy
John Schwartz
Jon Tamposi
Chandler Wishart
Finance

Tyler Cornellier
Charles Demarco
Jacob Gomez
Nicholas Muldrow
Finance and Information Systems and Business Analytics

Alexander Febonio
Finance and Accounting

Patrick Hammond
Eric Murray
Accounting and Finance

Jonathan Kiskinis
Finance and Geography

Garrett Malagodi
Computer Engineering

Taylor McDonald
Psychology

Nicholas Savoia
Business Administration

Caroline Schmidt
Finance and Management

Jessica Selensky
Accounting

Connor Whelan
Applied Mathematics

Atkins Investment Group

Advisers: Stephen Ciccone, Ahmad Etebari, Alexys Gilcreast, Connor Leppzer, Kelsey Ulaskiewicz
Paul College 125

Marketing Workshop 1A
Moderator: Peter Masucci

Robert Allard
Dean Calcagno
Sean Kenneally
Laura McHoul
Brendan Phelan
Andrew Robertson
Tamlyn Smith
Marketing

Vivian King
Marketing and Accounting

Andrew McAuliffe
Marketing and Management

U.S. Environmental Protection Agency: Development of Marketing Programs to Raise the Level of Awareness of the 'Safer Choice' Product Label and Encourage More Consumer Selection of Labeled Products
Advisers: Tiffany Keenan, Peter Masucci

Kelsey Aucoin
Allison Brown
Daniel Correale
Kassandra Coulombe
Nicole Gagnon
Maxim Gaudreault
David Rogers
Christopher Turner
Marketing

Timothy Curran
Marketing and Entrepreneurial Studies

Rebecca Hall
William Staebler
Marketing and Management

180 Blue Restaurant: Research and Design of a Marketing Campaign to Promote This On-Campus Restaurant and the Culinary Arts Program at the Thompson School of Applied Sciences
Adviser: Peter Masucci

John Bethoney
Jacob Pentheny
Olivia Scala
Audrey VanZandt
Marketing

Daniel Cone
Thomas Spohn
Marketing and Finance

Justin Diercks
Rose Gilday
Katherine Lindberg
Devon See
Marketing and Management

Research and Development of a Marketing Campaign for the Carsey School to Promote the New Master in Public Policy Degree Program
Adviser: Peter Masucci

Ryan Dempsey
Cameron Tufts
Ross Weiler
Marketing

Christopher King
Taylor McPherson
Marketing and Entrepreneurial Studies

Christopher McCafferty
Sean McGartland
Marketing and Management

Samuel Quirk
Marketing and Finance

Athena Rondeau
Marketing and Information Systems and Business Analytics

Campus Recreation: Development of Marketing Programs to Support the Opening of the Expanded Hamel Recreation Center and the New Swimming Pool
Adviser: Cailey Griffin, Peter Masucci

Paul College 135

Marketing Workshop 1B
Moderator: Peter Masucci

Natasha Borges
Nicholas Fiel
Lixing Huang
Edward McDonough
Erin Mullaney
Steven Ricciardone
Kaitlyn Shaw
Leo Sutera
Marketing

Amanda Federico
Marketing and Management

Joseph Russell
Marketing and Entrepreneurial Studies

Patrick Tripodi
Marketing and Finance

Key Auto Group: Research and Development of Marketing Programs to Increase Awareness and Sales at Geographically Dispersed Dealerships, and to Promote Careers at the Company
Adviser: Peter Masucci

Christopher Carroll
Kyle Ferguson
Xiaotian Mao
Marketing and Finance

Bettina Caspersen
Jenna Jordan
Jacob Lewis
Junjiang Wang
Marketing

Joseph Flynn
Alanna Hogan
Mark Lyscars
Marketing and Management

Prevention Innovations Research Center: Design and Development of a Marketing Plan and Associated Programs to Launch and Introduce the uSafe Mobile Phone App
Adviser: Peter Masucci
Benita Daftari  
Marketing and Management  
Robert Emmons  
Shanley Groves  
Brian Johnson  
Sean McCarthy  
Han Nguyen  
Matthew Temme  
Marketing  
Christopher Murphy  
Marketing and Finance  
Hailey White  
Marketing and Information Systems and Business Analytics  
Port Authority of NH: Development of a Marketing Plan to Increase Awareness of and Interest in Using the Port by Regional Businesses  
Advisers: Brenna Cahill, Peter Masucci

Christopher Davis  
Taylor Fabricant  
David Fish  
Aleeza Goodman  
Nicholas Hutchison  
John Kelley  
Jeffrey Lertora  
Erika Mattson  
Brooke Poulin  
Marketing  
Grace Marsh  
Erin O’Shea  
Marketing and Finance  
Kelly McIntyre  
Marketing and Management  
U. S. State Department: Research and Development of a Marketing Campaign to Counter Violent Extremism  
Adviser: Peter Masucci

CaseyDupuis  
Christine Leaf  
Jiapeng Pan  
Marketing  
Ryan Fanning  
Marketing and International Business  
Leah Gamble  
Ian Szilagyí  
Marketing and Management  
Alec Hurd  
Marketing and Finance  
Lamprey Health Care: Research and Design of Marketing Programs to Increase Awareness and Use of this Regional Health Care Provider  
Advisers: Peter Masucci, Julia Pramberg

James Ellis  
Marketing and Finance  
Lauren Irish  
Sarah Tubbs  
Marketing and Management  
Ryan Jepson  
Casey McGuill  
Monica Napolitano  
Kathleen Teren  
Alyson Werth  
Jerome Wilkins  
Marketing  
Nicholas Parente  
Marketing and Entrepreneurial Studies  
UNH Police Department: Research and Development of Marketing Programs to Assist in the Recruitment of New Police Officers from Diverse Backgrounds  
Adviser: Peter Masucci

Paul College 125  
Marketing Workshop 2A  
Moderator: Peter Masucci  
Brenna Buckwalter  
Daniel DelGrosso  
Julia Hopkins  
Taylor Leggett  
Alexandra Weidman  
Marketing  
Erin Chesterton  
Marketing and Entrepreneurial Studies  
Meagan Covey  
Michael Deris  
Stephen Folan  
Chelsea Lalime  
Abbey Smith  
Marketing and Management  
Fantastic Fortune Cookies: Design and Development of Marketing Programs to Increase Awareness of the Company and Better Market to New, Targeted Consumers and Commercial Businesses  
Adviser: Peter Masucci

Andrew Chaput  
Sarah Juknievich  
Brooke Prestia  
June Kenneth Solomon  
Erin Wade  
Marketing  
Brendan Fraser  
Charles Harrington  
Marketing and Entrepreneurial Studies  
Diane King  
Marketing and Management  
Michael Raccio  
Garrett Sahlin  
Marketing and Finance  
Windsor Mountain Summer Camp: Development of Marketing Programs to Increase Awareness and Drive Early Camper Registrations  
Adviser: Peter Masucci
Paul College 135

Marketing Workshop 2B

Moderator: Peter Masucci

Andrew Albers
Hayden Knudson
Marketing
Kristin Letvinchuk
Charles McConville
Nash Osgood
Marketing and Finance
Ashley Pilotte
Marketing and Entrepreneurial Studies
Taylor Rodolico
Travis Smalley
Kerrianne Sullivan
Nathaniel Taylor
Marketing and Management

Monster Worldwide: Research and Development of a Marketing Program to Increase Awareness on the UNH Campus of This Online Job Search Site
Advisers: Thomas DelSignore, Peter Masucci

Christopher Birnie
Elsa Javenes
Alyssa Nugent
Kelci O’Rourke
Julia Ricciardi
Alexander Savastano
Marketing
James Halloran
Kellie McGoldrick
Finance and Marketing
April Phengdara
Marketing and International Business and Economics
Matthew Rozenberg
Marketing and Management
Autoworks: Design and Development of Marketing Programs to Increase Awareness and Attract New Customers to this Kittery, Maine, Auto Service Business
Adviser: Peter Masucci

Christoper Lang
Marketing and Management
Brianna Leclerc
Patrick Walsh
Marketing and Entrepreneurial Studies
Lyndsay Levin
Jillian McDonough
Emma Scarito
Marketing
Wyatt Powell
Marketing and Finance
UNH SHARPP: Research and Development of Marketing Programs to Increase Awareness and Understanding of Support Services Offered by SHARPP to Both Students and Parents
Advisers: Sydney Crogan, Peter Masucci, Samantha Raymond

Paul College 165

Multidisciplinary Oral Presentations

Shannon Cleary
Daniel DelGrosso
Kelci O’Rourke
Marketing
William Jackman
Marc Pagliocca
Michael Titlebaum
Finance and Entrepreneurial Studies
Ryan Kelly
Finance and Management
Kustom Kart
Adviser: Ludwig Bstieler

Cassidy Croci
Entrepreneurial Studies
Is Entrepreneurship a Discipline?
Adviser: Jeffrey Sohl

Matthew Haskell
Entrepreneurial Studies and Finance
The Entrepreneurial Trope
Adviser: Jeffrey Sohl

Kendre Rodriguez
Entrepreneurial Studies
Angel Groups: Developing a Regional Economic Development Strategy for Robust Seed Capital Ecosystems for Entrepreneurs
Adviser: Jeffrey Sohl

Paul College Courtyard &
Great Hall, 1-2:30 p.m.

Multidisciplinary Poster Presentations

Ahed Alhamdan
Accounting and Information Systems and Business Analytics
William Driscoll
Finance and Information Systems and Business Analytics
Edward Hoogasian
Entrepreneurial Studies and Information Systems and Business Analytics
David Labins
Matthew Mutuski
Information Systems and Business Analytics
Student Housing Price Analysis
Adviser: Roger Grinde

Elizabeth Assaf
Accounting
Rebecca Wuorio
Accounting and Finance
Taxation As It Relates to Politics, Small Business, & Corporate America
Adviser: John Hasseldine

Dylan Bartlett
Accounting
Governmental Financial Disclosures- A Study on the Timeliness of Comprehensive Annual Financial Reports
Adviser: Catherine Plante

Christopher Bohlig
Entrepreneurial Studies and Finance
Maxwell DesMarais
Marketing and Finance
Wendell Miller
Entrepreneurial Studies
Cram
Adviser: Ludwig Bstieler

John Bowen
Economics
A Cost-Effectiveness Comparison of Gun Control Legislation and Economic Policies
Adviser: Robert Mohr
Emma Carleton  
Haley Smith  
Information Systems and Business Analytics

Paige Tuller  
Information Systems and Business Analytics and International Business and Economics

David Veilleux  
Information Systems and Business Analytics and Entrepreneurial Studies

Peter Yarosewick  
Information Systems and Business Analytics and Finance  
Working out the Crowds at the Gym  
Adviser: Roger Grinde

Katelin Collins  
Accounting  
Balancing Act: Trends and Current Issues of Retaining and Promoting Women in Auditing

Adviser: John Hasseldine

Jacob Daniels  
John Wynters  
Information Systems and Business Analytics

Grace Patton  
Hospitality Management

Keegan Twomey  
Information Systems and Business Analytics and Management

Kaleigh Zukowski  
Information Systems and Business Analytics and Accounting  
UNH Parking Services Analysis

Adviser: Roger Grinde

Angela Deng  
Finance  
Determinants and Differences of Profitability of Domestic and Foreign Commercial Banks

Adviser: Wenjuan Xie

Oriana Eason  
Information Systems and Business Analytics and International Affairs

Julia Hird  
Yanxi Lu  
Information Systems and Business Analytics and Management

Karina Popkova  
Finance and Information Systems and Business Analytics  
Understanding Housing Dynamics at UNH

Adviser: Roger Grinde

Riley Ellis  
Timothy Prior  
Christopher Wingate  
Finance and Information Systems and Business Analytics

Kayla Kennedy  
Margaret McVeigh  
Information Systems and Business Analytics  
The Wildcat Fueling Station

Adviser: Roger Grinde

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Marketing  
The Effectiveness, Efficiency, and Ethics of Marketing Analytics

Adviser: M. Billur Akdeniz

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Marketing  
Healthy Eating Influences: Every Good Decision Starts with Good Intentions

Adviser: Lin Guo

Colin MacArthur  
Brendan Mantell  
Information Systems and Business Analytics

Kien Tran  
Entrepreneurial Studies and Information Systems and Business Analytics  
Red River Computer’s Growth Strategy

Advisers: Kholekile Gwebu, Justin Millette

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An Effectiveness Review of Section 404 of the Sarbanes Oxley Act (2002)

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Assessing the Business-to-Business Model of Destination Marketing Organizations in New England

Adviser: M. Billur Akdeniz

Ian Newcombe  
Information Systems and Business Analytics and Finance  
Mainframe Relevance in Modern IT

Adviser: Kholekile Gwebu

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The Influence of Movie Reviews on Consumers

Adviser: Bruce Pfeiffer

Brendan Phelan  
Marketing  
Motivational Factors for Playing Fantasy Sports

Adviser: Matthew O’Hern

Harrison Quast  
Entrepreneurial Studies  
The Personality of Success: A Study of Desirable Personality Traits of Entrepreneurs

Adviser: Jeffrey Sohl

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Finance  
The Economic Impact of Immigration on the Output-Mix: Results from Hurricane Mitch

Advisers: Karen Conway, Bruce Elmslie

Valeriu Tomescu  
Finance  
Natural Disasters and the Effectiveness of Foreign Aid on Economic Development

Adviser: Mihail Miletkov

Sarah Tubbs  
Marketing and Management  
Branding a Business School: The Paul College Experience

Adviser: Diane Devine
Paul College 165

Rines Student Angel Investment Fund

Moderator: Jeffrey Sohl

Kathryn Aiken
Business Administration
Brendan Beale
Finance and Accounting
Benjamin Bernstein
Management
Charles Cappetta
Finance and International Business and Economics
Ryan Casey
Devereux Evans
Andrew Gibson
Domenic Previte
Accounting and Finance
Samuel Collins
Global Trade and Finance
Tyler Cornelier
Peter Shellenberger
Finance and Information Systems and Business Analytics
Cassidy Croci
Kendra Rodriguez
Entrepreneurial Studies
Timothy Curran
Marketing and Entrepreneurial Studies
Jeffrey Duchesne
Entrepreneurial Studies and Management
Victoria-Lynne Forrest
Management and Accounting
Matthew Haskell
Entrepreneurial Studies and Finance
Sarah Keiran
Steven Lemay
Accounting
Matthew Kiley
Finance and Economics
Brianna Leclerc
Marketing and Entrepreneurial Studies
David Linton
Entrepreneurial Studies and Finance
Andrew McFarland
Information Systems and Business Analytics
Wyatt Powell
Marketing and Finance

Axel Ragnarsson
Finance and Entrepreneurial Studies
Steven Roberts
Finance and Management
William Tavers
Mechanical Engineering
Rines Student Angel Investment Fund
Advisers: Julianne Calef, Jeffrey Sohl

The Naked Arts—Creativity Exposed!

Act III

Friday, April 22
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.

Yussra Ebrahim
Sustainable Agriculture and Food Systems
Vigil: A Muslim's Story of Finding Peace in a Time of Terrorism
Advisers: Jaed Coffin, Thomas Payne

William Lombard
Molly McKay
Ina Nakuci
Brooke Snow
Theatre
Luna Goes to Mars: Creating a Storytelling Experience for Young Audiences
Adviser: Raina Ames

Teagan Yutrzenka
Art History
Viking Burial Ships and the Secrets They Hold
Adviser: Rebecca Karo

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

Bud Albin Challenge Round
Friday, April 22
1–4:30 p.m.
Peter T. Paul College Building

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.

College of Health and Human Services Grimes Award Competition

Friday, April 22
1:30 – 4 p.m.
Pettee Hall, Rooms G-10 and 106

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.

Samantha Brand
Occupational Therapy
Through My Eyes: The Effect on Family Life of Having a Sibling with Autism Spectrum Disorder as Experienced by a Typically Developing Adolescent
Adviser: Lou Ann Griswold
Rebecca Daniels  
Kinesiology  
Effect of Verbal Instructions on EMG During the Bench Press in Trained and Untrained Males  
Adviser: Summer Cook

Frances Donahue  
Kinesiology  
Year Two Results of a Helmetless-Tackling Training Intervention in Football  
Adviser: Erik Swartz

Caitlin Hanrahan  
Occupational Therapy  
Role Balance of Mothers with Children Receiving Early Intervention Services  
Adviser: Kerryellen Vroman

Emily Larson  
Kinesiology: Exercise Science  
Identification and Prevalence of Atrial Fibrillation ECG Markers in Collegiate Cross-Country Skiers  
Adviser: Tim Quinn

Maureen O’Brien  
Occupational Therapy  
Examination of the Effectiveness of a One-Week Camp on Social Interaction for Youth with an Autism Spectrum Disorder  
Adviser: Lou Ann Griswold

Rebecca Robichaud  
Social Work  
Chronic Pain and Mindfulness  
Advisers: Kelsey Sobel, Judy Stevens

Brittany Sampson  
Occupational Therapy  
Role of Social Supports and Home and Community Environment in Recovery from Hip and Knee Joint Replacement Surgery  
Adviser: Vidya Sundar

Colleen White  
Nursing  
Buurtzorg Nurses in the Netherlands: An Mini-Ethnography of Care  
Adviser: Gene Harkless

Psychology Department  
George M. Haslerud Undergraduate Research Conference

Friday, April 22  
1:30 - 5 p.m.  
McConnell Hall, Room 220

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.

Samantha Aiello  
Psychology  
The Effects of Parent-Child Talk on Children’s Memory  
Adviser: Michelle Leichtman

Alyssa Carlisle  
Psychology  
Assessing Public Opinion about a Sexual Assault Case Using the Comments Section of Online News Sources  
Adviser: Victoria Banyard

Kenneth Cashman  
Psychology  
Sleep Quality and Friend Support/Conflict  
Adviser: Rebecca Warner

Claire Czotter  
Psychology  
How Meditation-Like Activities Affect Well-Being  
Adviser: Rebecca Warner

Melissa Dongo  
Psychology  
Comparing Teachers’ Prevention Actions & Students’ Perceptions on Teachers’ Willingness to Help in Situations of Teen Dating Violence & Sexual Assault  
Adviser: Katie Edwards

McKenzie Dow  
Psychology  
Social Media and Well-Being: An Exploratory Study  
Adviser: Rebecca Warner

Marykate Mulcahy  
Psychology  
Predictors of Opioid and Heroin Abuse in a National Sample of Adolescents and Emerging Adults  
Adviser: Ellen Cohn

Katherine Seavey  
Psychology  
Rural Community Members’ Perceptions of Help-Seeking by Victims of Intimate Partner Violence  
Adviser: Katie Edwards

Ceara Tavares  
Justice Studies  
The Role of Emotions on Morality: How Self-Conscious and Unconscious Emotions Influence an Adolescent’s Everyday Morality  
Adviser: Ellen Cohn

Stephanie Yee  
Psychology  
Motivations for Expressing Public and Private Gratitude  
Adviser: Rebecca Warner
Honors English Undergraduate Research Conference

Friday, April 22
2–6 p.m.
Memorial Union Building, Theater I

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.

Yue Bai
English Teaching
Jie Zhao
English
How Rubrics Mediate ‘Culture Differences’ in Group Work between International Students and Domestic Students
Advisers: Marino Fernandes, Soo Hyon Kim

Amy Conte
English
Holocaust Literature
Adviser: Diane Freedman

Hannah Drake
International Affairs and English
After the Madness: A Continued Journey through Fiction Writing
Adviser: Clark Knowles

Jennifer English
English
I Heard It through the... Vine
Adviser: Douglas Lanier

Elizabeth Haas
English/Journalism
Blogging: How, Why, and Best Practices
Adviser: Lisa Miller

Sarah Milicia
English
The Mother-Daughter Relationship in Sylvia Plath’s and Anne Sexton’s Poetry
Adviser: Diane Freedman

Gabriella Pezzelli
Humanities
A Comparative Analysis of Traditional Film Noir to Modern Neo-Noir
Adviser: Matthias Konzett

Jessica Rosenthal
English and Women’s Studies
Edna the Oblivious Oppressor: An Intersectional Analysis of Privilege and Its Lack Thereof in The Awakening
Adviser: Sarah Sherman

Madison Schaefer
Justice Studies and English
The Joy of Melancholy
Adviser: Diane Freedman

25th Annual COLSA Undergraduate Research Conference

Oral Presentations

Saturday, April 23
8:15–10:30 a.m.
Memorial Union Building Theater II

Student Composers’ Concert

Friday, April 22
8–10 p.m.
Bratton Recital Hall
Paul Creative Arts Center

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

Katja Kleyensteuber
Music Education
Great, Scott! II - A Brass Quintet
Adviser: Michael Annicchiarico

Matthew Lush
Music
The Mice That Danced - for Solo Piano
Adviser: Ryan Vigil

Ian Nelson
Music
Quartet for Percussion: Drums of the Dead
Adviser: Andrew Boysen

Frank Noah
Music
A Day in Town
Adviser: Michael Annicchiarico

Robert Stevens
Music
Palindrome - for Trumpet, two Euphoniums and Tuba
Adviser: Christopher Kies

Joshua Buonpane
Environmental Sciences
An Examination of the Factors that Control Nitrate Retention in Man-Made Reservoirs
Adviser: Wilfred Wollheim

Adrien Flouros
Environmental Sciences
Oceanographic LiDAR as a Tool for Retrieving and Characterizing Particle Distributions in the Ocean
Adviser: Richard Zimmerman

Heidi Giguere
Wildlife and Conservation Biology
Change in Relative Population Abundance and Distribution of Hochstetter’s Frog (Leiopelma hochstetteri) in Maungatautari Ecological Island, New Zealand
Adviser: Ria Brejaart
Christian Kapstad
Biochemistry, Molecular and Cellular Biology
Characterization of Rod and Cone P Affinity for PDE6 Catalytic Dimer and Efficiency of Activation by Transducin
Adviser: Rick Cote

Allison Onofrio
Neuroscience and Behavior
The Effect of the Earth’s Magnetic Field on the Resting Position of Canis familiaris
Adviser: Leslie Curren

Denyelle Surrell
Wildlife and Conservation Biology
A Comparative Analysis of the Nest Structure of Saltmarsh, Nelson’s, and Saltmarsh-Nelson’s Hybrid Sparrows
Adviser: Adrienne Kovach

Stephanie Sykes
Marine, Estuarine and Freshwater Biology
The Effect of Ocean Acidification on the Feeding Behavior of the American Lobster (Homarus americanus)
Advisers: Elizabeth Morrissey, Winsor Watson

Laura Van Beaver
Neuroscience and Behavior
Effects of Nanoparticles for DNA Delivery into Animal, Plant, and Bacterial Cells
Advisers: Subhash Minocha, Fabio Vianello

25th Annual COLSA Undergraduate Research Conference

Poster Presentations

Saturday, April 23
10:45 a.m.–12:15 p.m.
Memorial Union Building
Granite State Room

Student presentations at the COLSA URC are based on research conducted in any of the departments within the College of Life Sciences and Agriculture.

Adam Aasen
Cynthia Holler
Hayley Robertson
Neuroscience and Behavior
Revealing the Mechanics behind Single Cell Recording: Assembly of Drivable Multi-Tetrode Arrays
Adviser: Brett Gibson

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### Chemistry Department Poster Exhibition

**Friday, May 6**  
3–4 p.m.  
**Parsons Hall, Southwest 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.

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Ann Manchester Kelley
Nursing Inquiry Day

Tuesday, May 10, 2016
8 a.m.–2 p.m.
Memorial Union Building
Granite State Room

This event features a program of scholarly presentations by undergraduate Honors students and Graduate Program in Nursing students.

Caitlin Doonan
Nursing
Exploring the Healthcare Experiences of LGBTQ+ College Students
Advisers: Joyce Cappiello, Joanne Samuels

Emily Dwyer
Nursing
The Impact of an Epilepsy Self-Management Program on Health Care Utilization
Advisers: Susan Fetzer, Joanne Samuels

Rebecca Pettis
Nursing
Describing the Experience of an Older Adult with Chronic Pain and the Use of a Therapeutic Music Intervention: A Case Study
Adviser: Elizabeth Evans

Colleen White
Nursing
Buurtzorg Nurses in the Netherlands: A Mini-Ethnography of Care
Adviser: Gene Harkless

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

Championship Round

Wednesday, May 11
1–6 p.m.
Peter T. Paul College Building
G75 Auditorium

This competition takes students out of the classroom and into the real world. Students are required to research and prepare strategies for commercializing new products and services, which they present to a panel of industry judges. Prizes are awarded for the most feasible and fundable approaches for starting, acquiring, or expanding a business venture.
The UNH Undergraduate Research Conference has grown to become a signature event at the University 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 network of many community members across campus. Here, we acknowledge these individuals and campus units and thank them for helping to make the 2016 URC happen.

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Anne Broussard, CHHS Grimes Award Competition
Pablo Chavajay and Jill McGaughy, Psychology Department George M. Haslerud URC
Sarah Daigle and Roger Grinde, Paul College URC
Molly Doyle and Laura Perille, Parents Association Undergraduate Research Symposium
Cathy Frierson, History Department URC
Cynthia Giglure, Thompson School Student Showcase
Rob Haskins, Naked Arts—Creativity Exposed!
Chris Kies, Student Composers’ Concert
Delia Konzett, Honors English URC
Michael Merenda and Cynthia Nizzari-McClain, Paul College Holloway Prize Competition; Nelson Poster Competition
Cari Moorhead and Myles Lynch, Graduate Research Conference
Dan Reagan and Mary Young, UNH Manchester URC
Subhash Minocha and Pamela Wildes, 25th Annual COLSA URC
Cindi Rohwer, Chemistry Department Poster Exhibition
Tamara Rury and Sean Stewart, Paul College FIRE URC
Joanne Samuels, Ann Manchester Kelley Nursing Inquiry Day
Leah Woods, 2015 Senior B.A. & B.F.A. Art Exhibition and M.F.A. Thesis Exhibition

Thanks to the 2016 URC Planning Committee (as well as the many individuals who served on subcommittees):
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Molly Tetreault, Director, Connors Writing Center; Adjunct Faculty, English Department
Paul Tsang, Faculty Director, Hamel Center for Undergraduate Research; Professor, Molecular, Cellular and Biomedical Sciences
Pam Wildes, Co-Chair, COLSA URC
Mary Young, Project Manager, Services Enhancement Initiatives, Dean’s Office, UNH Manchester

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